

Human/Machine Interfaces

Magelis™ Industrial PC and Display

Catalog

June 2015



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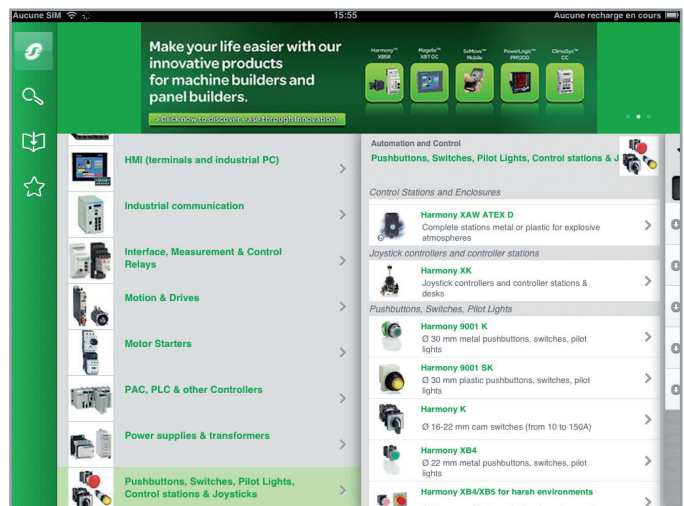
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Magelis™ Industrial PCs

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Industrial PCs

Magelis™ iPCs for automation

Magelis HMIPSP S-Panel PC, HMIP Panel PC, HMIBS S-Box PC, HMIB Box PC and HMIDID iDisplay

1

Magelis Industrial PCs

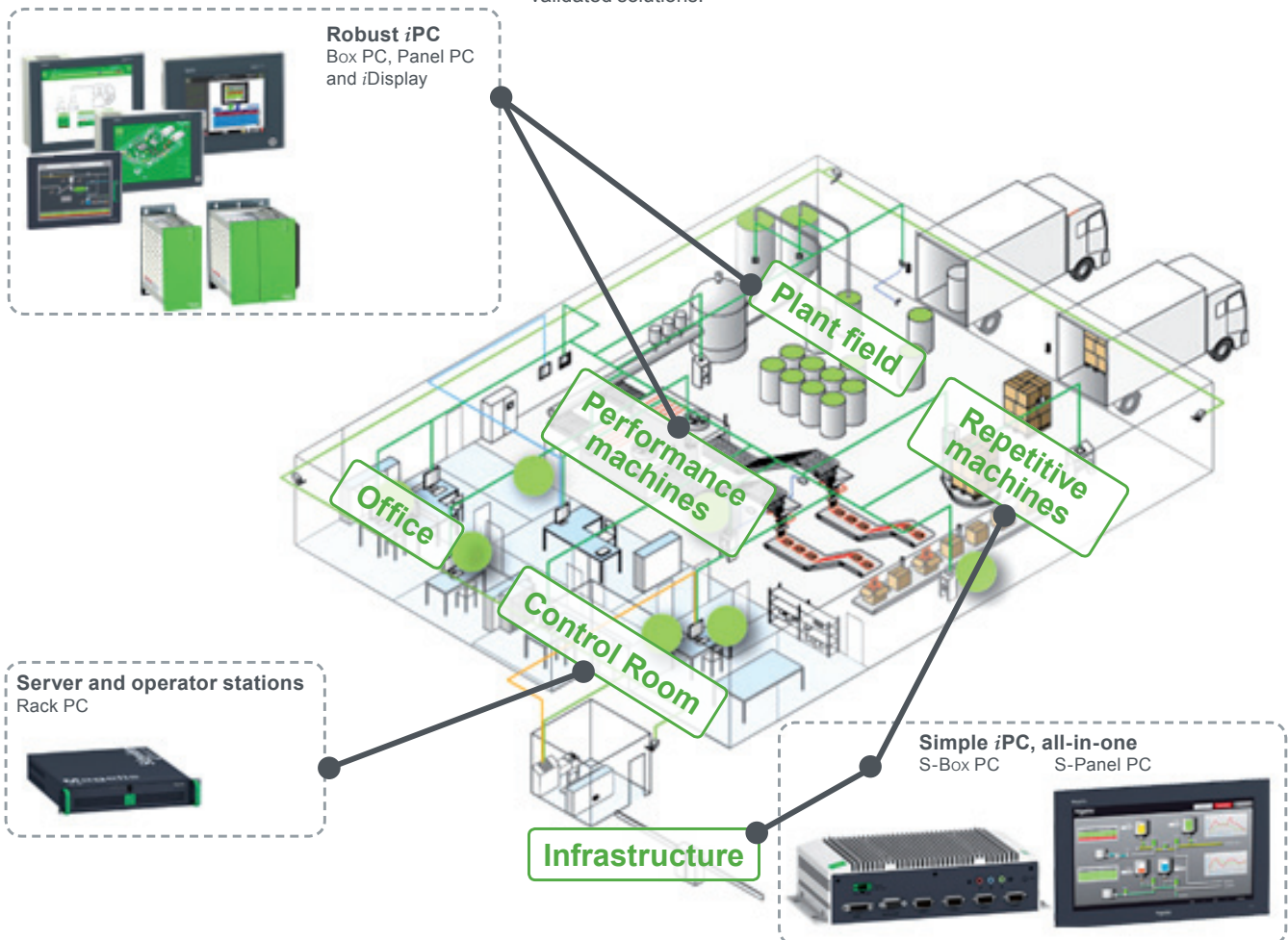
S-Panel, Panel, S-BOX, BOX, Rack and iDisplay

As a global specialist in energy management and industrial automation, Schneider Electric offers integrated solutions across multiple market segments with the Magelis iPC product range:

- Robust and certified Magelis Panel PC (Optimum, Universal and Performance) and Box PC (Universal and Performance) for plants and performance machines. Magelis Panel PC have an optional stainless steel bezel for demanding applications.
- Simple Magelis S-Box PC (Optimized and Universal) and S-Panel PC (Performance) for repetitive machines and infrastructures.
- Magelis Rack PC (Optimized, Universal and Performance) for 19" enclosures in control rooms and labs.
- Magelis iDisplay as industrial remote monitors for Magelis iPC or third-party PCs.

Depending on the model, Magelis iPC products offer various options that can be used in Maintenance-free, Harsh, and Standard industrial environments.

Magelis iPCs run on Microsoft operating systems for seamless integration into IT structures. They support Schneider StruXture ware software for complete tested and validated solutions.



Magelis HMIP Panel PC, HMIB Box PC and HMIDID iDisplay

Rugged for various environments

The Magelis Panel PC, Box PC and iDisplay are rugged products with maintenance-free models (no fan, static storage), high-availability options (RAID HDD and battery backup), and integrated system monitoring. Their resistance to temperature, vibration and shock allows them to operate continuously in extremely difficult environments.

In addition, Magelis iPCs offer worldwide long-term availability, ease of substitution for new models and extended time for repair service.

+ Magelis iPCs → Robust & certified for automation applications

Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC, HMIB Box PC and
HMIDID iDisplay

Certified for use in the most demanding automation systems, including industrial control equipment, hazardous locations, and marine applications.

Optimum, modular or made-to-order models: you can choose an iPC that suits your requirements.

Magelis HMIP Panel PC, HMIB Box PC and HMIDID iDisplay (continued)

Certified for automation systems

Depending on the model, Magelis Panel PC, Box PC and iDisplay are certified with the following:

- cULus (UL 508, CSA 22.2 no. 142), Industrial Control Equipment
- cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n° 213)
- ATEX II 3 Gas and Dust zone 2/22 in explosive atmospheres
- Germanischer Lloyd (Bridge Class) for marine applications, C-Tick, GOST

Optimized Magelis Panel PC

The Optimized Panel PCs are aesthetically and ruggedly designed for simple applications requiring features such as maintenance-free, entry-level CPU, limited connectivity, static cards for storage, and Windows Embedded operating system.



Magelis Panel PC (Optimum)

- Resistive touch screen in 10", 15" or 15" stainless steel versions, 16 M colors, IP 65, LED backlight
- Intel ATOM Z510 1.1 GHz fanless, 1 GB RAM
- 2 Gigabit Ethernet, 1 RS-232, 2 USBs + 1 USB on front panel
- Compact Flash (SLC technology), 1 SD card slot

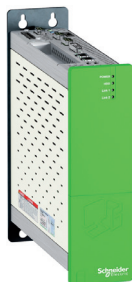
Modular and flexible Magelis Panel and Box PCs

The modular design of Magelis Universal and Performance iPCs provides a complete and coherent range of referenced products. In addition, this allows Magelis Panel and Box PCs to be made to order.



Magelis Panel PC (Universal or Performance)

- Resistive touch screen in 12", 15", 15" stainless steel or 19" versions, 16 M colors, IP 65, LED backlight
- Intel ATOM N270 1.6 GHz, Core™ 2 Duo 2.26 GHz or iCore™
- 0 to 2 PCI/PCI Express slots, removable drives
- 2 Gigabit Ethernet, 4 USBs + 1 USB on front panel, 1 DVI, up to 4 serial lines



Magelis Box PC

- 2 Gigabit Ethernet, 4 USBs on front panel, up to 2 DVI and 3 serial lines
- Intel ATOM N270 1.6 GHz or Core 2 Duo 2.26 GHz
- 1 to 5 PCI/PCI Express slots
- Removable drives: Compact Flash (SLC), Flash Disk (SSD) or HDD and DVD-RW

Magelis iDisplay screens

Magelis iDisplay screens (12" and 15" sizes) are robust monitors with an excellent screen size/dimensions ratio and can be used in conjunction with industrial PCs. They have the same cut-out dimensions as Magelis Panel PCs and Magelis HMI operator panels, which makes it easy to upgrade installations.



Magelis iDisplay

- 12"/15" color TFT LCDs
- 1 USB on front panel, 1 VGA video, 1 DVI-D video, 1 USB, 1 RS-232C
- IP 65 and Nema 4X indoor for the front of the screen, IP 20 for the sides and back of the screen

Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PC, HMIBS S-Box PC and HMIR Rack PC

1

Magelis HMIPSP S-Panel PC

Simple design

- Simple sophisticated all-in-one hardware
- High-performance iCore CPU without fan
- Default storage drive slots and Mini PCIe slots for optional interfaces
- Configurations on request and front panel customization for application needs
- Slim with less than 57 mm/2.24 in. depth



Magelis S-Panel PC (Performance)

- Intel i3-4010U Dual core 1.7 GHz, fanless, 8 GB DDR3 RAM
- 1 Mini PCI Express full slot
- 2 Gigabit Ethernet, 2 COM (RS-232/422/485, RS-232), 2 USB 3.0, 1 HD audio port, 1 HDMI video port

Smartphone or tablet-like navigation

- Wide multi-touch screens with IP 66, 7H hardness and anti-scratch front panels
- Tap, scroll, pinch and drag with 5 point multi-touch gestures
- Fluid, natural and intuitive interface powered with Windows 8.1 operating system

Improved customer productivity

- Performing Intel CPU Core i3 4th generation and 8 GB DDR3 RAM
- Ready-to-run Schneider Electric and third-party softwares
- Link to IT systems with dual Gigabit Ethernet ports

Magelis S-Box PC is just enough for applications in repetitive machines and infrastructures requiring the Windows® operating system.

Magelis HMIBS S-Box PC

All-in-one simple design

- Easy choice and quick ordering with only 2 versions (Optimized and Universal)
- Wall mounting with small footprint and downsized enclosure
- Simple installation with maintenance-free non-rotating parts
- In solutions that are tested, validated and supported by Schneider



Magelis S-Box PC (Optimized)

- Intel ATOM N270 1.6 GHz, fanless, 2 GB RAM
- Mini PCI Express® slot (1 half-size)
- 1 Gigabit Ethernet, 2 RS-232, 4 RS-232/422/485, 2 USB
- 8 GB Compact Flash card, Compact Flash slot and internal SATA slot for HDD/SSD



Magelis S-Box PC (Universal)

- Intel ATOM N2600 1.6 GHz, fanless, 2 GB RAM
- Mini PCI Express slot (1 full-size)
- 3 Gigabit Ethernet, 2 RS-232, 5 USB
- 8 GB Compact Flash card, additional internal SATA slot for HDD or SSD

Magelis Rack PC is a complete range that meets the various needs of Plant Struxture architecture, from dedicated applications in new economies and operator stations to large Engineering and SCADA servers.

Magelis HMIR Rack PC

One-stop shopping and easy installation

Magelis HMIRs offer one-stop shopping for a complete plant solution that has been tested and validated by Schneider Electric, along with Plant Struxture software Vijeo Citect and PES Engineering. Magelis HMIRs can be easily installed in Actassi 19" enclosures and connected to Magelis iDisplay for display screen.



Magelis Rack PC 2U (Optimized) (1)

- Intel iCore G540 2.5 GHz or G850 2.9 GHz, 2 GB RAM
- 2 PCI Express (x8) + 1 PCI
- 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port
- 1 internal SATA3 slot and 2 external SATA2 trays, 1 DVD-RW drive

(1) Rack 2U or 4U is a unit used to measure the height of a device to be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

+ Magelis S-Box → PCs with simplicity and serenity

Magelis HMIR Rack PC (continued)



Magelis Rack PC 2U (Universal) (1)

- Intel i3-2120 3.3 GHz, 4 GB RAM
- 2 PCI Express (x16) + 1 PCI
- 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port



Magelis Rack PC 4U (Performance) (1)

- Intel Xeon 1225 3.1 GHz, 4/8 GB RAM
- 4 PCI Express (x16) + 3 PCI
- 2 Gigabit Ethernet, 2 RS-232 (+ 4 optional), 6 USB, 1 VGA, 1 DVI and 1 display port
- Dedicated models to run PES Engineering and Server operating systems

Hot swappable trays and low noise fans

All Magelis Rack PCs have hot swappable front trays for easy replacement of storage devices. They can also be used for redundant RAID HDDs configured with internal Intel software.

The low noise in control rooms due to embedded fan speed control is a boon to operators.

Ease of IT integration

StruXture ware software bundles



Vijeo Citect



Intelligent Data Service



Vijeo Designer



Vijeo XD

Magelis iPCs support the following Schneider software bundles:

- HMI software: Vijeo Designer Run Time with IDS suite and Vijeo XD Run Time interacting with control software (e.g., SoMachine protocol for PLCs and Pac Drive driver for Motion controllers)
- SCADA software with Vijeo Citect, recommended with SSD drives due to a greater number of read/write operations on storage drives
- SCADA web clients on models with Compact Flash storage drives as "thin clients"
- PLC Programming software (Unity and SoMachine) for field maintenance operations (requires minimum 2 GB RAM)
- Engineering software with PlantStruxture Process Expert for Magelis Rack PC

Integration in IT structures

Magelis iPCs run on Microsoft operating systems allowing:

- Connection of PC peripherals and large data storage
- Ease of connection to computers and databases
- Simultaneous operation of several programs
- Server applications on Magelis Rack PC

Depending on the iPC models, a wide choice of compatible operating systems are available.



(1) Rack 2U or 4U is a unit used to measure the height of a device to be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

Magelis iPCs support Schneider StruXture ware software for complete tested and validated solutions.

2 built-in Ethernet ports on Magelis iPCs separate the IT and automation data flow, reinforcing the overall availability of the system.

Industrial PCs
Magelis™ iPCs for automation
Magelis HMIPSP S-Panel PC and HMIP Panel PC

Type of Magelis iPC		Magelis HMIPSP S-Panel PC	Magelis HMIP Panel PC
Industrial environments		Simple Performance range	Robust Optimum range
		Standard	Maintenance-free
			
Fanless		★★★★★	★★★★★
Non-rotative storage drive		★★★★★	★★★★★
Sizes of color touch screen and front panel bezel material		☐ 15" multi-touch capacitive ☐ 19" multi-touch capacitive	☐ 10.4" Aluminum bezel ☐ 15" Aluminum or Stainless steel bezel
CPU (1)	Processor	Intel i3-4010U Dual Core (1.7 GHz) iCore 4 th generation	Intel® ATOM™ Z510 (1.1 GHz)
	PCI slot	1 Mini PCIe slot full size	0
	Storage	Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF or HDD hard disk ≥ 500 GB Enterprise 24/7	Compact Flash card (SLC technology) and integrated SD card reader
	RAM	8 GB	1 or 2 GB
Operating system		None or WES 7 Premium SP1 (64-bit) or Win 8.1 Industry (64-bit Multi-language) (3)	Windows® Embedded Standard 2009
Supply voltage	Aluminum bezel versions	24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.	24 V $\pm$
	Stainless steel bezel versions		—
Standards and certifications		☐ CE ☐ cULus (UL IT 60950, CSA IT 60950) ☐ C-Tick ☐ RCM ☐ EAC (4) ☐ CCC ☐ FCC (part 15 EMC Class A)	☐ CE ☐ cULus and cULus Haz Loc ☐ ATEX II 3 Gas and Dust Zone 2/22 (Optimum range 15" Stainless steel bezel version only) and ATEX II 3 Dust Zone 22 (Universal range 15" Stainless steel bezel version only) ☐ EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...
Marine certification		—	Bridge Class (only 24 V $\pm$ Magelis Panel PC with Aluminum bezel) Requires additional power supply filter HMIYLFIMAR11.
Software		☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ. ☐ Vijeo Citect DVD is only for installation, depending on the model. Software activation license to be ordered separately.	☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ. ☐ Vijeo Citect, depending on the model.
References	Aluminum bezel versions	HMIPSP●752D1●01 HMIPSP●952D1●01	HMIPWC●●●●●●●●
	Stainless steel bezel versions	—	HMIPVC7D0E01
Pages		2/2 and 2/3	3/2 and 3/3
Made-to-order configuration		See configured Magelis S-Panel PC on page 2/9	See configured Magelis Panel PC on page 3/27

(1) For other options available (interface for backup battery, 3rd serial port, etc.) in made-to-order configuration, see pages 3/27 (Magelis Panel PC) and 5/10 (Magelis Box PC).
(2) 12" Aluminum bezel models require additional SRAM interface HMIYPINSRAM61.

Magelis HMIP Panel PC			
Robust Universal range		Robust Performance range	
Maintenance-free	Standard	Maintenance-free or Harsh	Standard
			
★★★★★	★★★★★ (15" and 19" only)	★★★★★ (12" only)	—
★★★★★	—	★★★★★	—
☐ 12" Aluminum bezel ☐ 15" Aluminum or Stainless steel bezel ☐ 19" Aluminum bezel		☐ 12" Aluminum bezel ☐ 15" Aluminum or Stainless steel bezel ☐ 19" Aluminum bezel	
Intel iCore™ 827E low power or Intel ATOM N270 (1.6 GHz)		Intel i3 3217UE Dual Core low power or Core 2 Duo P8400 (2.26 GHz)	
0 or 2		0 or 2	
Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF	Hard disk	SSD flash disk with 2 million hours MTBF	Hard disk
2 GB		4 GB	
Windows Embedded Standard 2009 or Windows XP SP3 or Windows 7 Ultimate 64-bit Professional	Windows XP Professional SP3	Windows 7 Ultimate 64-bit	
24 V $\pm$ or 100...240 V $\sim$		24 V $\pm$ or 100...240 V $\sim$	
24 V $\pm$		100...240 V $\sim$	
☐ CE ☐ cULus ☐ cULus Haz Loc ☐ ATEX II 3 Gas and Dust Zone 2/22 (Optimum range 15" Stainless steel bezel version only) and ATEX II 3 Dust Zone 22 (Universal range 15" Stainless steel bezel version only) ☐ EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...		☐ CE ☐ cULus ☐ cULus Haz Loc ☐ ATEX II 3 Dust Zone 22 (Stainless steel bezel versions only) ☐ EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)...	
☐ Bridge Class (only 24 V $\pm$ Magelis Panel PC with Aluminum bezel) Requires additional power supply filter HMIYLFIMAR11.	—	—	
☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ. ☐ Vijeo Citect, depending on the model.		☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ. ☐ Vijeo Citect, depending on the model.	
HMIPUC●●●●●●●●	HMIPUH●●●●●●●●	HMIPPF●●●●●●●●	HMIPPH●●●●●●●●
HMIPUF●●●●●●●●			
HMIPTF7D2P01	HMIPTH7D2P01	—	HMIPRH7A2701
3/6 and 3/7, 3/14 to 3/17		3/15 to 3/17	
See configured Magelis Panel PC on page 3/27		See configured Magelis Panel PC on page 3/27	

(3) Win 8.1 requires user activation.
(4) EAC certification will be available in 4th quarter, 2015.

Industrial PCs
Magelis iPCs for automation
Magelis HMIBS S-Box PC and HMIB Box PC

Type of Magelis iPC		Magelis HMIBS S-Box PC			
Industrial environments		Optimized range	Universal range		
		Standard			
					
Fanless		★★★★★	★★★★★	—	—
Non-rotative storage drive		★★★★★	★★★★★	—	★★★★★
Sizes of color touch screen and front panel bezel material		Compatible with all screens of Magelis iDisplay range (2)			
CPU (1)	Processor	IntelATOM N270 (1.6 GHz)	IntelATOM N2600 (1.6 GHz)		
	PCI slot	1 half size Mini PCI Express® slot	1 full size Mini PCI Express slot		
	Storage	Compact Flash card	CFast card	SSD with 5-year Intel warranty and 2 million hours MTBF	—
	RAM	2 GB	4 GB		
Operating system		Windows Embedded Standard 2009	Windows 7 32 bits (WES 7 Premium)		—
Supply voltage		9...36 V ---	12...24 V ---		
Standards and certifications		☐ CE ☐ cULus ☐ EAC ☐ CCC			
Marine certification		—			
Software	Vijeo Designer and Vijeo XD RT Demo	☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.			
	Bundle (validated and supported)	—			
References		HMIBSOCND1E01	HMIBSUCND1W01	HMIBSUSND1W01	HMIBSU0ND1001
Pages		4/2 and 4/3			

(1) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.
(2) For more information, refer to "Chapter 7: Magelis iDisplay".

Magelis HMIB Box PC			
Universal range		Performance range	
Maintenance-free	Standard	Harsh	Standard
			
★★★★★	—	—	—
★★★★★	—	★★★★★	—
Compatible with all screens of Magelis iDisplay range (2)			
Intel ATOM N270 (1.6 GHz)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset	
1 or 2		2 or 5	
Compact Flash card (SLC technology) or SSD flash disk with 2 million hours MTBF	Hard disk	SSD flash disk with 2 million hours MTBF	Hard disk
2 GB		4 GB	
Windows Embedded Standard 2009 or Windows XP Professional SP3	Windows XP Professional SP3	Windows 7 Ultimate 64-bit	
24 V 			
☐ CE ☐ cULus ☐ cULus Haz Loc ☐ ATEX II 3 Dust Zone 22 ...			
Bridge Class	—		
☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTCZLSPAZZ. ☐ Vijeo Citect, depending on the model.			
—			
HMIBUCN●●●●● HMIBUFN●●●●●	HMIBUHN●●●●●	HMIBPFD●●●●●	HMIBPHD●●●●●
5/2 and 5/3			



Type of Magelis iPC	Magelis HMIR Rack PC
	Optimized PC 2U range (3)
Industrial environments	Control rooms and labs



Fanless		–	
Non-rotative storage drive		–	
Sizes of color touch screen and front panel bezel material		Compatible with all screens in the Magelis iDisplay range (2)	
CPU (1)	Processor	Intel iCore G540 (2.5 GHz)	Intel iCore G850 (2.9 GHz)
	PCI slot	2 PCI Express (x8) + 1 PCI	
	Storage	No storage drive or 1 HDD	1 HDD
	RAM	2 GB DDR3	
Operating system		None or Windows 7	Windows 7
Supply voltage		110...240 V ~ (300 W single power supply)	
Standards and certifications		☐ CE ☐ cULus ☐ EAC ☐ CCC	
Software	Vijeo Designer and Vijeo XD RT Demo	☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	
	Bundle (validated and supported)	–	
References		HMIRXOHC A3●01	HMIRSOHP A3W01
Pages		6/2 and 6/3	

(1) Require Vijeo Designer V6.2 SP2 or further to build and download HMI application.
(2) For more information, refer to "Chapter 7: Magelis iDisplay".
(3) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

Magelis HMIR Rack PC	
Universal PC 2U range (3)	Performance PC 4U range (3)
Control rooms and labs	Control rooms and labs



–	
–	
Compatible with all screens in the Magelis iDisplay range (2)	
Intel i3-2120 (3.3 GHz)	Intel Xeon™ Quad core E3-1225 (3.1 GHz)
2 PCI Express (x16) + 1 PCI	Up to 7 slots: 4 PCI Express (x16) + 3 PCI
1 HDD or 1 SSD	1 HDD, 2 HDD RAID or 1 SSD
4 GB DDR3	4 GB DDR3, 4 GB ECC or 8 GB DDR3
Windows 7	Windows 7 or Windows Server 2008 Standard R2 or Windows Server 2012 R2
110...240 V ~ (300 W single power supply)	110...240 V ~ (500 W single or redundant power supply)
☐ CE ☐ cULus ☐ EAC ☐ CCC	
☐ Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	
No or Vijeo Citect DVD for SCADA applications	No or Vijeo Citect DVD or PES leaflet
HMIRSU●3A3701	HMIRSP●X●6●●●
6/2 and 6/3	



Magelis HMIPSP S-Panel PC

Selection guide page 2/2

Presentation

Overview of the range

- Magelis HMIPSP Performance page 2/4

HMI software support for Magelis HMIPSP page 2/4

Description

Magelis HMIPSP Performance: 15" and 19" page 2/5

References

Magelis HMIPSP Performance: 15" Multi-touch screen page 2/6

Magelis HMIPSP Performance: 19" Multi-touch screen page 2/6

Separate components page 2/7

Configured To Order: Magelis HMIPSP page 2/9

Industrial PCs
Magelis iPCs for automation
Magelis HMIPSP S-Panel PC
Performance range with 15" and 19" touch screens

Type		Simple panel PC Performance range - 15" touch screen		
				
Screen	Type	15" wide LCD 5 point capacitive multi-touch LED screen		
	Size	15.6" wide		
	Resolution	HD WFXGA 1366 x 768, 16.7 million colors		
	Degree of protection	IP 66, Nema 4X indoor, 7H hardness and anti-scratch front panels		
	View angle	Vertical 160°, horizontal 170°		
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F		
CPU	Processor	Intel i3-4010U dual-core (1.7 GHz) iCore 4 th generation (low power fanless)		
	Expansion slot	1 Mini PCI Express full size slot with 1 optional interface slot (1)		
	Default storage drive	–	SSD flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7
	Storage drive slots	1 CFast slot 1 x 2.5" SATA HDD/SSD storage slot, user accessible		
	RAM (2)	8 GB DDR3		
	Integrated ports	2 Ethernet 10/100/1000 Mbps (Eth1 supports AMT (active management technology)) 2 USB 3.0 1 RS-232, 1 RS-232C/422/485 1 HDMI port 1 Audio out 3 SMA connectors for the external antennas		
Operating system		–	Win 8.1 Industry (64-bit Multi-language) (5)	
Power supply	Supply voltage	24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.		
	Power consumption	18 W typical, 60 W max.		
Dimensions	Overall (W x H x D)	419.7 x 269 x 56.7 mm (16.52 x 10.59 x 2.23 in.)		
	Mounting cut-out (W x H) with Snap hook (6)	412.4 x 261.7 mm (16.24 x 10.30 in.)		
Temperature	During operation	0...55 °C/32...131 °F	0...55 °C/32...131 °F	0...45 °C/32...113 °F
	During storage	-20...60 °C/-4...140 °F		
Vibration resistance	During operation	1 g from 5...500 Hz with HDD		
Standards and certifications		CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC (8), CCC, FCC (part 15 EMC Class A)		
HMI Software	Vijeo XD (3)	–	Yes	Yes
	Vijeo Citect (4)	–	Yes	–
References		HMIPSP0752D1001	HMIPSPS752D1801	HMIPSPH752D1801
Pages		2/6		

(1) See accessories (page 2/7)for additional ports through Mini PCIe and optional interface.
(2) 8 GB DDR3 RAM is not user extendable.
(3) Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ.
(4) Vijeo Citect DVD is only for installation. Software activation license to be ordered separately.
(5) Win 8.1 requires user activation.
(6) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

Simple panel PC Performance range - 15" touch screen		Simple panel PC Performance range - 19" touch screen		
				
15" wide LCD 5 point capacitive multi-touch LED screen		19" wide LCD 5 point capacitive multi-touch LED screen		
15.6" wide		18.5" wide		
HD WFXGA 1366 x 768, 16.7 million colors				
IP 66, Nema 4X indoor, 7H hardness and anti-scratch front panels				
Vertical 160°, horizontal 170°				
Life span > 50,000 hrs @ 25 °C/77 °F				
Intel i3-4010U dual-core (1.7 GHz) iCore 4 th generation (low power fanless)				
1 Mini PCI Express full size slot with 1 optional interface slot (1)				
CFast card ≥ 16 GB	–	SSD flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7	CFast card ≥ 16 GB
1 CFast slot				
1 x 2.5" SATA HDD/SSD storage slot, user accessible				
8 GB DDR3				
2 Ethernet 10/100/1000 Mbps (Eth1 supports AMT (active management technology))				
2 USB 3.0				
1 RS-232, 1 RS-232C/422/485				
1 HDMI port				
1 Audio out				
3 SMA connectors for the external antennas				
WES 7 Premium SP1 (64-bit) (7)		–	Win 8.1 Industry (64-bit Multi-language) (5)	WES 7 Premium SP1 (64-bit) (7)
24 V $\pm$ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.				
18 W typical, 60 W max.		28 W typical, 60 W max.		
419.7 x 269 x 56.7 mm (16.52 x 10.59 x 2.23 in.)		488 x 411.6 x 56.7 mm (19.21 x 16.20 x 2.23 in.)		
412.4 x 261.7 mm (16.24 x 10.30 in.)		479.3 x 300.3 mm (18.87 x 11.82 in.)		
0...55 °C/32...131 °F		0...55 °C/32...131 °F	0...45 °C/32...113 °F	0...55 °C/32...131 °F
-20...60 °C/-4...140 °F				
1 g from 5...500 Hz with HDD				
CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC (8), CCC, FCC (part 15 EMC Class A)				
Yes	–	Yes	Yes	Yes
–	–	Yes	–	–
HMIPSPC752D1W01	HMIPSP0952D1001	HMIPSPS952D1801	HMIPSPH952D1801	HMIPSPC952D1W01
2/6	2/7			

(7) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:
- Word/Excel/Power Point Viewer
- Framework .Net 3.5
- Web browser
(8) EAC certification will be available in 4th quarter, 2015.

Industrial PCs

Magelis™ iPCs for automation

Magelis HMIPSP S-Panel PC

Performance range with 15" and 19" touch screens

2



Magelis S-Panel PC 15" and 19"

Presentation

Magelis HMIPSP S-Panel PCs are performance PCs with a simple all-in-one design. These 15"/19" wide PCs with a high-resolution display and multi-touch features enhance the user experience. The i3 Intel Core CPU 4th generation processor without rotating fan provides good performance for a wide range of software. They are mainly used in repetitive machines and infrastructure applications.

Magelis S-Panel PCs offer increased application and operator efficiency with:

- Wide HD TFT screens with 16 M colors and capacitive multi-touch technology
- LED backlight and IP 66 protection including anti-scratch front
- Slim panels with depth < 57 mm/2.24 in.
- Maintenance-free non-rotating parts and operation up to +55 °C (or up to +45 °C for models with HDD)
- Integration of software applications such as HMI Vijeo XD software, Vijeo Citect, SCADA, and third-party Windows software
- Expansions with optional interfaces based on Mini PCIe (Com, USB, audio, networks, etc.)
- Available with WES 7, Windows 8.1 or without an operating system
- Configurations on request for more option capabilities, for example, configuration for Windows 7 operating system

Overview of the range

Magelis HMIPSP Performance range

Magelis HMIPSP Performance PCs with 15" and 19" wide multi-touch screens are equipped with a fanless Intel® i3-4010U Dual core processor (1.7 GHz) and DDR3 RAM.

This range, with 8 reference models, provides:

- 8 GB DDR3 RAM, default mounted
- Connection ports: 2 USB 3.0, 2 COM (RS-232, RS-232/422/485), 2 Gigabit Ethernet, 1 HD audio port, 1 HDMI video port and 3 SMA for antennas
- Expansion: 1 mini PCI Express® full slot with 1 optional interface slot
- Power supply: 24 V DC. AC power supply with external AC/DC power adapter

HMIYSPMAC1

The operating systems and storage devices for 15" and 19" touch screens are:

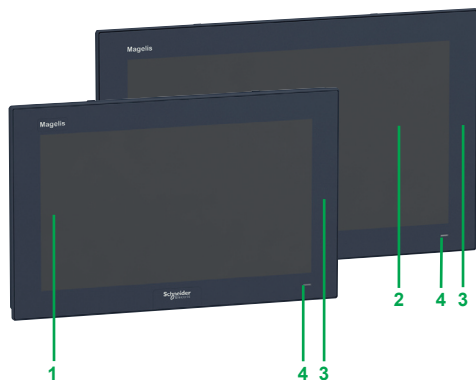
- **HMIPSPC752D1W01** and **HMIPSPC952D1W01**:
 - Operating system: WES 7 Premium SP1 (64-bit)
 - Default storage device: 16 GB CFast card
- **HMIPSPS752D1801** and **HMIPSPS952D1801**:
 - Operating system: Windows 8.1 Industry SP1 (64-bit English Multi-language)
 - Default storage device: 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF)
- **HMIPSPH752D1801** and **HMIPSPH952D1801**:
 - Operating system: Windows 8.1 Industry SP1 (64-bit English Multi-language)
 - Default storage device: 500 GB HDD (Enterprise 24/7)
- **HMIPSP0752D1001** and **HMIPSP0952D1001**:
 - Operating system: No
 - Default storage device: No
- Windows 7 SP1 Ultimate operating system (64-bit English Multi-language) is available with Magelis iPC Configured To Order (see page 2/9)

HMI software support for Magelis HMIPSP

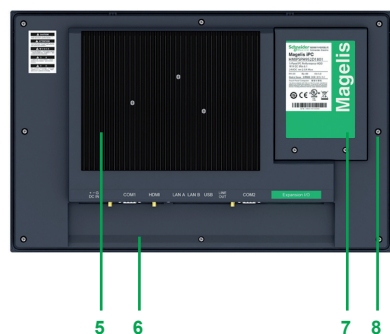
Magelis S-Panel PCs are supported by Schneider Electric HMI software for automation. Vijeo XD Run Time is readily available and can be downloaded in Magelis S-Panel PCs as a demo version. This can be upgraded to the unlimited version with an additional **HMIRTM CZLSPA ZZ** license.

Vijeo Citect SCADA software can run on Magelis HMIPSP with a SSD disk drive. This can be installed from the Vijeo Citect DVD supplied with the Magelis HMIPSP product.

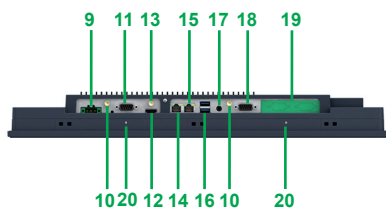
For more information on Vijeo XD HMI software or Vijeo Citect SCADA software, please refer to our website www.schneider-electric.com/HMI Configuration Software.



15" and 19" front panels



Rear panel



Underside

Description

Magelis HMIPSP Performance: 15" and 19"

Front panels

- 1 15" LCD Multi-touch LED screen, HD WFXGA 1366 x 768, 16 M colors for **HMIPSP•752D1••••**:
 - Brightness: 300 cd/m² (adjustable)
 - Type of touch panel: 5 point capacitive multi-touch
 - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 2 19" LCD Multi-touch LED screen, HD WFXGA 1366 x 768, 16 M colors for **HMIPSP•952D1••••**:
 - Brightness: 300 cd/m² (adjustable)
 - Type of touch panel: 5 point capacitive multi-touch
 - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 3 Panel
- 4 Power Status indicator (Blue: On, Orange: Stand-by, No light: Off)

Rear panel

- 5 Heat sink
- 6 S-Panel PC interface
- 7 S-Panel PC cover for storage drives (2.5" SATA HDD/SSD, CFast)
- 8 S-Panel PC rear access to mini PCIe and internal connector for optional interfaces

Underside

- 9 DC power connector
- 10 SMA connector for the external antenna (1)
- 11 1 COM1, RS-232 port
- 12 1 HDMI
- 13 SMA connector for the external antenna
- 14 1 Eth1 (10/100/1000 Mbps) supports AMT (active management technology)
- 15 1 Eth2 (10/100/1000 Mbps)
- 16 1 USB1 (USB 3.0) and 1 USB2 (USB 3.0)
- 17 1 Audio Line out
- 18 1 COM2, RS-232/422/485 port
- 19 1 optional interface
- 20 Snap hook (2)

(1) Use an extension cable to connect the external antenna when the HDMI cable is connected.
 (2) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PC

Performance range with 15" and 19" touch screens

2

PF513847



HMIPSPH752D1801

Magelis HMIPSP Performance: 15" Multi-touch screen
(Intel i3-4010U Dual core processor, 1.7 GHz)

Supply voltage Expansion slot	Operating system (1)	Software	Storage	DDR3 RAM (5)	Reference	Weight kg/lb
24 V --- (6) 1 mini PCI Express slot	WES 7 Premium SP1 (64-bit En MUI) (1) (2)	Vijeo XD RT Demo (3)	CFast card ≥ 16 GB	8 GB	HMIPSPC752D1W01	6.00/ 13.23
	Windows 8.1 Industry SP1 (64-bit En MUI)	Vijeo XD RT Demo (3), Vijeo Citect DVD (4)	SSD flash disk ≥ 80 GB with 2 million hours MTBF	8 GB	HMIPSPS752D1801	6.00/ 13.23
		Vijeo XD RT Demo (3)	HDD hard disk ≥ 500 GB	8 GB	HMIPSPH752D1801	6.00/ 13.23
				8 GB	HMIPSP0752D1001	6.00/ 13.23

PF513848



HMIPSPH952D1801

Magelis HMIPSP Performance: 19" Multi-touch screen
(Intel i3-4010U Dual core processor, 1.7 GHz)

Supply voltage Expansion slot	Operating system (1)	Software	Storage	DDR3 RAM (5)	Reference	Weight kg/lb
24 V --- (6) 1 mini PCI Express slot	WES 7 Premium SP1 (64-bit En MUI) (1) (2)	Vijeo XD RT Demo (3)	CFast card ≥ 16 GB	8 GB	HMIPSPC952D1W01	7.00/ 15.43
	Windows 8.1 Industry SP1 (64-bit En MUI)	Vijeo XD RT Demo (3), Vijeo Citect DVD (4)	SSD flash disk ≥ 80 GB with 2 million hours MTBF	8 GB	HMIPSPS952D1801	7.00/ 15.43
		Vijeo XD RT Demo (3)	HDD hard disk ≥ 500 GB	8 GB	HMIPSPH952D1801	7.00/ 15.43
				8 GB	HMIPSP0952D1001	7.00/ 15.43

PF513849



HMIPSPH752D1801

PF513850



HMIPSPH952D1801

(1) Windows 7 SP1 Ultimate 64-bit English Multi-language operating system is available with Configured To Order : Magelis HMIPSP (see page 2/9).

(2) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser

(3) Vijeo XD Run Time Demo to be installed which can be activated for unlimited license by HMIRTM CZLSPAZZ.

(4) Vijeo Citect DVD is only used for installation. Software activation license has to be ordered separately.

(5) 8 GB DDR3 RAM is not user expandable.

(6) AC power supply with external AC/DC power adapter HMIYSPMAC1.

Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PC

Separate components

PF143569A



HMIYMINNVRAM1

PF143570C



HMIYMINSL24851

PF143576A



HMIYMINCAN1

PF513651



HMIYMINIO1

Separate components

Description	Details	Compatible with Magelis HMIPSP Performance	Reference	Weight kg/lb
Storage disks, peripheral equipment				
CFast card	16 GB MLC, blank	All models	HMIYCFA16S	—
Blank SSD with mounting screws	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS080S1	—
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS160S1	—
	240 GB MLC (5-year warranty and 2 million hours MTBF)	All models	HMIYSSDS240S1	—
Blank HDD	Spare 1 TB HDD, blank	All models	HMIYHDD01T21	—
	Spare 500 GB HDD, blank	All models	HMIYHDD50021	—
NVRAM interface	Mini PCIe with non-volatile RAM, without external connectors	All models	HMIYMINNVRAM1	—
2 RS-422/485 isolated interface	Mini PCIe with 2 RS-422/485, isolated external interface with connectors	All models	HMIYMINSL24851	—
4 RS-422/485 interface	Mini PCIe with 4 RS-422/485, external interface with connectors	All models	HMIYMINSL44851	—
2 RS-232 isolated interface	Mini PCIe with 2 RS-232, isolated external interface with connectors	All models	HMIYMINSL22321	—
4 RS-232 interface	Mini PCIe with 4 RS-232, external interface with connectors	All models	HMIYMINSL42321	—
1 Profibus DP Master NVRAM interface	Mini PCIe with 1 Profibus DP Master, non-volatile RAM, external interface with connectors	All models	HMIYMINPRO1	—
2 CanOpen/CanBus interface	Mini PCIe with 2 Can fieldbus, external interface with connectors, drivers for CanOpen and CanBus	All models	HMIYMINCAN1	—
16DI/8DO interface	Mini PCIe with 16DI/8DO, external interface with connectors, 2 m/6.56 ft cable and Din rail wiring terminal	All models	HMIYMINIO1	—

Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PC

Separate components

Separate components				
Description	Details	Compatible with	Reference	Weight
		Magelis S-Panel PC ranges		
			Performance	kg/lb
Storage disks, peripheral equipment				
Maintenance kit for HMIPSP PCs	Includes: ■ Screws and dampers for HDD/SSD ■ Screws and clamps for panel mounting ■ Power connector and sticker ■ CFast card pull-out ■ Rubbers for 15" and 19" mounting ■ Bracket, screws and dampers for Mini PCIe	All models	HMIYPMKTPSP1	—
Removable protective sheet	Set of 5 protective sheets	All models	HMIYP752PS11	—
	Set of 5 protective sheets	All models	HMIYP952PS11	—
USB Key blank for iPC recovery	Spare USB memory key blank(1)	All models	HMIYUSBBK111	—
AC/DC power adapter 110/220 V ~ to 24 V ⎓	AC/DC power adapter, provided with US and Europe power cord	All models	HMIYPSPMAC1	—
Software				
Vijeo XD Run Time license	Converts the 21-day trial version of Vijeo XD Run Time Demo to an unlimited license.	HMIPSPC952D1W01 HMIPSPH952D1801 HMIPSPC752D1W01 HMIPSPH752D1801	HMIRTM CZLSPA ZZ	—

(1) USB key including restore image for recovery is supplied with each HMIPSP unit. The spare blank key is only necessary if the default key supplied with the unit is lost.

Configured To Order: Magelis HMIPSP

"Configured To Order" industrial PCs offer a vast number of configuration combinations for Magelis iPCs with certifications.

The Schneider Electric Customer Care Center can help you configure the right Magelis iPC based on your automation application and provide a quotation. A web configurator <http://www.hmisource.com/WWIPCC/npdetail.asp> is also available to help you easily build the configuration by yourself (password = Magelis).

Our Customer Care Center or the Web configurator will provide:

- The complete parts list for the configured Magelis S-Panel PC
- A configuration code that will be the part number of the Magelis iPC
- An XML file describing the selected configuration that will be directly uploaded with the order in the Schneider Electric ordering system, avoiding any manual operation errors

Ordering procedure for a configured Magelis Panel PC

If you have built your Magelis iPC configuration with the Web Configurator:

- 1 Please forward the email received from the Web Configurator to our Customer Care Center. This email contains a PDF file with your configuration description, code part number, and the XML file (to be uploaded directly to the Schneider Electric ordering system).
- 2 If required, specify the reference root part number GCR_HMIPCCS2.

If you cannot access the Magelis iPC Web Configurator:

- 3 Please contact our Customer Care Center and state the reference root part number GCR_HMIPCCS2.
- 4 Configure your Magelis Panel PC (see table below) and get your quote with the support of our Customer Care Center.
- 5 Confirm your order.

Configured To Order options for Magelis HMIPSP S-Panel PC

Option	Description
Panel PC	S-Panel PC Performance DC 8 GB RAM W15" - WHD
	S-Panel PC Performance DC 8 GB RAM W19" - WHD
Fanless CPU ULV	Performance Core i3-4010U
Power Supply	DC (1)
Windows Operating System	None
	WES7 Premium SP1 64-bit English Multi-language
	Win7 Ultimate FES SP1 64-bit English Multi-language
	Win 8.1 Industry 64-bit English Multi-language
Main Storage device for Operating System	None
	CFast 16 GB
	HDD 500 GB
	HDD 1 TB
	SSD 80 GB
	SSD 160 GB
	SSD 240 GB
Optional interfaces (pre-mounted)	None
	NVRAM
	2 RS422/485 Isolated
	4 RS422/485
	2 RS232 Isolated
	4 RS232
	16 DI/8 DO
	2 CanOpen CanBus
	Profibus DP Master with NVRAM
	None
Software bundle	None
	Vijeo XD Run Time unlimited license

(1) AC power supply with external AC/DC power adapter HMIYSPMAC1.

Magelis HMIP Panel PC Optimum range

Selection guide of Optimum range with 10.4" and 15" touch screens page 3/2

■ Presentation

- Overview of the range
 - Magelis HMIP Optimum..... page 3/4
 - Made-to-order Magelis HMIP Optimum page 3/4

■ Description

- Magelis HMIP Optimum: 10.4" (Aluminum bezel) and 15" (Aluminum or Stainless steel bezel)
 - Front panels page 3/4
 - Common rear panel page 3/4
 - Common underside page 3/4

■ References

- Magelis HMIP Optimum: 10.4" and 15" LCD TFT LED touch screens page 3/5

Magelis HMIP Panel PC Universal and Performance ranges

Selection guide of Magelis HMIP Universal and Performance ranges with 12" touch screen page 3/6

■ Presentation

- Overview of the range
 - Magelis HMIP Universal with 12" touch screen..... page 3/8
 - Magelis HMIP Performance with 12" touch screen page 3/9
 - Made-to-order Magelis HMIP Universal and Performance ranges..... page 3/9

■ Description

- Magelis HMIP Universal and Performance: 12" page 3/10
- Magelis HMIP Universal and Performance: 12", without expansion slots module page 3/10
- Magelis HMIP Universal and Performance: 12", without expansion slot module..... page 3/11
- Magelis HMIP Universal and Performance: 12", with expansion slot module..... page 3/12

■ References

- Magelis HMIP Universal: 12" LCD TFT LED touch screen page 3/13
- Magelis HMIP Performance: 12" LCD TFT LED touch screen..... page 3/13

Selection guide of Magelis HMIP Universal and Performance ranges with 15" and 19" touch screens page 3/14

■ Presentation

- Overview of the range
 - Magelis HMIP Universal with 15" and 19" touch screens page 3/18
 - Magelis HMIP Performance with 15" and 19" touch screens page 3/19
 - Made-to-order Magelis HMIP Universal and Performance page 3/19
- USB accessories for HMI terminals page 3/19

■ Description

- Magelis HMIP Universal and Performance: 15" and 19" page 3/20
- Magelis HMIP Universal and Performance: 15" and 19", no PCI slot page 3/21
- Magelis HMIP Universal and Performance: 15" and 19", 2 PCI slots page 3/21

■ **References**

- Magelis HMIP Universal: 15" LCD TFT LED touch screen *page 3/22*
- Magelis HMIP Performance: 15" LCD TFT LED touch screen..... *page 3/23*
- Magelis HMIP Universal: 19" LCD TFT LED touch screen *page 3/24*
- Magelis HMIP Performance: 19" LCD TFT LED touch screen..... *page 3/25*

- **Separate components for Magelis HMIP
with 12" touch screen** *page 3/26*

- **Separate components for Magelis HMIP
Optimum, Universal and Performance ranges** *page 3/27*

■ **Substitution**

- Configured Magelis HMIP *page 3/29*
- Equivalent product table *page 3/30*

Industrial PCs
Magelis iPCs for automation
Magelis HMIP Panel PC
Optimum range with 10.4" and 15" touch screens

Type		Optimum range - 10.4" touch screen	
Industrial environments		Maintenance-free (with Aluminum front panel bezel)	
			
Fanless		★★★★★	
Non-rotative storage drive		★★★★★	
Screen	Type	10.4" LCD TFT LED touch screen	
	Definition	SVGA 800 x 600, 16 M colors	
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
	Front panel bezel material	Aluminum	
CPU	Processor	Intel®ATOM™ Z510 (1.1 GHz)	
	Operating system storage	Compact Flash card ≥ 2 GB (SLC technology)	Compact Flash card ≥ 4 GB (SLC technology)
	User storage	Integrated SD card reader	
	RAM (1)	1 GB	2 GB
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 2 USB 2.0 (1 A) on the underside 1 RS-232C	
Operating system		Windows® Embedded Standard 2009	
Supply voltage	Voltage	24 V $\pm$ 25 %	
	Current	Nominal current 1.9 A Typical inrush current 3 A, 50 A < 300 μ s	
Overall dimensions (W x H x D)/Cut-out (W x H)		323 x 260 x 72 mm/303 x 243 mm (12.72 x 10.24 x 2.83 in./11.93 x 9.57 in.)	
Temperature	During operation	0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508	
Vibration resistance during operation	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (2)	
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (2)	
	Merchant navy IACS E10	–	
Shock resistance	during operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea	
Standards and certifications		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST	
Marine certification	Germanischer Lloyd (Bridge Class)	Requires additional power supply filter HMIYLFIMAR11.	
ATEX certification		–	
Software		☐ Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser. ☐ Vijeo Designer RT Demo 21-day trial version (3). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ. ☐ Vijeo Citect Web Client.	
References of Aluminum bezel versions	With Vijeo Designer RT Demo, 21-day version (3)	HMIPWC5D0E01	HMIPWC5D0E01A
References of Stainless steel bezel versions	With Vijeo Designer RT Demo, 21-day version (3)	–	
Pages		3/5	
Made-to-order configuration		See configured Magelis Panel PC on page 3/27	

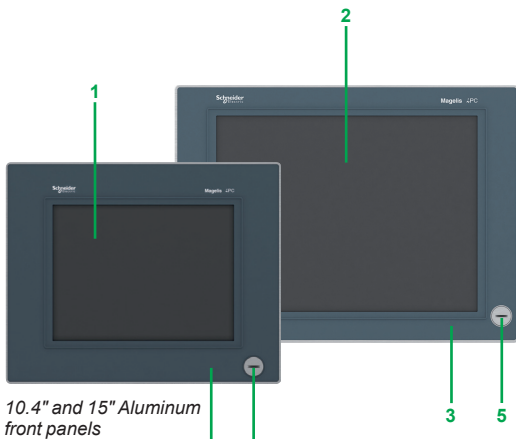
(1) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/27).
(2) Conforming to IEC 60068-2-6 Fc.
(3) Unlimited license, to be ordered separately (VJDSNRTMPC).

Optimum range - 15" touch screen	
Maintenance-free (with Aluminum or Stainless steel front panel bezel)	
	
★★★★★	
★★★★★	
15" LCD TFT LED touch screen	
XGA 1024 x 768, 16 M colors	
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
Aluminum or Stainless steel	
Intel ATOM Z510 (1.1 GHz)	
Compact Flash card ≥ 2 GB (SLC technology)	
Integrated SD card reader	
1 GB	
2 Ethernet 10/100/1000 Mbps	
1 USB 2.0 (1 A) on the front panel + 2 USB 2.0 (1 A) at the bottom	
1 RS-232C	
Windows Embedded Standard 2009	
24 V $\pm$ 25 %	
Nominal current 1.9 A Typical inrush current 3 A, 50 A < 300 μ s	
402 x 301 x 72 mm/ 383.5 x 282.5 mm (15.83 x 11.85 x 2.83 in./15.10 x 11.12 in.)	
0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508	
1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (2)	
3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (2)	
1 mm/0.04 in. from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	
15 g/11 ms conforming to IEC 60068-2-27 test Ea	
☐ CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 No. 213), C-Tick, GOST ☐ EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only) Requires additional power supply filter HMIYLFIMAR11 (Aluminum bezel versions only).	
ATEX II 3 Gas and Dust zone 2/22 (Stainless steel bezel versions only)	
☐ Acrobat Reader, Word/Excel/Power Point Viewer, Framework.Net 3.5, Web browser. ☐ Vijeo Designer RT Demo 21-day trial version (3). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ. ☐ Vijeo Citect Web Client.	
HMIPWC7D0E01	
HMIPVC7D0E01	
3/5	
See configured Magelis Panel PC on page 3/27	

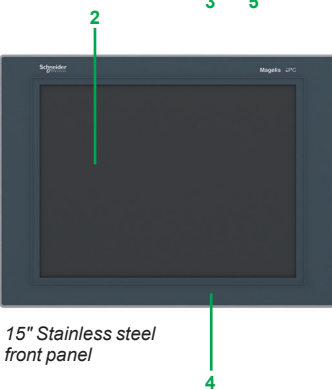




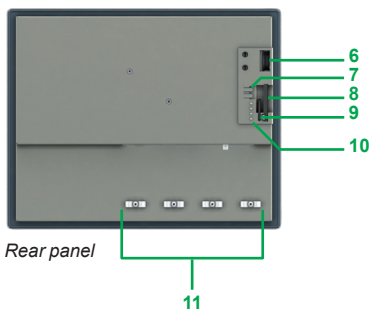
10.4" and 15" Magelis HMIP Panel PCs



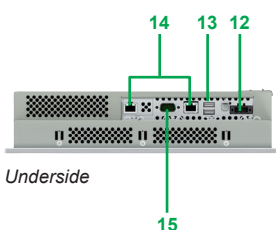
10.4" and 15" Aluminum front panels



15" Stainless steel front panel



Rear panel



Underside

Presentation

The Magelis HMIP Panel PC Optimum range offers products that are rugged and certified for automation applications. These optimized products also feature compact dimensions, particularly in terms of depth.

HMIPs are specifically designed for use in maintenance-free environments and can be easily integrated into IT systems. They are available in aluminum and stainless steel front panel bezel versions.

Overview of the range

Magelis HMIP Optimum

Magelis HMIP Optimum is equipped with a fanless Intel® ATOM™ Z510 processor (1.1 GHz) and DDR2 RAM (1). This range is available with a 10.4" or 15" LCD TFT LED touch screen of 16 M colors, with a solid-state storage disk:

- **HMIPWC5D0E01, HMIPWC5D0E01A and HMIPWC7D0E01:**
 - IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door
 - Compact Flash card (operating system)/integrated SD card reader (user data)/Windows® Embedded Standard 2009/24 V --- power supply.

Made-to-order Magelis HMIP Optimum

On Magelis HMIP Optimum bases, the CPU can be customized by selecting the RAM and Compact Flash card capacity. For more information on the HMIPCCW offer, see page 3/29.

Description

Magelis HMIP Optimum: 10.4" (Aluminum bezel) and 15" (Aluminum or stainless steel bezel)

Front panels

- 1 10.4" LCD TFT LED touch screen (SVGA 800 x 600) with 16 M colors for **HMIPWC5D0E01** and **HMIPWC5D0E01A**:
 - Brightness: 450 cd/m² (adjustable)
 - Type of touch panel: Analog resistive film, resolution 4096 x 4096
 - Typical viewing angle: 120° (vertically)/160° (horizontally)
 - 2 15" LCD TFT LED touch screen (XGA 1024 x 768) with 16 M colors for **HMIPWC7D0E01**:
 - Brightness: 350 cd/m² (adjustable)
 - Type of touch panel: Analog resistive film, resolution 4096 x 4096
 - Typical viewing angle: 100° (vertically)/160° (horizontally)
 - 3 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
 - Mounted on 1.6...10 mm/0.063...0.394 in. thick support using the supplied screw fasteners (2)
- or
- 4 Stainless steel 304 "Scotch Brite®" brushed finish front panel providing IP 65 and Nema 4X indoor degree of protection when mounted on a panel or an enclosure door:
 - Mounted on 1.6...10 mm/0.063...0.394 in. thick support using stainless steel screw fasteners supplied (2).
 - Simplifies cleaning because of the absence of a USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2).
 - The front panel is fitted with special seals (standard FDA 21 CFR 177.206).
 - 5 USB 2.0 port (1 A max.) with screw-on protective cover (only available for Aluminum version):
 - Captive protective cover option also available (3)

Common rear panel

- 6 Battery
- 7 2 pushbuttons: 1 for power supply and 1 for resetting
- 8 Compact Flash card (SLC technology) ≥ 2 or 4 GB specifically for the operating system
- 9 SD card reader for user data - SD card optional (3)
- 10 4 status and power supply LEDs
- 11 Cable clamps

Common underside

- 12 24 V ---/1.9 A power supply connector
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 Ethernet 10/100/1000 Mbps ports
- 15 1 RS-232C port

(1) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(2) For installation, please refer to product data sheets of respective product references.

(3) To be ordered separately (see page 3/26).

Magelis HMIP Optimum: 10.4" and 15" LCD TFT LED touch screens ⁽¹⁾
Intel ATOM Z510 processor (1.1 GHz)/DDR2 RAM/24 V --- supply voltage ⁽²⁾

Screen type	Operating system	Software	Storage	DDR2 RAM ⁽³⁾	Reference	Weight kg/lb
For maintenance-free environment (with Aluminum front panel bezel)						
10.4" LCD TFT LED touch screen SVGA 800 x 600, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 ⁽⁴⁾	Vijeo Designer RT Demo ⁽⁵⁾	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	HMIPWC5D0E01	4.400/ 9.700
			Operating system: Compact Flash ≥ 4 GB User: 1 SD memory card reader (card available separately)	2 GB	HMIPWC5D0E01A	4.400/ 9.700
15" LCD TFT LED touch screen XGA 1024 x 768, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 ⁽⁴⁾	Vijeo Designer RT Demo ⁽⁵⁾	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	HMIPWC7D0E01	6.100/ 13.449

For maintenance-free environment (with Stainless steel front panel bezel)

15" LCD TFT LED touch screen XGA 1024 x 768, 16 M colors IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door	Windows Embedded Standard 2009 ⁽⁴⁾	Vijeo Designer RT Demo ⁽⁵⁾	Operating system: Compact Flash ≥ 2 GB User: 1 SD memory card reader (card available separately)	1 GB	HMIPVC7D0E01	6.300/ 13.889
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⁽¹⁾ For separate components, software and external power supply, see page 3/26.

⁽²⁾ For an ~ supply voltage, an external Phaseo power supply can be used (see page 3/26).

⁽³⁾ Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

⁽⁴⁾ Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer Run Time Demo ⁽⁵⁾

⁽⁵⁾ Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/26). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.

⁽⁶⁾ Requires Vijeo Designer software running on Magelis Panel PC.



HMIPWC5D0E01
(screen side)



HMIPWC7D0E01
(screen side)



HMIPWC5D0E01
(CPU side)

Industrial PCs
Magelis iPCs for automation
Magelis HMIP Panel PC
Universal and Performance ranges with 12" touch screen

Type		Universal range - 12" touch screen	
Industrial environments		Maintenance-free (with Aluminum bezel)	
			
Fanless		★★★★★	★★★★★
Non-rotative storage drive		★★★★★	★★★★★
Screen	Type	12" LCD TFT LED touch screen	
	Definition	XGA 1024 x 768, 16 M colors	
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door	
	Front panel bezel material	Aluminum	
CPU (1)	Processor	Intel® iCore™ 827E low power	
	Fan	–	
	Default storage (user removable)	CFast card ≥ 4 GB (SLC technology)	SSD flash disk ≥ 60 GB with 2 million hours MTBF
	Storage slots (user accessible)	1 CFast + 1 Slide-in Compact	
	RAM (16 GB max. in 2 slots)	2 GB in 1 slot, user extendable (1)	
	Slots expansion module	(to be added by user) (1)	
	Integrated DVD-RW drive	(to be added by user) (1)	
	Integrated ports	2 Ethernet 10/100/1000 Mbps	
		1 USB 2.0 (0.5 A) on the front panel + 4 USB 3.0 (1 A) at the bottom	
		2 RS-232C	
	Optional ports	2 user accessible interface module slots (1)	
	Optional internal RAID	–	
Operating system		Windows® Embedded Standard 2009	Windows 7 Ultimate 64-bit
Overall dimensions (W x H x D)/Cut-out (W x H)		313 x 239 x 60 mm / 302 x 228 mm (12.32 x 9.41 x 2.36 in. / 11.89 x 8.98 in.)	
Temperature	During operation	0...50 °C / 32...122 °F, conforming to IEC 61132-2, UL 508	
	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)	
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)	
Vibration resistance during operation	Merchant navy IACS E10	1 mm/0.04 in. amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	
		15 g/11 ms conforming to IEC 60068-2-27 test Ea	
Shock resistance During operation		15 g/11 ms conforming to IEC 60068-2-27 test Ea	
Standards and certifications		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST	
HMI Software		☐ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC) and requires additional SRAM interface HMIYPINSRAM61 (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.	
References of Aluminum bezel versions	24 V ~	HMIPUC6D0E01	HMIPUF6D0701
	100...240 V ~	HMIPUC6A0E01	HMIPUF6A0701
Pages		3/13	
Made-to-order configuration		See configured Magelis Panel PC on page 3/27	

(1) Other options (interface for backup battery, 3rd RS-232/422/485 port, SRAM, PCI/Express slots, extended RAM, etc.) to be installed by user or in made-to-order configuration (see page 3/27).
(2) Half size PCI 2.2 32-bit and half size PCI Express 1.0 8x 2 Gb/s.
(3) Conforming to IEC 60068-2-6 Fc.
(4) For DC, the AC module can be removed by the user.

Universal range - 12" touch screen		Performance range - 12" touch screen	
Standard (with Aluminum bezel)		Maintenance-free (with Aluminum bezel)	Standard (with Aluminum bezel)
			
★★★★★		★★★★★	–
–		★★★★★	–
12" LCD TFT LED touch screen			
XGA 1024 x 768, 16 M colors			
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door			
Aluminum			
Intel iCore 827E low power		Intel i3 iCore 3217UE dual core low power	
1 (user exchangeable)		–	1 (user exchangeable)
Hard disk Enterprise 24/7 ≥ 500 GB		SSD flash disk ≥ 60 GB with 2 million hours MTBF	
1 CFast + 1 Slide-in Compact		1 CFast + 1 Slide-in Compact + 1 slide-in (of Slots expansion module)	
2 GB in 1 slot, user extendable (1)		4 GB in 1 slot, user extendable (1)	
(to be added by user) (1)		1 PCI + 1 Express® + 1 slide-in (Slots expansion module removable by user) (2)	
(to be added by user) (1)		1 (in slide-in of Slots expansion module)	
2 Ethernet 10/100/1000 Mbps			
1 USB 2.0 (0.5 A) on the front panel + 4 USB 3.0 (1 A) at the bottom			
2 RS-232C			
2 user accessible interface module slots (1)			
–		Requires 2 HDD (1 for slide compact and 1 for slide-in of the expansion slots module)	
Windows 7 Ultimate 64-bit			
313 x 239 x 60 mm / 302 x 228 mm (12.32 x 9.41 x 2.36 in. / 11.89 x 8.98 in.)		313 x 239 x 135 mm / 302 x 228 mm (12.32 x 9.41 x 5.31 in. / 11.89 x 8.98 in.)	
0...50 °C / 32...122 °F, conforming to IEC 61132-2, UL 508			
0.125 g from 5...100 Hz		1.75 mm / 0.07 in. from 2...9 Hz, (3) 0.5 g from 9...200 Hz (2)	0.125 g from 5...100 Hz
0.250 g from 5...100 Hz		3.5 mm / 0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (2)	0.250 g from 5...100 Hz
–			
15 g/11 ms conforming to IEC 60068-2-27 test Ea			
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST			
☐ Vijeo Designer RT Demo 21-day trial version and Unlimited license, to be ordered separately (VJDSNRTMPC) and requires additional SRAM interface HMIYPINSRAM61 (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.			
HMIPUH7D0P01		User removable AC module (4)	User removable AC module (4)
HMIPUH7A0P01		HMIPPF6A2701	HMIPPH6A2701
See configured Magelis Panel PC on page 3/13			



12" Magelis Universal Panel PC



12" Magelis Performance Panel PC

Presentation

The Magelis HMIP Panel PC Universal and Performance ranges with 12" touch screen offer products that are rugged and certified for automation applications. They are suitable for various uses in the following environments:

- Maintenance-free
- Harsh
- Standard

The ultra-modular design of Panel PCs with 12" touch screen allows users to adapt the unit configuration. Main options such as an interface for backup battery, third RS-232/422/485 ports, SRAM, PCI/PCI Express® slots, expanded RAM, fan if any, and AC power module are all user-accessible. The 12" touch screen is an XGA LCD TFT LED 16 M color touch screen with IP 65 front panel protection when mounted on a panel or an enclosure door.

This modularity provides a complete and coherent offer. In addition, Magelis Panel PCs can be made-to-order (see page 3/27) or adapted by the user according to their present and future requirements.

HMIPs are equipped with powerful iCore CPUs that have extended graphic capabilities. When combined with aluminum die-cast housing technology, these low power consumption CPUs improve heat dissipation and enable fanless operations.

Overview of the range

Magelis HMIP Universal with 12" touch screen (1)

The Magelis Panel PC Universal range with 12" touch screen is equipped with a low-power Intel iCore 827E and a user-expandable DDR3 RAM.

This range is designed for the following environments:

- Maintenance-free environment (fanless, with non-rotating storage drive):
 - **HMIPUC6D0E01** and **HMIPUC6A0E02**:
 - No default PCI/PCI Express slots, but an expansion slot module can be mounted by user
 - CFast card/Windows Embedded Standard 2009
 - 24 V $\overline{\text{---}}$ power supply or 100...240 V $\sim$ power supply module pre-mounted
 - **HMIPUF6D0701** and **HMIPUF6A0701**:
 - No default PCI/PCI Express slots, but an expansion slot module can be mounted by the user
 - SSD flash disk/Windows 7 Ultimate 64-bit
 - 24 V $\overline{\text{---}}$ power supply or 100...240 V $\sim$ power supply module pre-mounted
- Standard industrial environment (with hard disk):
 - **HMIPUH6D0701** and **HMIPUH6A0701**:
 - No default PCI/PCI Express slots, but an expansion slot module can be mounted by user
 - Hard disk/Windows 7 Ultimate 64-bit
 - 24 V $\overline{\text{---}}$ power supply or 100...240 V $\sim$ power supply module pre-mounted

(1) For description, see pages 3/10 to 3/12.

Presentation (continued)

Overview of the range (continued)

Magelis HMIP Performance with 12" touch screen (1)

The Magelis HMIP Performance range with 12" touch screen is equipped with a low power Intel i3 iCore 3217UE and user-expandable DDR3 RAM.

This range is designed for the following environments:

- Maintenance-free environment (fanless, with non-rotating storage drive):
- **HMIPPF6A2701**
 - 1 PCI + PCI Express (half-size PCI 2.2 32-bit and half-size PCI Express 1.0 8x 2 Gbps)
 - DVD-RW
 - SSD flash disk/Windows 7 Ultimate 64-bit
 - 100...240 V ~ power supply module pre-mounted (user-removable access to 24 V --- power supply)
- Standard industrial environment (with hard disk):
- **HMIPPH6A2701**
 - 1 PCI + PCI Express (half-size PCI 2.2 32-bit and half-size PCI Express 1.0 8x 2 Gbps)
 - DVD-RW
 - Hard disk/Windows 7 Ultimate 64-bit
 - 100...240 V ~ power supply module pre-mounted (user-removable access to 24 V --- power supply)

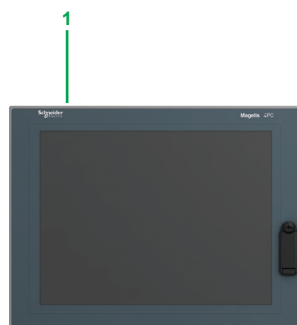
Made-to-order Magelis HMIP Universal and Performance ranges

On Magelis HMIP Universal and Performance bases, you can configure the units by selecting:

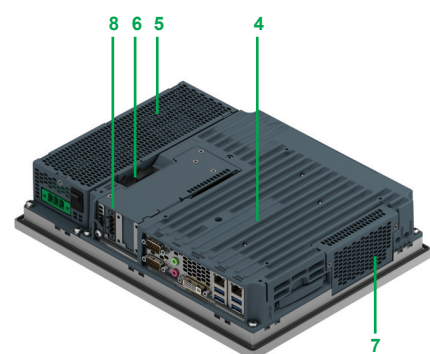
- the capacity of the Compact Flash cards, CFast cards, SSD flash disk and RAM
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional options: Internal RAID with 2 redundant hard disks, interface for backup battery, power supply module, third RS-485 port

For more information on the HMIPCC offer, see page 3/29.

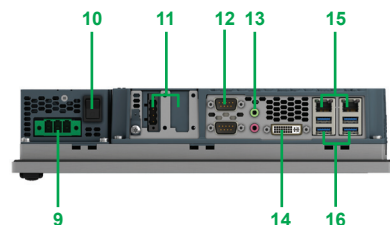
(1) For description, see pages 3/10 to 3/12.



12" Aluminum front panel



Rear panel



Underside

Description

Magelis HMIP Universal and Performance: 12" (Aluminum bezel)

Front panel

- 1 12" LCD TFT LED touch screen, XGA 1024 x 768, 16 M colors for **HMI●●●6●●●●●●**:
 - Brightness: 500 cd/m² (stepless adjustable)
 - Type of touch panel: analog resistive film, 12-bit resolution
 - Typical viewing angle: 80° (vertically)/80° (horizontally)
 - LED life span > 50,000 hrs at 25 °C/77 °F
- 2 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
 - Mounted on 1.6...9 mm/0.06...0.34 in. thick support using the screw fasteners supplied (1)
- 3 USB 2.0 port (0.5 A max.) with screw-on captive protective cover

Magelis HMIP Universal and Performance: 12", without expansion slot module

Rear panel

- 4 Aluminum die-cast housing for improved heat dissipation. This technology, combined with low-power iCore 3rd generation CPUs, allows fanless operations with static drives, up to 50 °C/122 °F environment (1)
- 5 AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user-removable, or direct access to DC power connector for **HMI●●●6D●●●** (24 V --- +/-25 %, 130 W max.) (2)
- 6 User access to internal battery for backing up real-time clock (RTC) and BIOS settings
- 7 User access to 2 x DDR3 RAM slots and slide-in compact slot for storage drive
- 8 User access to mount interface modules and expansion modules **HMIPI●●●** (3)

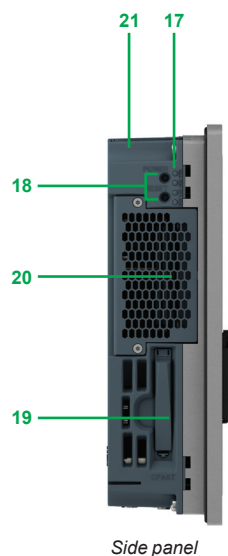
Underside

- 9 Connector for AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user removable, or direct access to DC power connector
- 10 On/Off switch for AC power module **HMIYPMAC61** pre-mounted on Panel PC 12" **HMI●●●6A●●●**
- 11 2 slots for interface modules with following restrictions:

Panel PC	Part number	Slot 1	Slot 2
UPS interface module (3)	HMIYPUISINT61	X	—
SRAM interface module (3)	HMIYPINSRAM61	—	X
RS-232/422/485 interface module (3)	HMIYPINSL61	X	X

- 12 2 RS-232C ports
- 13 Micro input, line input/line output
- 14 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (3)
- 15 2 Ethernet 10/100/1000 Mbps ports
- 16 4 USB 3.0 ports (1 A max.)

(1) For installation, please refer to product data sheets of respective product references.
 (2) Consumption excluding additional PCI/PCI Express card.
 (3) To be ordered separately as an accessory (see pages 3/26 and 3/27).



Description (continued)

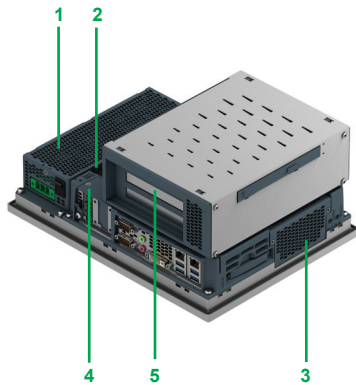
Magelis HMIP Universal and Performance: 12", without expansion slot module (continued)

Side panel

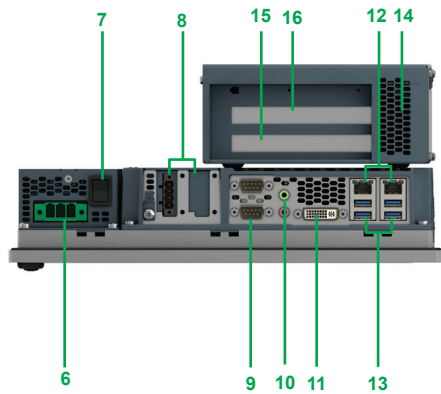
- 17** 4 status and power supply LEDs
- 18** 2 pushbuttons: 1 for power supply and 1 for resetting
- 19** Slot for CFast card:
 - With CFast card (SLC technology) ≥ 4 GB (Panel PC **HMIPUC●D0E01**)
 - Free slot (Panel PC **HMIP●●F6●0●●1**, **HMIP●H6●●0●●1**)
- 20** User access to the 2 DDR3 RAM slots expandable up to 16 GB and the slide-in compact slot for storage drive:
 - With 2 GB RAM in 1 slot (Panel PC **HMIPUC6●0E01**). Free slide-in compact slot can be used directly for an additional SSD flash disk, SSD hard disk or with adapter (**HMIYADCFast61**) (1) for a second CFast card
 - With 2 GB RAM in 1 slot + SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIPUF6●0701**)
 - With 2 GB RAM in 1 slot + Hard disk ≥ 500 GB (Panel PC **HMIPUF6●0701**)
- 21** User access to fan (Panel PC **HMIP●H6●●●●●●**) (2) or natural convection (Panel PC **HMIP●C6●●●●●●** and **HMIP●F6●●●●●●**)

(1) To be ordered separately as an accessory (see page 3/28).

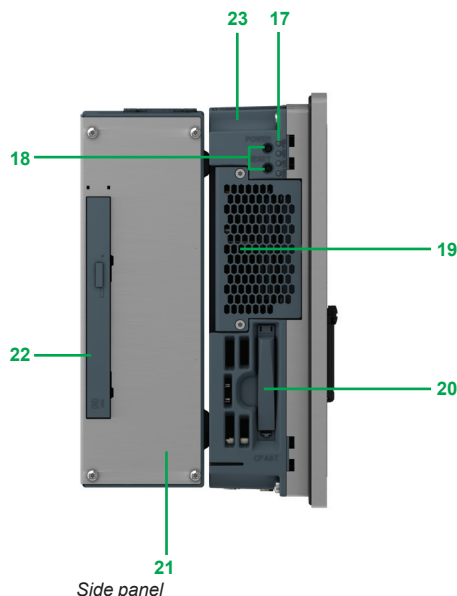
(2) User can add or replace fan, with fan kit HMIYPFKT061 (to be ordered separately, see page 3/28).



Rear panel



Underside



Side panel

Description (continued)

Magelis HMIP Universal and Performance: 12", with expansion slots module

Rear panel

- 1 AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●** and user-removable, or direct access to DC power connector (24 V --- +/-25 %, 130 W max.) (2)
- 2 User access to internal battery, backing up real-time clock (RTC) and BIOS settings
- 3 User access to the 2x DDR3 RAM slots and the slide-in compact slot for storage drive
- 4 User access to interface module slots
- 5 Expansion slot module pre-mounted on Panel PC **HMIPP●6●2●●●**

Underside

- 6 Connector for AC power module **HMIYPMAC61** (100...240 V ~, 45/65 Hz, 0.6...2 A) pre-mounted on Panel PC 12" **HMI●●●6A●●●**, or direct access to DC power connector
- 7 On/Off switch for AC power module **HMIYPMAC61** pre-mounted on Panel PC 12" **HMI●●●6A●●●**
- 8 2 slots for interface modules with following restrictions:

Panel PC	Reference Number	Slot 1	Slot 2
UPS interface module (3)	HMIYPUISINT61	X	—
SRAM interface module (3)	HMIYPINSRAM61	—	X
RS-232/422/485 interface module (3)	HMIYPINSL61	X	X

- 9 2 RS-232C ports
- 10 Micro input, line input/line output
- 11 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (3)
- 12 2 Ethernet 10/100/1000 Mbps ports
- 13 4 USB 3.0 ports (1 A max.)
- 14 Expansion slot module (Panel PC **HMIPP●6A2701**)
- 15 Slot for half-size PCI Express 1.0 8x 2 Gbps
- 16 Slot for half-size PCI 2.2 32-bit

Side panel

- 17 4 status and power supply LEDs
- 18 2 pushbuttons: 1 for power supply and 1 for resetting
- 19 User access to 2x DDR3 RAM slots which are expandable up to 16 GB and slide-in compact slot for storage drive:
 - with 4 GB RAM in 1 slot + Hard disk ≥ 500 GB (Panel PC **HMIPPF6A2701**)
 - with 4 GB RAM in 1 slot + SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIPPH6A2701**)
- 20 Slot for CFast card:
 - Free slot (Panel PC **HMIPP●6●2●●1**)
- 21 Expansion slots module (Panel PC **HMIPP●6A2701**)
- 22 Slide-in slot with the DVD-RW drive included (4). This can be used for an additional storage disk with adapter (**HMIYADSLIDEIN61**) (3)
- 23 User access to fan (Panel PC **HMIP●H6●●●●●**) (5) or natural convection (Panel PC **HMIP●C6●●●●●** and **HMIP●F6●●●●●**)

(1) For installation, please refer to the "user manual" on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(2) Consumption excluding additional PCI/PCI Express card.

(3) To be ordered separately as an accessory (see pages 3/26 and 3/27).

(4) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

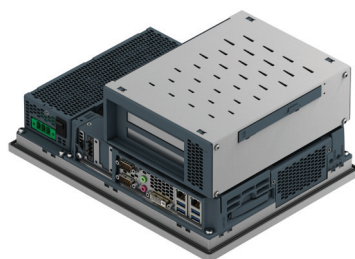
(5) User can add or replace fan, with fan kit **HMIYPFKT061** (to be ordered separately, see page 3/26).

(6) SRAM interface modules must be installed to run Vijeo Designer RT software.

Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC

Universal and Performance ranges with
12" touch screenHMIPU6A0001
(Screen side)HMIPU6A0001
(Rear side)HMIPP6A2701
(Screen side)HMIPP6A2701
(Rear side)**Magelis HMIP Universal: 12" LCD TFT LED touch screen (1) (2)****Intel iCore 827E low power**

Supply voltage (6)	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg/lb
For maintenance-free environment						
24 V $\sim$ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	CFast card $\geq$ 4 GB (SLC technology)	2 GB in 1 slot	HMIPUC6D0E01	4.000/ 8.818
240 V $\sim$ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	CFast card $\geq$ 4 GB (SLC technology)	2 GB in 1 slot	HMIPUC6A0E01	4.000/ 8.818

24 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB in 1 slot	HMIPUF6D0701	4.000/ 8.818
240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB in 1 slot	HMIPUF6A0701	4.000/ 8.818

For standard industrial environment

24 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB in 1 slot	HMIPUH6D0701	4.000/ 8.818
240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB in 1 slot	HMIPUH6A0701	4.000/ 8.818

Magelis HMIP Performance: 12" LCD TFT LED touch screen (1) (2)**Intel i3 iCore 3217UE dual-core low-power**

Supply voltage (6)	Operating system	Software	Storage	DDR3 RAM (3)	Reference	Weight kg/lb
For maintenance-free environment						
240 V $\sim$ 2 PCI/ PCI Express slots	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB in 1 slot	HMIPPF6A2701	4.200/ 9.259
For standard industrial environment						
240 V $\sim$ 2 PCI/ PCI Express slots	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB in 1 slot	HMIPPH6A2701	4.200/ 9.259

(1) 12" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components and software, see page 3/27.

(3) Memory capacity user-expandable up to 16 GB in 2 slots.

(4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer RT Demo (5)

(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) + requires additional SRAM interface HMIYPINSRAM61, see page 3/26. Vijeo XD RT Demo to be installed and activated with an unlimited license HMIRTMCZLSPAZZ.

(6) AC models come with a removable AC to DC power module and the user can also mount additional AC power module HMIYPMAC61 in DC models, see page 3/26.

Industrial PCs
Magelis iPCs for automation
Magelis HMIP Panel PC
Universal and Performance ranges with 15" touch screen

Type		Universal range - 15" touch screen (no PCI slot)		
Industrial environments		Maintenance-free (with Aluminum bezel)		Standard (with Aluminum bezel)
				
Fanless		★★★★★	★★★★★	★★★★★
Non rotative storage drive		★★★★★	★★★★★	—
Screen	Type	15" LCD TFT LED touch screen		
	Definition	XGA 1024 x 768, 16 M colors		
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door		
	Front panel bezel material	Aluminum		
CPU (1)	Processor	Intel® ATOM™ N270 (1.6 GHz)		
	PCI slot	—		
	Storage	Compact Flash card ≥ 4 GB (SLC technology)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB
	RAM (2)	2 GB	2 GB	2 GB
	Integrated DVD-RW drive	—		
	Slide-in rack for peripheral device	1 slide-in compact rack for storage disk		
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top 2 RS-232C/1x DVI (VGA RGB adapter, optional) 1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		
	Optional ports	—		
	Optional RAID PCI card	—		
Operating system		Windows Embedded Standard 2009 Windows XP Professional SP3		
Overall dimensions (W x H x D)/Cut-out (W x H)		402 x 301 x 104 mm/383.5 x 282.5 mm (15.83 x 11.85 x 4.09 in./15.10 x 11.12 in.)		
Temperature	During operation	0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508		
Vibration resistance during operation	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)		0.125 g from 5...100 Hz
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (conforming to IEC 60068-2-6 Fc)		0.250 g from 5...100 Hz
	Merchant navy IACS E10	1 mm/0.04 in. amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance		—
Shock resistance	During operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea		
Standards and certifications		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST		
Marine certif.	Germanischer Lloyd (Bridge Class)	24 V ~ only with additional power supply filter HMIYLFIMAR11		—
ATEX certification		—		
HMI Software		☐ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ.		
References of Aluminum bezel versions (1)	24 V ~	HMIPUC7D0E01	HMIPUF7D0P01	HMIPUH7D0P01
	24 V ~ Vijeo Citect Lite 1200 I/O	—	HMIPUF7D0PL1	—
	24 V ~ Interface for battery	—	—	—
	24 V ~ Vijeo Citect Full 500 I/O	—	—	—
	100...240 V ~	—	HMIPUF7A0P01	HMIPUH7A0P01
	100...240 V ~ Vijeo Citect Full 500 I/O	—	—	—
References of Stainless steel bezel versions (1)	24 V ~	—	—	—
	100...240 V ~	—	—	—
Pages		3/22		
Made-to-order configuration		See configured Magelis Panel PC on page 3/29		

(1) Other options available (interface for backup battery, 3rd serial port, etc.) in made-to-order configuration (see page 3/26).
(2) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/26).

Universal range (2 PCI slots)		Performance range (no PCI slot)		Performance range (2 PCI slots)	
Maintenance-free (with Aluminum or Stainless steel bezel)	Standard (with Aluminum or Stainless steel bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum or Stainless steel bezel)
					
★★★★★	★★★★★	—	—	—	—
★★★★★	—	★★★★★	—	★★★★★	—
15" LCD TFT LED touch screen					
XGA 1024 x 768, 16 M colors					
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door					
Aluminum or Stainless steel		Aluminum			Aluminum or Stainless steel
Intel ATOM N270 (1.6 GHz)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset			
2 (1 PCI + 1 PCI Express®)		—		2 (1 PCI + 1 PCI Express)	
SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB
2 GB	2 GB	4 GB	4 GB	4 GB	4 GB
1	—	—		1	
1 slide-in compact rack for storage disk (Flash disk or hard disk included)		1 slide-in compact rack for storage disk		1 slide-in compact rack for storage disk (Flash disk or hard disk included)	
1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)				1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)	
2 Ethernet 10/100/1000 Mbps					
1 USB 2.0 (1 A) on the front panel (only for Aluminum bezel version) + 4 USB 2.0 (0.5 and 1 A) at the top (for all models)					
2 RS-232C/1 DVI (VGA RGB adapter, optional)					
1 RS-232C/422/485 (option only available in made-to-order configuration) (1)					
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		—		HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)	
Windows XP Professional SP3		Windows 7 Ultimate 64-bit			
402 x 301 x 153 mm/383.5 x 282.5 mm (15.83 x 11.85 x 6.02 in./15.10 x 11.12 in.)		402 x 301 x 119 mm/383.5 x 282.5 mm (15.83 x 11.85 x 4.68 in./15.10 x 11.12 in.)		402 x 301 x 168 mm/383.5 x 282.5 mm (15.83 x 11.85 x 6.61 in./15.10 x 11.12 in.)	
0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508					
1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz
3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz
—					
15 g/11 ms conforming to IEC 60068-2-27 test Ea					
☐ CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST					
☐ EN 1672-2 Food and beverage processing machines and FDA 21CFR 177.206 specific seals (Stainless steel bezel versions only)					
—					
ATEX II 3 Dust zone 22 (Stainless steel bezel versions only)					
☐ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC).					
☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPA ZZ.					
—	HMIPUH7D2P01	HMIPPF7D0701	HMIPPH7D0701	—	HMIPPH7D2701
—	—	—	—	—	—
—	—	—	—	—	HMIPPH7B2701
—	—	HMIPPF7D07F1	—	—	—
HMIPUF7A2P01	HMIPUH7A2P01	—	HMIPPH7A0701	HMIPPF7A2701	HMIPPH7A2701
HMIPUF7A2PF1	—	—	—	HMIPPF7A27F1	—
HMIPTF7D2P01	HMIPTH7D2P01	—	—	—	—
—	—	—	—	—	HMIPRH7A2701
3/22		3/23			
See configured Magelis Panel PC on page 3/29					

(3) Conforming to IEC 60068-2-6 Fc.



Industrial PCs
Magelis iPCs for automation
Magelis HMIP Panel PC
Universal and Performance ranges with 19" touch screen

Type		Universal range - 19" touch screen (no PCI slot)		
Industrial environments		Maintenance-free (with Aluminum bezel)		Standard (with Aluminum bezel)
				
Fanless		★★★★★	★★★★★	★★★★★
Non-rotative storage drive		★★★★★	★★★★★	—
Screen	Type	19" LCD TFT LED touch screen		
	Resolution	SXGA 1280 x 1024, 16 M colors		
	Degree of protection	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door		
	Front panel bezel material	Aluminum		
CPU (1)	Processor	Intel ATOM N270 (1.6 GHz)		
	PCI slot	—		
	Storage	Compact Flash card ≥ 4 GB (SLC technology)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB
		2 GB	2 GB	2 GB
		—		
		1 slide-in compact rack for storage disk		
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 4x USB 2.0 (0.5 and 1 A) at the top 2 RS-232C/1 DVI (VGA RGB adapter, optional) 1 RS-232C/422/485 (option only available in made-to-order configuration) (1)		
	Optional ports (1)	—		
	Optional RAID PCI card			
Operating system		Windows® Embedded Standard 2009	Windows XP Professional SP3	
Overall dimensions (W x H x D)/Cut-out (W x H)		480 x 380 x 114 mm/459.5 x 359.5 mm (18.90 x 14.96 x 4.49 in./18.09 x 14.15 in.)		
Temperature	During operation	0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508		
	Vibration resistance during operation	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz
		Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz
		Merchant navy IACS E10	1 mm/0.04 in amplitude from 3...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	—
Shock resistance		15 g/11 ms conforming to IEC 60068-2-27 test Ea		
Standards and certifications		CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST		
Marine certification	Germanischer Lloyd (Bridge Class)	24 V ~ only with additional power supply filter HMIYLFIMAR11		—
HMI Software		□ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). □ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.		
References (1)	24 V ~	HMIPUC9D0E01	HMIPUF9D0P01	HMIPUH9D0P01
	24 V ~ Vijeo Citect Lite 1200 I/O	—	—	—
	24 V ~ Vijeo Citect Full 500 I/O	—	HMIPUF9D0PF1	—
	100...240 V ~	—	—	HMIPUH9A0P01
	100...240 V ~ Vijeo Citect Full 500 I/O	—	—	—
Pages		3/24		
Made-to-order configuration		See configured Magelis Panel PC on page 3/29		

(1) Other options available (interface for backup battery, 3rd serial port, etc.) in made-to-order configuration (see page 3/26).
(2) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 3/26).

Universal range - 19" touch screen (2 PCI slots)		Performance range - 19" touch screen (no PCI slot)		Performance range - 19" touch screen (2 PCI slots)	
Maintenance-free (with Aluminum bezel)	Standard (with Aluminum bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum bezel)	Harsh (with Aluminum bezel)	Standard (with Aluminum bezel)
					
★★★★★	★★★★★	—	—	—	—
★★★★★	—	★★★★★	—	★★★★★	—
19" LCD TFT LED touch screen					
SXGA 1280 x 1024, 16 M colors					
IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door					
Aluminum					
Intel ATOM N270 (1.6 GHz)		Intel Core 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset			
2 slots(1 PCI + 1 PCI Express)		—		2 slots (1 PCI + 1 PCI Express)	
SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Enterprise 24/7 hard disk ≥ 500 GB
2 GB	2 GB	4 GB	4 GB	4 GB	4 GB
1	—	—		1	
1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)		1 slide-in compact rack for storage disk		1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)	
2 Ethernet 10/100/1000 Mbps					
1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top					
2 RS-232C/1 DVI (VGA RGB adapter, optional)					
1 RS-232C/422/485 (option only available in made-to-order configuration) (1)					
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		—		HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)	
Windows XP Professional SP3		Windows 7 Ultimate 64-bit			
480 x 380 x 153 mm/459.5 x 359.5 mm (18.90 x 14.96 x 6.02 in./18.09 x 14.15 in.)		480 x 380 x 129 mm/459.5 x 359.5 mm (18.90 x 14.96 x 5.08 in./18.09 x 14.15 in.)		480 x 380 x 168 mm/459.5 x 359.5 mm (18.90 x 14.96 x 6.61 in./18.09 x 14.15 in.)	
0...50 °C/32...122 °F, conforming to IEC 61132-2, UL 508					
1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. from 2...9 Hz, 0.5 g from 9...200 Hz (3)	0.125 g from 5...100 Hz
3.5 mm/0.14 in from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. from 2...9 Hz, 1 g from 9...200 Hz (3)	0.250 g from 5...100 Hz
—					
15 g/11 ms conforming to IEC 60068-2-27 test Ea					
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), C-Tick, GOST					
—					
☐ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.					
—	HMIPUH9D2P01	HMIPPF9D0701	HMIPPH9D0701	—	HMIPPH9D2701
—	—	—	—	—	—
—	—	HMIPPF9D07F1	—	—	—
HMIPUF9A2P01	HMIPUH9A2P01	—	HMIPPH9A0701	HMIPPF9A2701	HMIPPH9A2701
HMIPUF9A2PF1	—	—	—	HMIPPF9A27F1	—
3/24		3/25			
See configured Magelis Panel PC on page 3/29					

(3) Conforming to IEC 60068-2-6 Fc.

Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC

Universal and Performance ranges with 15" or 19" touch screen



15" and 19" Magelis Panel PC

Presentation

The Magelis HMIP Panel PC, Universal and Performance ranges with 15" and 19" touch screens offer products that are rugged and certified for automation applications.

Both ranges are suitable for various uses in the following environments:

- Maintenance-free
- Harsh
- Standard

The Magelis HMIP 15" screen with a stainless steel front panel bezel and ATEX certification is recommended for targeted sectors such as the food and beverage, chemical, pharmaceutical, and oil and gas industries.

The 15" and 19" HMIPs are LCD TFT LED 16 M color touch screens with IP 65 front panel protection when mounted on a panel or an enclosure door.

The modular design of the Panel PCs provides a complete and coherent offer of referenced products with the Universal and Performance ranges. In addition to the referenced offer, the flexibility offered by the modular design allows made-to-order Magelis Panel PCs (see page 3/27).

Overview of the range

Magelis HMIP Universal with 15" and 19" touch screens (1) (2)

The Magelis Universal Panel PC with 15" and 19" touch screens is equipped with a fanless Intel® ATOM™ N270 processor (1.6 GHz) and DDR2 RAM (3).

This range is designed for the following environments:

- Maintenance-free environment (fanless, with solid-state storage disk):
 - **HMIPUC7D0E01** and **HMIPUC9D0E01**:
 - No PCI slot
 - Compact Flash card/Windows® Embedded Standard 2009
 - 24 V $\overline{\text{---}}$ power supply
 - **HMIPUF7D0P01**, **HMIPUF7D0PL1**, **HMIPUF7A0P01**, **HMIPUF9D0P01** and **HMIPUF9D0PF1**:
 - No PCI slot
 - SSD flash disk/Windows XP Professional SP3
 - 24 V $\overline{\text{---}}$ or 100...240 V $\sim$ power supply
 - **HMIPUF7A2P01**, **HMIPUF7A2PF1**, **HMIPUF9A2P01** and **HMIPUF9A2PF1**:
 - 1 PCI + 1 PCI Express®
 - SSD flash disk/Windows XP Professional SP3
 - 100...240 V $\sim$ power supply
- Maintenance-free (fanless, with solid-state storage disk and Stainless steel front panel bezel):
 - **HMIP7D2P01**:
 - 1 PCI + 1 PCI Express
 - SSD flash disk/Windows XP Professional SP3
 - 24 V $\overline{\text{---}}$ power supply
- Standard industrial environment (with hard disk):
 - **HMIPUH7D0P01**, **HMIPUH7A0P01**, **HMIPUH9D0P01** and **HMIPUH9A0P01**:
 - No PCI slot
 - Hard disk/Windows XP Professional SP3
 - 24 V $\overline{\text{---}}$ or 100...240 V $\sim$ power supply
 - **HMIPUH7D2P01**, **HMIPUH7A2P01**, **HMIPUH9D2P01** and **HMIPUH9A2P01**:
 - 1 PCI + 1 PCI Express
 - Hard disk/Windows XP Professional SP3
 - 24 V $\overline{\text{---}}$ or 100...240 V $\sim$ power supply
- Standard industrial environment (with hard disk and Stainless steel front panel bezel):
 - **HMIP7H2P01**:
 - 1 PCI + 1 PCI Express
 - SSD flash disk/Windows XP Professional SP3
 - 24 V $\overline{\text{---}}$ power supply

(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express 4x.

(2) For description, see pages 3/20 and 3/21.

(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC

Universal and Performance ranges with
15" or 19" touch screen

Presentation (continued)

Overview of the range (continued)

Magelis HMIP Performance with 15" and 19" touch screens (1) (2)

The Magelis Panel PC Performance range is equipped with the Intel Core™ 2 Duo P8400 processor (2.26 GHz) + Intel GM45 Chipset and DDR3 RAM (3).

This range is designed for the following environments:

- Harsh industrial environment (with solid-state storage disk):
 - **HMIPPF7D0701, HMIPPF7D07F1, HMIPPF9D0701 and HMIPPF9D07F1:**
 - No PCI slot
 - SSD flash disk/Windows 7 Ultimate 64-bit
 - 24 V $\overline{\text{---}}$ power supply
 - **HMIPPF7A2701, HMIPPF7A27F1, HMIPPF9A2701 and HMIPPF9A27F1:**
 - 1 PCI + 1 PCI Express
 - SSD flash disk/Windows 7 Ultimate 64-bit
 - 100...240 V $\sim$ power supply
- Standard industrial environment (with hard disk):
 - **HMIPPH7D0701, HMIPPH7A0701, HMIPPH9D0701 and HMIPPH9A0701:**
 - No PCI slot
 - Hard disk/Windows 7 Ultimate 64-bit
 - 24 V $\overline{\text{---}}$ or 100...240 V $\sim$ power supply
 - **HMIPPH7D2701, HMIPPH7B2701 (4), HMIPPH7A2701, HMIPPH9D2701 and HMIPPH9A2701:**
 - 1 PCI + 1 PCI Express
 - Hard disk/Windows 7 Ultimate 64-bit
 - 24 V $\overline{\text{---}}$ or 100...240 V $\sim$ power supply
- Standard industrial environment (with hard disk and Stainless steel front panel bezel):
 - **HMIPRH7A2701:**
 - 1 PCI + PCI Express
 - Hard disk/Windows 7 Ultimate 64-bit
 - 100...240 V $\sim$ power supply

Made-to-order Magelis HMIP Universal and Performance

On Magelis Universal and Performance Panel PC bases, you can customize the CPU by selecting:

- the Compact Flash card and RAM capacity
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional assembled options: PCI RAID card with 2 redundant hard disks (5), interface for backup battery, interface for battery-backed power supply module, third RS 485 port, etc.

For more information on the HMIPCC offer, see page 3/29.

USB accessories for HMI terminals

Magelis USB accessories are designed to expand the range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals (6).

The Magelis USB accessories supported by Magelis Panel PC include:

- Harmony XB5S biometric USB switch
- Magelis HMIZ illuminated USB switch

For more information on HMI USB accessories, please refer to our website www.schneider-electric.com/USB accessories for Magelis terminals.

(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express 4x.

(2) For description, see pages 3/20 and 3/21.

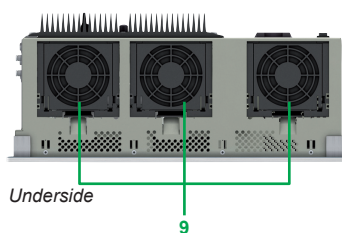
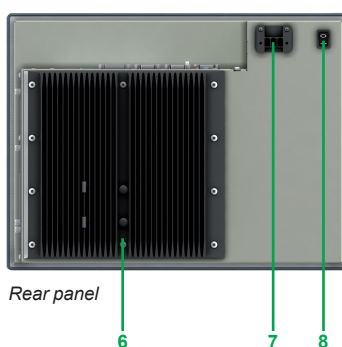
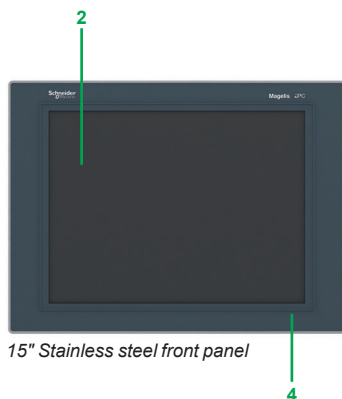
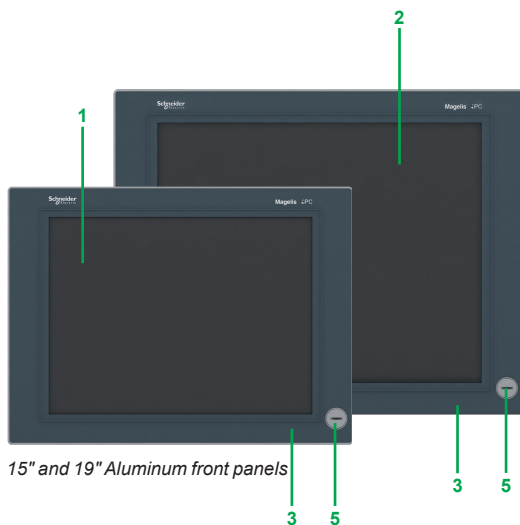
(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Supplied with an inserted interface module (battery-backed).

(5) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(6) Requires Vijeo Designer software running on Magelis Panel PC, not compliant with WES operating systems.

3



15" or 19" Magelis Panel PC

Description

Magelis HMIP Universal and Performance:

15" (Aluminum and Stainless steel bezel) and 19" (Aluminum bezel)

Front panels

- 1 15" LCD TFT LED touch screen, XGA 1024 x 768, 16 M colors for **HMIP●●7●●●●●●**:
 - Brightness: 350 cd/m² (adjustable)
 - Type of touch panel: analog resistive film, 4096 x 4096 resolution
 - Typical viewing angle: 100° (vertically)/160° (horizontally)
- 2 19" LCD TFT LED touch screen, SXGA 1280 x 1024, 16 M colors for **HMIP●●9●●●●●●**:
 - Brightness: 300 cd/m² (adjustable)
 - Type of touch panel: analog resistive film, 4096 x 4096 resolution
 - Typical viewing angle: 100° (vertically)/160° (horizontally)
- 3 Aluminum alloy front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
 - Mounted on a 1.6...10 mm/0.063...0.394 in. thick support using the screw fasteners supplied (1)
- or
- 4 Stainless steel 304 "Scotch Brite®" brushed finish front panel providing IP 65 and Nema 4X indoor front panel protection when mounted on a panel or an enclosure door:
 - Mounted on a 1.6...10 mm/0.063...0.394 in. thick support using the stainless steel screw fasteners supplied (1)
 - Simplified cleaning because of the absence of a USB port on front panel (conforms to food and beverage processing machines standard EN 1672-2)
 - Version fitted with special seals (standard FDA 21 CFR 177.206)
- 5 USB 2.0 port (1 A max.) with screw-on protective cover (only available for Aluminum version):
 - Captive protective cover option also available (2)

Rear panel

- 6 Heat sink (1)
- 7 Connector for Panel PC 100...240 V ~/1.6 A power supply (Panel PC **HMI●●●●A●●●●**) (3)
- 8 On/Off switch for 100...240 V ~ power supply (Panel PC **HMI●●●●A●●●●**)

Underside

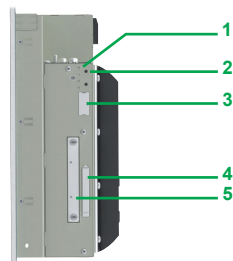
- 9 Fans (Panel PC **HMIPP●●●●●●●●**) (4)
Natural convection (Panel PC **HMIPU●●●●●●●●**) (1)

(1) For installation, please refer to the product data sheets of respective product references.

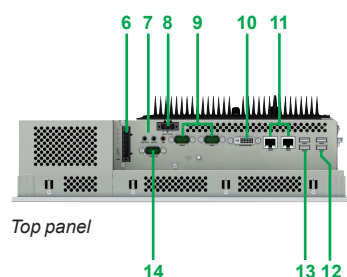
(2) To be ordered separately (see page 3/26).

(3) Consumption excluding additional PCI card.

(4) Can be replaced with the Panel PC fan kit by the customer (to be ordered separately, see page 3/26).

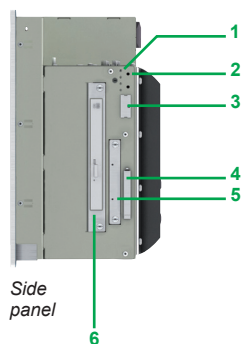


Side panel

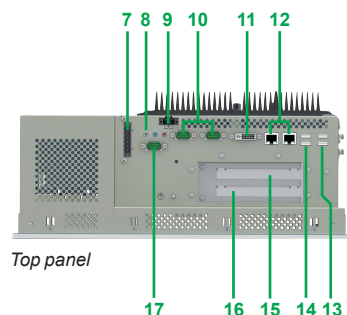


Top panel

15" or 19" Magelis Panel PC, no PCI slot



Side panel



Top panel

15" or 19" Magelis Panel PC, 2 PCI slots

Description (continued)

Magelis HMIP Universal and Performance: 15" and 19", no PCI slot

Side panel

- 1 4 status and power supply LEDs
- 2 2 pushbuttons: 1 for power supply and 1 for resetting
- 3 Battery
- 4 Slot for Compact Flash card:
 - With Compact Flash card (SLC technology) ≥ 4 GB (Panel PC **HMIPUC•D0E01**)
 - Free slot (Panel PC **HMIP•F•••0••1**, **HMIP•H•••0••1**)
- 5 Slide-in compact rack:
 - Free slot (Panel PC **HMIPUC•D0E01**)
 - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIP•F•••0••1**)
 - With hard disk ≥ 500 GB (Panel PC **HMIP•H•••0••1**)

Top panel

- 6 Free slot for battery-backed power supply interface module (1)
- 7 Micro input, line input/line output
- 8 Connector for Panel PC 24 V $\overline{\text{---}}/7$ A power supply (Panel PC **HMIP••••D0••1**) (2)
- 9 2 RS-232C ports
- 10 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 11 2 Ethernet 10/100/1000 Mbps ports
- 12 2 USB 2.0 ports (1 A max.)
- 13 2 USB 2.0 ports (0.5 A max.)
- 14 Slot for additional RS-232C/422/485 serial link interface; to be ordered separately in made-to-order configurations (1)

Magelis HMIP Universal and Performance: 15" and 19", 2 PCI slots

Side panel

- 1 4 status and power supply LEDs
- 2 2 pushbuttons: 1 for power supply and 1 for resetting
- 3 Battery
- 4 Free slot for Compact Flash card
- 5 Slide-in compact rack:
 - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Panel PC **HMIP•F••••••1**)
 - With hard disk ≥ 500 GB (Panel PC **HMIP•H•••2••1**)
- 6 Slide-in rack with the DVD-RW drive included (3); can be used for an additional storage disk with adapter (**HMIYADSLIDEIN11**) (4)

Top panel

- 7 Slot for battery-backed power supply interface module:
 - Module mounted on Panel PC **HMIPPH7B2701**
 - Module not included as standard on other models (1)
- 8 Micro input, line input/line output
- 9 Connector for Panel PC 24 V $\overline{\text{---}}/7$ A power supply (Panel PC **HMIP•D••••••1**) (2)
- 10 2 RS-232C ports
- 11 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 12 2 Ethernet 10/100/1000 Mbps ports
- 13 2 USB 2.0 ports (1 A max.)
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 Half-format PCI Express 4x slot
- 16 Half-format PCI 2.2 slot
- 17 Slot for additional RS-232C/422/485 serial link interface; to be ordered separately in made-to-order configurations (1)

(1) To be ordered separately in made-to-order configurations (see page 3/27).

(2) Consumption excluding additional PCI card.

(3) Operating temperature details available on our website
[www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

(4) To be ordered separately as an accessory (see page 3/26).

Industrial PCs

Magelis iPCs for automation

Magelis HMIP Panel PC

Universal range - 15" touch screen

PF110314



HMIPU700001
(Screen side)

PF110378



HMIPTF7D2P01
HMIPTH7D2P01
(Screen side)

PF110341



HMIPU7A0P01
(CPU side)

PF110327



HMIPU7A2P01
(CPU side)

PF110340



HMIPUH7D2P01
(CPU side)

Magelis HMIP Universal: 15" LCD TFT LED touch screen (1) (2)

Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM

Supply voltage PCI slot	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg/lb
For maintenance-free environment (with Aluminum front panel bezel)						
24 V $\overline{\text{---}}$ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Compact Flash (SLC technology) ≥ 4 GB	2 GB	HMIPUC7D0E01	8.900/ 19.621
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPUF7D0P01	9.000/ 19.842
		Vijeo Designer RT Demo (5) Vijeo Citect Lite 1200 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPUF7D0PL1	9.000/ 19.842
100...240 V $\sim$ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPUF7A0P01	9.500/ 20.943
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPUF7A2P01	10.900/ 24.030
		Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPUF7A2PF1	10.900/ 24.030

For maintenance-free environment (with Stainless steel front panel bezel)

24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIPTF7D2P01	11.100/ 24.471
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For standard industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	HMIPUH7D0P01	9.000/ 8.818
24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	HMIPUH7D2P01	10.300/ 22.708
100...240 V $\sim$ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	HMIPUH7A0P01	9.500/ 20.943
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	HMIPUH7A2P01	10.900/ 24.030

For standard industrial environment (with Stainless steel front panel bezel)

24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk ≥ 500 GB	2 GB	HMIPTH7D2P01	11.100/ 24.471
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(1) 15" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework .Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer RT Demo (5)

(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTMCLZSPAZZ.



HMIPPF7A0001
(Screen side)



HMIPPF7A2701
(Screen side)



HMIPPF7A0701
(CPU side)



HMIPPF7A2701
(CPU side)



HMIPPH7D2701
(CPU side)

Magelis HMIP Performance: 15" LCD TFT LED touch screen ^{(1) (2)}

Intel Core 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM ⁽³⁾	Reference	Weight kg/lb
For harsh industrial environment (with Aluminum front panel bezel)						
24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF7D0701	10.100/ 22.267
		Vijeo Designer RT Demo ⁽⁴⁾ Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF7D07F1	10.100/ 22.267

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF7A2701	12.000/ 26.455
		Vijeo Designer RT Demo ⁽⁴⁾ Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF7A27F1	12.000/ 26.455

For standard industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH7D0701	10.100/ 22.267
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24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH7D2701	11.400/ 25.133
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24 V $\overline{\text{---}}$ with interface for backup battery	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH7B2701	11.400/ 25.133
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100...240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH7A0701	10.600/ 23.368
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100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH7A2701	12.000/ 26.455
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For standard industrial environment (with Stainless steel front panel bezel)

100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPRH7A2701	12.200/ 26.896
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(1) 15" touch screen: XGA 1024 x 768, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.

PF110313

HMIPU900001
(screen side)

PF110326

HMIPU9A2P01
(CPU side)

PF110343

HMIPUH9D2P01
(CPU side)

PF110342

HMIPUH9A0P01
(CPU side)
Magelis HMIP Universal: 19" LCD TFT LED touch screen (1) (2)
(Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM)

Supply voltage PCI slot	Operating system	Software	Storage	DDR2 RAM (3)	Reference	Weight kg/lb
For maintenance-free environment (with Aluminum front panel bezel)						
24 V $\sim$ No PCI slot	Windows Embedded Standard 2009 (4)	Vijeo Designer RT Demo (5)	Compact Flash (SLC technology) $\geq$ 4 GB	2 GB	HMIPUC9D0E01	13.600/ 29.983
	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	HMIPUF9D0P01	13.700/ 30.203
		Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	HMIPUF9D0PF1	13.700/ 30.203
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	HMIPUF9A2P01	14.700/ 32.408
		Vijeo Designer RT Demo (5) Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	2 GB	HMIPUF9A2PF1	15.500/ 34.172
For standard industrial environment (with Aluminum front panel bezel)						
24 V $\sim$ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	HMIPUH9D0P01	13.700/ 30.203
24 V $\sim$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	HMIPUH9D2P01	15.000/ 33.069
100...240 V $\sim$ No PCI slot	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	HMIPUH9A0P01	14.300/ 31.526
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (5)	Enterprise 24/7 hard disk $\geq$ 500 GB	2 GB	HMIPUH9A2P01	15.500/ 34.172

(1) 19" touch screen: SXGA 1280 x 1024, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer Run Time Demo (5)

(5) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.



HMIP90001
(Screen side)



HMIP9A2701
(CPU side)



HMIPPH9D2701
(CPU side)



HMIPPH9A0701
(CPU side)

Magelis HMIP Performance: 19" LCD TFT LED touch screen^{(1) (2)} (Intel Core 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM)

Supply voltage PCI slot	Operating system	Software	Storage	DDR3 RAM ⁽³⁾	Reference	Weight kg/lb
For harsh industrial environment (with Aluminum front panel bezel)						
24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF9D0701	14.800/ 32.628
		Vijeo Designer RT Demo ⁽⁴⁾ Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF9D07F1	14.800/ 32.628
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF9A2701	16.600/ 36.596
		Vijeo Designer RT Demo ⁽⁴⁾ Vijeo Citect Full 500 I/O	SSD flash disk $\geq$ 60 GB with 2 million hours MTBF	4 GB	HMIPPF9A27F1	16.600/ 36.596

For standard industrial environment (with Aluminum front panel bezel)

24 V $\overline{\text{---}}$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH9D0701	14.800/ 32.628
24 V $\overline{\text{---}}$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH9D2701	16.100/ 35.494
100...240 V $\sim$ No PCI slot	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH9A0701	15.400/ 33.951
100...240 V $\sim$ 1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo ⁽⁴⁾	Enterprise 24/7 hard disk $\geq$ 500 GB	4 GB	HMIPPH9A2701	16.500/ 36.376

(1) 19" touch screen: SXGA 1280 x 1024, 16 M colors, IP 65 and Nema 4X indoor front panel protection when mounted on panel or an enclosure door.

(2) For separate components, software and external power supply, see page 3/26.

(3) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 3/27).

(4) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC), (see page 3/28). Vijeo XD RT Demo to be installed and activated with the unlimited license HMIRTM CZLSPAZZ.

Separate components					
Description	Details	Compatible with Magelis HMIP ranges:			Reference
		Optimum	Universal	Performance	
Hard disk drive	500 GB, blank	-	12" HMIP		HMIYHDD50061
SSD flash disk with 2 million hours MTBF	60 GB, blank	-	12" HMIP		HMIYSDD06061
	128 GB, blank	-	12" HMIP		HMIYSDD18061
CFast card (SLC technology)	4 GB, blank	-	12" HMIP		HMIYCFA04
	8 GB, blank	-	12" HMIP		HMIYCFA08
	16 GB, blank	-	12" HMIP		HMIYCFA16
DVD-RW drive for slide-in slot (1)	CD-RW and DVD-RW reader/writer	-	12" HMIP		HMIYDRDVDRW61
RAM expansion DDR3	2 GB for 1 slot	-	12" HMIP		HMIYPRAM302061
	4 GB for 1 slot	-	12" HMIP		HMIYPRAM304061
	8 GB for 1 slot	-	12" HMIP		HMIYPRAM308061
Interface module	Additional serial link RS-232/422/485	-	12" HMIP		HMIYPINSL61
	SRAM for Vijeo Designer	-	12" HMIP		HMIYPINSRAM61
	Battery backup interface	-	12" HMIP		HMIYPUPIINT61
Backup power supply kit	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m/9.842 ft cordset	-	12" HMIP (requires battery backup interface HMIYPUPIINT61)		HMIYUPSKT61
Slide-in adapter for storage disk (2)	To insert a hard disk, an SSD flash disk, or a CFast card with adapter, in a slide-in slot	-	12" HMIP		HMIYADSLIDEIN61
Slide-in compact adapter for CFast card (2)	To insert a CFast card in a slide-in compact slot	-	12" HMIP		HMIYADCFAST61
Expansion module slots	Module with 1 PCI + 1 slide-in slots	-	12" HMIP		HMIYPCI161
	Module with 1 PCI Express + 1 slide-in slots	-	12" HMIP		HMIYPCIC61
	Module with 1 PCI + 1 PCI Express + 1 slide-in slots	-	12" HMIP		HMIYPCI261
	Module with 2 PCI + 1 slide-in slots	-	12" HMIP		HMIYPCIA61
AC to DC power supply module	To replace or add an AC power module	-	12" HMIP		HMIYPMAC61
Maintenance kit for HMIP includes:	1 x 3-way removable connector for 24 V $\pm$ power supply 1 x 3-way removable connector for 100...240 V $\sim$ power supply 18 screw fasteners 2 front USB port caps 5 Fan filters	-	12" HMIP		HMIYPMKT61
Fan kit for HMIP	To replace or add a fan	-	12" HMIP		HMIYPFKT061
Screen protection	5 sheets of protective film for 12" screen	-	12" HMIP		MPCYK20SPSKIT

(1) Operating temperature details are available on our website www.schneider-electric.com/HMI/Industrial_PC_and_Display.

(2) The user has to check that the third-party drives are compliant.

Separate components

Description	Details	Compatible with Magelis HMIP HMIP ranges:			Reference	Weight kg/lb
		Optimum	Universal	Performance		
Storage disks, peripheral equipment, kits						
Hard disk	500 GB, blank	—	15" and 19" HMIPs		HMIYHDD050011	—
SSD flash disk with 2 million hours MTBF	60 GB, blank	—	15" and 19" HMIPs		HMIYSDD006011	—
	128 GB, blank	—	15" and 19" HMIPs		HMIYSDD012011	—
Compact Flash card (SLC technology)	2 GB, blank	10", 15" and 19" HMIPs		HMIYCFS0211	—	
	4 GB, blank	10", 15" and 19" HMIPs		HMIYCFS0411	—	
	8 GB, blank	10", 15" and 19" HMIPs		HMIYCFS0811	—	
SD memory card	4 GB, blank, for user data	All models	—		HMIZSD4G	—
DVD-RW drive for slide-in rack (1)	CD-RW and DVD-RW reader/writer	—	15" and 19" HMIPs with 2 PCI slots		HMIYDRDVRW11	—
Slide-in adapter for storage disk (3)	Used to insert a hard disk or an SSD flash disk in a slide-in rack	—	15" and 19" HMIPs with 2 PCI slots		HMIYADSLIDEIN11	—
DVI/VGA RGB adapter	For connecting an RGB screen to the integrated DVI port	—	All models		HMIYADDVIRGB11	—
RAID PCI card with 2 redundant hard disks (1)	PCI card equipped with two redundant hard disks Enterprise 24/7 ≥ 500 GB	—	15" and 19" HMIPs with 2 PCI slots		HMIYRAIDPCI11	—
Hard disk for RAID PCI card	Replacement hard disk for RAID PCI card HMIYRAIDPCI11	—	15" and 19" HMIPs with 2 PCI slots + RAID PCI card HMIYRAIDPCI11		HMIYRAID050011	—
Backup power supply kit	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m/9.842 ft cordset	—	Configured Magelis 15" and 19" HMIPs with battery-backed power supply interface module (2)		HMIYUPSKT11	—
Power supply filter for marine certification	Necessary for compliance with marine certification.	HMIP HMI PWC7D0E01	15" and 19" HMIPs universal DC PUC●D●●●●/ PUF●D●●●●	—	HMIYLFIMAR11	—
Maintenance kit for Panel PC	Includes: ■ 1x 3-way removable connector for 24 V ~ power supply ■ 1x 3-way removable connector for 100...240 V ~ power supply ■ 2 protective covers for USB port on front panel (only on Aluminum bezel versions) ■ 10 replacement filters for fan, including: □ 5 for Magelis Panel PC with no PCI slot □ 5 for Magelis Panel PC with 2 PCI slots ■ 18 screw fasteners (Aluminum bezel) or 14 fasteners (Stainless steel bezel)	—	15" and 19" HMIPs		HMIYPMKT11	0.060/ 0.132
Captive USB protective cover	2 captive covers for USB port on front panel	All Aluminum bezel version models			HMIYPUSBUN511	0.040/ 0.088
Fan kit for HMIP	For fan replacement by user	—	15" and 19" HMIPs with no PCI/PCI Express slots		HMIYPFKT01	0.250/ 0.551
			15" and 19" HMIPs with PCI/PCI Express slots		HMIYPFKT21	0.800/ 1.764
Screen protection	5 sheets of protective film for 10" screen	HMIP HMI PWC5D0E01	—		MPCYK20SPSKIT	—
	5 sheets of protective film for 15" screen (Aluminum and Stainless steel bezel versions)	HMIP HMI P●C7D0E01	HMIP HMIP●●●7●●●●●		MPCYK50SPSKIT	—
	5 sheets of protective film for 19" screen	—	HMIP HMIP●●●9●●●●●		MPCYK90SPSKIT	—
Cable for iDisplay 15"	Extra long (10 m/3.28 ft)	—	All models		HMIYCABDVI1011	—

(1) Operating temperature details are available on our website www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(2) For configured Magelis Panel PCs, see page 3/27.

(3) The user has to check that the third-party drives are compliant.

Separate components

Description	Details	Compatible with Magelis HMIP ranges:			Reference	Weight kg/lb
		Optimum	Universal	Performance		
Software						
Vijeo Designer RT license for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license	All models			VJDSNRTMPC	—
License extension Intelligent Data Service for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)			VJDSNTRCKV60M	—
External Phaseo power supply						
Phaseo regulated switch mode power supply ABL8 Rail mounting	Input voltage: 100...120 V/200...500 V ~ (1) Output voltage: 24 V --- Power: 120 W	All models	—		ABL8RPS24050 (2) (3)	—
Phaseo regulated switch mode power supply ABL4 Rail mounting	Input voltage: 100...230 V ~ (1) Output voltage: 24 V --- Power: 120 W	All models	—		ABL4RSM24050 (2) (3)	—

(1) Single-phase connection. Phase-to-phase connection is possible on certain American line supplies. For more information, please contact our Customer Care Center.

(2) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please refer to the "Phaseo power supply and transformer" catalog on our website www.schneider-electric.com/Phaseo power supplies and transformers.

(3) To order this reference, please contact our Customer Care Center.

Configured Magelis HMIP

With the "configured iPC" service, Schneider Electric offers a vast number of configuration combinations for Magelis iPCs.

This service, available exclusively from our Customer Care Center, allows users to configure a certified product suitable for specific automation applications and environments, based on Magelis Panel PCs.

Our Customer Care Center draws up:

- the complete parts list for the configured Magelis HMIP
- the selling price
- the complete reference (root + code which varies according to the configuration)
- the purchase order

Ordering procedure for a configured Magelis HMIP

- 1 Please contact our Customer Care Center.
- 2 State the reference root; this root will be completed with the variable part of the reference, once configuration is complete. The root varies depending on which Magelis HMIP base is selected:
 - **HMIPCCW** corresponds to a configured Magelis Optimum HMIP base, with an Aluminum front panel
 - **HMIPCCV** corresponds to a configured Magelis Optimum HMIP base, with a stainless steel front panel
 - **HMIPCCP** corresponds to a configured Magelis Universal or Performance Panel PC base, with an Aluminum front panel
 - **HMIPCCT** corresponds to a configured Magelis Universal or Performance Panel PC base, with a stainless steel front panel
- 3 Configure your Magelis Panel PC (see table below).
- 4 Confirm your order.

References					
Description		Magelis HMIP base		Reference	Weight kg/lb
Configured Magelis HMIP The configuration should be made up from the components below. (1)	Reference root to be stated to our Customer Care Center.	Optimum, Aluminum front panel bezel		HMIPCCW (2)	—
		Optimum, stainless steel front panel bezel (15" screen only)		HMIPCCV (2)	—
		Universal and Performance, Aluminum front panel bezel		HMIPCCP (2)	—
		Universal and Performance, stainless steel front panel bezel (15" screen only)		HMIPCCT (2)	—
Description	Available on Magelis HMIP Panel PC base			Reference	Weight kg/lb
	Optimum Processor Intel® ATOM™ Z510 (1.1 GHz) DDR2 RAM 24 V ~ power supply	Universal Processor Intel ATOM N270 or iCore 827E DDR2 or DDR3 RAM 24 V ~ or 100...240 V ~ power supply	Performance Processor Intel Core™ 2 Duo P8400 or i3 iCore DDR3 RAM 24 V ~ or 100...240 V ~ power supply		
LCD TFT LED touch screen 16 M colors	10.4" or 15"	12", 15" or 19"		(2)	—
RAM	2 GB max. (DDR2)	3 GB max. for 15" and 19" 16 GB max. for 12"	8 GB max. for 15" and 19" 16 GB max. for 12"		
Peripheral storage devices	Compact Flash card 8 GB max. or CFast card 16 GB max. (SLC technology)				
	—	Up to 2 SSD flash disks ≥ 128 GB with 2 million hours MTBF			
	—	Up to 2 hard disks ≥ 500 GB (Enterprise 24/7)			
Other peripheral device	—	DVD-RW drive			
PCI slot configuration	—	No PCI slot			
	—	1 PCI + 1 PCI Express for 12" only			
	—	1 PCI + 1 PCI Express or 2 PCI			
Operating systems	Windows® Embedded Standard 2009				
	—	Windows Embedded Standard 7 32-bit			
		Windows XP PRO SP3			
		Windows 7 Ultimate 32-bit			
		Windows 7 Ultimate 64-bit			
Software	Vijeo Designer RT				
	—	Vijeo Citect			
Assembled options	—	RAID with 2 redundant hard disks			
	—	Interface module for backup power supply (4)			
	—	SRAM interface for 12" (default on others)			
		Additional RS-232C/422/485 serial link interface			
	1 or 2 Ethernet ports	2 Ethernet ports			

(1) Please contact our Customer Care Center.

(2) The reference for configured Magelis HMIPs is made up of a root (HMIPCCW, HMIPCCV, HMIPCCP or HMIPCCT) followed by a variable part generated during configuration.

(3) Required to connect backup power supply kits HMIYUPSKT●1 (see page 3/26).

Old PC Panels		Replaced by Magelis HMIP		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
Magelis Smart (with Compact Flash card)		Magelis HMIP (Optimum or Universal range)			
Magelis Smart 8.4" screen, 24 V ---	MPCST11NDJ00T	Magelis Optimum HMIP 10" screen, 24 V ---	HMIPWC5D0E01		
Magelis Smart 8.4" screen, 100...240 V ~	MPCST11NAJ00T	Magelis Optimum HMIP 10" screen, 24 V ---	HMIPWC5D0E01 + Phaseo power supply (1)		
Magelis Smart 12" screen, 24 V ---	MPCST21NDJ20T	Magelis Universal 12" HMIP screen, 24 V ---	HMIPUC6D0E01		
Magelis Smart 12" screen, 240 V ~	MPCST21NAJ20T	Magelis Optimum 15" HMIP screen, 24 V ---, ATEX	HMIPVC7D0E01		
Magelis Smart 15" screen, 24 V ---	HMIPSC7DE03 MPCST52NDJ20T	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUC6A0E01		
		Magelis Optimum 15" HMIP screen, 24 V ---	HMIPWC7D0E01		
		Magelis Optimum 15" HMIP screen, 24 V ---, ATEX	HMIPVC7D0E01 HMIPCCT (3)		
		Magelis Universal 15" HMIP screen, 24 V ---	HMIPUC7D0E01		
Magelis Smart 15" screen, 100...240 V ~	HMIPSC7AE03 MPCST52NAJ20T MPCST52NAJ20H	Magelis Optimum 15" HMIP screen, 24 V ---	HMIPWC7D0E01 + Phaseo power supply (1)		
		Magelis Universal 15" HMIP screen, 24 V ---	HMIPUC7D0E01 + Phaseo power supply (1)		
Magelis Smart+ (with flash disk)		Magelis HMIP (Universal range)			
Magelis Smart+ 15" screen, 24 V ---	HMIPSF7DP03	Magelis Universal 15" HMIP screen, 24 V ---	HMIPUF7D0P01		
		Magelis Universal 15" HMIP screen, 24 V ---, ATEX	HMIPTF7D2P01		
Magelis Smart+ 15" screen, 100...240 V ~	HMIPSF7AP03	Magelis Universal 15" HMIP screen, 100...240 V ~	HMIPUF7A0P01		
		Magelis Universal 15" HMIP screen, 100...240 V ~, ATEX	HMIPCCT (3)		
Magelis Smart+ 15" screen, 100...240 V ~ Vijeo Citect Lite 1200 I/O	HMIPSF7APL3 (2)	Magelis Universal 15" HMIP screen, 24 V --- Vijeo Citect Lite 1200 I/O	HMIPUF7D0PL1 (2)		
		Magelis Universal 15" HMIP screen, 100...240 V ~, ATEX	HMIPCCT (3)		
Magelis Smart+ 15" screen, 100...240 V ~ Vijeo Citect Full 500 I/O	HMIPSF7APF3	Magelis Universal 15" HMIP screen, 100...240 V ~ Vijeo Citect Full 500 I/O	HMIPUF7A2PF1		
		Magelis Universal 15" HMIP screen, 100...240 V ~, ATEX	HMIPCCT (3)		
Magelis Compact iPC - General Purpose (with hard disk)		Magelis HMIP (Universal range)			
Magelis Compact iPC - General Purpose 8.4" screen, HDD, 240 V ~	MPCKT12NAX00N	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUH6A0701 (4)		
Magelis Compact iPC - General Purpose 12" screen, 240 V ~	MPCKT22NAX20N	Magelis Optimum 10" HMIP screen, 24 V ---	HMIPWC5D0E01A (1)		
Magelis Compact iPC - General Purpose 15" screen, 24 V ---	MPCKT55NDX20N	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUH6A0701 (4)		
		Magelis Universal 15" HMIP screen, 24 V ---	HMIPUH7D2P01		
		Magelis Universal 15" HMIP screen, 24 V ---, ATEX	HMIPTH7D2P01		
Magelis Compact iPC General Purpose 15" screen, 100...240 V ~	MPCKT55NAX20N	Magelis Universal 15" HMIP screen, 100...240 V ~	HMIPUH7A2P01		
Magelis Compact iPC - Heavy Duty (with Flash disk)		Magelis HMIP (Universal range)			
Magelis Compact iPC - Heavy Duty 12" screen, 240 V ~	MPCKT22MAX20N	Magelis Universal 12" HMIP screen, 240 V ~	HMIPUF6A0701 (4)		
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~	MPCKT55MAX20N	Magelis Universal 15" HMIP screen, 100...240 V ~	HMIPUF7A2P01		
		Cut-out or screen definition	Identical		
			Different		

(1) ABL8RPS24050 or ABL4RSM24050 Phaseo power supply (see page 3/26).

(2) Correspondence between different power supplies: 100...240 V ~ / 24 V ---.

(3) Made-to-order configuration (see page 3/27).

(4) if necessary, add module HMIYPCI161 with 1 PCI slot (see page 3/26).

Old PC Panels		Replaced by Magelis HMIP		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
Magelis Compact iPC - Heavy Duty (with flash disk) (continued)		Magelis HMIP (Universal range) (continued)			
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~ Vijeo Citect Lite 1200 I/O	MPCKT55MAX20L	Magelis Universal 15" HMIP screen, 100...240 V ~ Vijeo Citect Full 500 I/O	HMIPUF7A2PF1		
		Configured Magelis HMIP Universal HMIP base with: ■ 15" screen, 100...240 V ~ ■ Vijeo Citect Lite 1200 I/O	HMIPCCP (5)		
Magelis Compact iPC - Heavy Duty 15" screen, 100...240 V ~ Vijeo Citect Full 500 I/O	MPCKT55MAX20V	Magelis Universal 15" HMIP screen, 100...240 V ~ Vijeo Citect Full 500 I/O	HMIPUF7A2PF1		
Old Front Panels + Flex PC Box		Replaced by Magelis iPC		Compatibility	
Description	References	Description	References (1)	Cut-out for flush mounting	Screen definition
Front Panels + Magelis Flex PC Box		Magelis HMIP or Magelis iDisplay + Magelis Box PC			
Front Panel with 12" touch screen and keypad + Magelis Flex PC Box 24 V ~ or 100...240 V ~ (2)	MPCYB20NNN00N + MPCF/H.....	Magelis Optimum/Universal/Performance HMIP 15" touch screen, 24 V ~ or 100...240 V ~	HMIP...7..... (3)		
		Magelis iDisplay with 15" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ~	MPCYT50NAN00N (3) + HMIB..... (4)		
		Magelis iDisplay with 15" screen, 24 V ~ + Magelis Universal/Performance HMIB, 24 V ~	HMIDID7DT0 (3) + HMIB..... (4)		
		Magelis iDisplay with 15" screen and keypad, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ~	MPCNB50NAN00N + HMIB..... (4)		
Front Panel with 15" touch screen + Magelis Flex PC Box 24 V ~ or 100...240 V ~ (2)	MPCYT50NNN00N + MPCF/H.....	Magelis Optimum/Universal/Performance HMIP 15" touch screen, 24 V ~ or 100...240 V ~	HMIP...7.....		
		Magelis iDisplay with 15" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ~	MPCYT50NAN00N + HMIB..... (4)		
		Magelis iDisplay with 15" screen, 24 V ~ + Magelis Universal/Performance HMIB, 24 V ~	HMIDID7DT0 + HMIB..... (4)		
Front Panel with 15" touch screen and keypad + Magelis Flex PC Box 24 V ~ or 100...240 V ~ (2)	MPCYB50NNN00N + MPCF/H.....	Magelis iDisplay with 15" screen and keypad, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ~	MPCNB50NAN00N + HMIB..... (4)		
Front Panel with 19" touch screen + Magelis Flex PC Box 24 V ~ or 100...240 V ~ (2)	MPCYT90NNN00N + MPCF/H.....	Magelis Universal/Performance HMIP 19" touch screen, 24 V ~ or 100...240 V ~	HMIP...9.....		
		Magelis iDisplay with 19" screen, 100...240 V ~ + Magelis Universal/Performance HMIB, 24 V ~	MPCYT90NAN00N + HMIB..... (4)		
			Cut-out or screen definition	Identical	
				Different	

(1) Complete references: Magelis Panel, see pages 3/5, 3/22 or 3/24/Magelis iDisplay/Magelis HMIB, see pages 5/8 and 7/5.

(2) Power provided by the Magelis Flex PC Box CPU; the type of power supply depends on the CPU model.

(3) Correspondence between different screen functions: touch screen + keypad/touch screen.

(4) Correspondence between different power supplies: 100...240 V ~/24 V ~.

(5) Made-to-order configuration (see page 3/27).

Magelis HMIBS S-Box PC - Optimized and Universal ranges

Selection guide page 4/2

■ Presentation

- Overview of the range
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 - Magelis HMIBS Universal..... page 4/4
- Remote monitoring system of Magelis HMIBS page 4/4
- Magelis iDisplay monitor for Magelis HMIBS page 4/5
- HMI software support for Magelis HMIBS page 4/5

■ Description

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■ Reference

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- Magelis HMIBS Universal page 4/6
- Separate components page 4/7

Industrial PCs
Magelis iPCs for automation
Magelis HMIBS S-Box PC
Optimized and Universal ranges

Type	Optimized range
Industrial environments	Standard



Fanless	★★★★★
Non-rotative storage drive	★★★★★
CPU	Processor Mini PCI Express® slot Storage Slots Drives RAM
Operating system	Windows® Embedded Standard 2009
Supply voltage	Voltage Current (excluding PCIe card)
Interface	Ethernet Serial ports USB Audio Video Interface Resolution Digital I/O Watchdog timer
Reset button	Yes
Buzzer	Yes
Mounting	DIN rail or desk/wall mounting
Overall dimensions (W x H x D)	254.8 x 58.7 x 149.2 mm/10.03 x 2.31 x 5.88 in.
Temperature	During operation During storage
Vibration resistance	During operation
Shock resistance	During operation
Standards and certifications	CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), EAC, CCC
Compatible screens	Complete range of Magelis iDisplay screens (refer to page 7/5)
HMI Software	☐ Vijeo Designer RT Demo (21-day trial version), Unlimited license to be ordered separately (VJDSNRTMPC) (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ.
References	HMIBSO0ND1001HMIBSOCND1E01
Pages	4/6

(1) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.

Universal range
Standard



★★★★★	–	
★★★★★	–	★★★★★
Intel ATOM N2600 (1.6 GHz), dual-core		
1 full-size		
CFast slot and internal SATA slot for HDD/SSD		
CFast card ≥ 16 GB	SSD ≥ 80 GB, 5-year Intel warranty and 2 million hours MTBF	–
4 GB DDR3 (4 max.)		
Windows 7 32 bits (WES 7 Premium)		–
12...24 V ~ (± 5%, 16 W)		
3.0...1.5 A		
3 Ethernet 10/100/1000 Mbps		
2 RS-232, 4 RS-232/422/485 with auto flow control		
5 USB 2.0		
High Definition Audio (HD) Line-in, Line out, Mic-in		
1 VGA + 1 HDMI		
Up to 1920 x 1200 at 85 Hz		
8 bits, to be configured by the provided iManager software (advanced users only).		
Timer with 255 levels/intervals, programmable, 1...255 s		
–		
Yes (not supported by Windows 7)		
DIN rail or desk/wall mounting		
264.5 x 68.4 x 133 mm/10.41 x 2.69 x 5.24 in.		
Conforming to EN/IEC 60068-2-2: 0... 50 °C/32...122 °F		
Conforming to IEC 60068-2-2/ 60068-2-14: –40...85 °C/-40...185 °F		
Conforming to IEC 60068-2-6: 1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz		
Conforming to IEC 60068-2-27 Ea: 50 g/11 ms at wall mount, half sine-wave		
CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), EAC, CCC		
Complete range of Magelis iDisplay screens (refer to page 7/5)		
☐ Vijeo Designer RT Demo (21-day trial version), Unlimited license to be ordered separately (VJDSNRTMPC) (1). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ.		
HMIBSUCND1W01	HMIBSUSND1W01	HMIBSU0ND1001
4/6		

Presentation

The Magelis S-Box PCs are simple industrial PCs available in Optimized and Universal ranges. These PCs are mainly used in repetitive machines and infrastructure applications that require a Microsoft Windows® operating system.

Magelis S-Box PCs offer the following benefits:

- All-in-one simple design with easy selection, ordering, and installation
- Wall-mounted with small footprint and compact enclosure
- 24/7 operation with quick and easy remote access to system monitoring
- Maintenance-free non-rotating parts
- UL60950-certified
- Tested, validated and supported in Schneider solutions

Overview of the range

Magelis HMIBS Optimized

The HMIBS Optimized range has a fanless Intel®ATOM™ N270 low-power CPU (1.6 GHz) and a non-rotating storage drive. This range, with 2 reference models, provides:

- Maximum 2 GB DDR2 RAM, mounted by default
- Connection ports: 2 USB 2.0, 2 RS-232, 1 Gigabit Ethernet, and 1 VGA port for video
- Expansion: 1 mini PCI Express® slot, half-size
- Power supply: 24 V $\pm$ (large-scale 9...36 V)

The operating systems and storage devices are:

- **HMIBSOCND1E01**
 - Operating system: WES2009 Windows Embedded, pre-installed
 - Default storage device: 8 GB Compact Flash card which is write-protected
 - Additional free internal SATA slot for HDD or SSD
- **HMIBSO0ND1001**
 - Operating system: No
 - Default storage device: No
 - Additional free internal SATA slot for HDD or SSD

Magelis HMIBS Universal

The HMIBS Universal range has a fanless Intel ATOM D2600 dual-core low-power CPU (1.6 GHz) and a non-rotating storage drive. This range, with 3 reference models, provides:

- Maximum 4 GB DDR3 RAM, mounted by default
- Connection ports: 5 USB 2.0, 2 RS-232, 4 RS-232/422/485, 3 Gigabit Ethernet, HD audio ports, 1 VGA and 1 HDMI port for video
- Expansion: 1 mini PCI Express slot, full-size
- Power supply: 24 V $\pm$ (large-scale 12...24 V)

The operating systems and storage devices are:

- **HMIBSUCND1W01**
 - Operating system: Windows 7 32-bit (WES 7 Premium full blown)
 - Default storage device: 16 GB CFast card
 - Additional free internal SATA slot for HDD or SSD
- **HMIBSUSND1W01**
 - Operating system: Windows 7 32-bit (WES 7 Premium full blown)
 - Default storage device: 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF)
 - Additional free CFast slot
- **HMIBSU0ND1001**
 - Operating system: No
 - Free CFast slot and an internal SATA slot for HDD or SSD

Remote monitoring system for Magelis HMIBS

The Magelis HMIBS can be monitored remotely by installing the Remote Monitoring application provided in any PC. Several Magelis S-Box PCs can be monitored for:

- Managing system recovery (backup and restore) and On/Off (e.g., overnight for energy saving)
- Monitoring system parameters such as network connection, system/CPU temperatures, fan speeds and system voltages
- Configuring alerts via a popup, message, sound, or buzzer with event log entry and system shutdown
- Displaying e-mail alerts and function logs



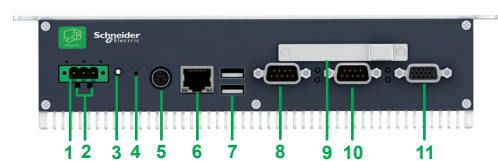
Optimized Magelis S-Box PC



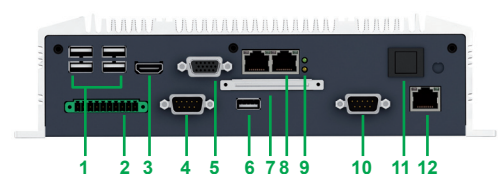
Universal Magelis S-Box PC



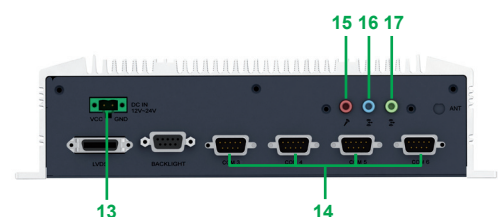
Connection of Magelis HMIBS Universal and Magelis iDisplay



Front view of Magelis HMIBS Optimized



Front view of Magelis HMIBS Universal



Rear view of Magelis HMIBS Universal

Presentation (continued)

Magelis iDisplay monitor for Magelis HMIBS

The Magelis S-Box PC can use Magelis iDisplay monitor as a display screen. The Magelis iDisplay models HMIDID and MPC are 15" or 19" screens with 16 M colors, touch screen with/without keypad, and IP 65 front panel protection. They are certified for UL508, UL Hazardous and Marine locations according to the model. For more information on Magelis iDisplay screens, see page 7/5.

Each Magelis S-Box PC comprises:

- USB ports for connecting to Magelis iDisplay touch screen and keypad (USB cable provided with Magelis iDisplay).
- VGA port for connecting to Magelis iDisplay screen for analog video signals.
- In addition, the Magelis Universal S-Box PC HMIBSU has an HDMI for connecting to the DVI port of Magelis iDisplay for digital video signals (via HDMI-DVI interface **HMIYADHDMIDVIS1**).

HMI software support for Magelis HMIBS (1)

Magelis S-Box PCs are supported by Schneider Electric HMI software for automation. Vijeo Designer RT is pre-installed in all Magelis S-Box PCs as a Demo version. This can be upgraded to unlimited version with additional **VJDSNRTMPC** license (2). The Vijeo XD RT also runs on all Magelis S-Box PCs and can be installed from any Vijeo XD DVD. This can be upgraded to the unlimited version with an additional **HMIRTCZLSPAZZ** license.

Description

Magelis HMIBS Optimized

Front view

- 1 Connector for input DC power supply
- 2 Status and power supply LEDs
- 3 Power supply button
- 4 Reset button
- 5 Keyboard and mouse connector
- 6 Ethernet port 10/100/1000 Mbps
- 7 2 USB 2.0 ports (USB1 and USB2)
- 8 COM2 RS-232 port
- 9 Compact Flash memory card slot
- 10 COM1 RS-232 port
- 11 VGA port

Magelis HMIBS Universal

Front view

- 1 4 USB 2.0 ports (USB1, USB2, USB3 and USB4)
- 2 8 Digital I/O
- 3 HDMI port
- 4 COM1 RS-232 port
- 5 VGA port
- 6 USB 2.0 port
- 7 CFast memory card slot
- 8 2 Ethernet ports
- 9 Status (HDD and CFast disk) and power supply LEDs
- 10 COM2 RS-232 port
- 11 Power supply switch
- 12 Ethernet port

Rear view

- 13 Connector for input DC power supply
- 14 4 RS-232/422/485 with auto flow control (by BIOS setting)
- 15 MIC
- 16 LINE-IN
- 17 LINE-OUT

(1) As Magelis S-Box PC does not have SRAM, it is recommended to save data on a storage drive (USB stick or SSD) to avoid data loss.

(2) Requires Vijeo Designer V6.2 SP2 or higher version to build and download an HMI application.



HMIBSOCND1E01

Magelis HMIBS Optimized**Intel ATOM N270 single-core processor (1.6 GHz)/DDR2 RAM/DC power supply**

PCI expansion slot	Operating system	Software	Storage drives and slots	DDR2 RAM	Reference	Weight kg/lb
1 mini PCI Express, half size	Windows Embedded Standard 2009 (1)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	Compact Flash ≥ 8 GB, 1 internal free slot for SSD/HDD	2 GB	HMIBSOCND1E01	4.000/ 8.818
1 mini PCI Express, half size	—	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	1 internal free slot for SSD/HDD	2 GB	HMIBSO0ND1001	



HMIBSUCND1W01

Magelis HMIBS Universal**Intel ATOM N2600 dual-core processor (1.6 GHz)/DDR3 RAM/DC power supply**

PCI expansion slot	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
1 mini PCI Express, full size	Windows 7 32-bit (WES 7 Premium full blown)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	CFast ≥ 16 GB, 1 internal free slot for SSD/HDD	4 GB	HMIBSUCND1W01	6.000/ 13.22
1 mini PCI Express, full size	Windows 7 32-bit (WES 7 Premium full blown)	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	SSD Flash disk ≥ 80 GB (5-year manufacturer warranty and 2 million hours MTBF), 1 free slot for CFast	4 GB	HMIBSUSND1W01	7.000/ 15.43
1 mini PCI Express, full size	—	Vijeo Designer RT Demo pre-installed (2), Vijeo XD RT Demo (3)	1 internal free slot for SSD/HDD, 1 free slot for CFast	4 GB	HMIBSU0ND1001	7.000/ 15.43

(1) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Microsoft® Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer RT Demo (21-day trial version)

(2) Requires Vijeo Designer V6.2 SP2 or higher version to build and download an HMI application.

(3) Vijeo XD RT to be installed from Vijeo XD Build time DVD and activated by unlimited license HMIRTM CZLSPAZZ.

Industrial PCs

Magelis iPCs for automation
Magelis HMIBS S-Box PC
Separate components

Separate components					
Description	Details	Compatible with Magelis HMIBS S-Box PC ranges		Reference	Weight kg/lb
		Optimized	Universal		
Storage disks, peripheral equipment					
SSD with mounting screws	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models		HMIYSSDS080S1	—
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models		HMIYSSDS160S1	—
Compact Flash card	8 GB MLC, blank	All models	—	HMIYCFS08S	—
CFast card	16 GB MLC, blank	—	All models	HMIYCFA16S	—
HDMI to DVI interface	HDMI to DVI interface	—	All models	HMIYADHDMIDVIS1	—
DIN rail adapter	DIN rail adapter for S-Box PC	All models	—	HMIYADBSODIN11	—
		—	All models	HMIYADBSUDIN21	—
Software					
Vijeo Designer RT license for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license.	All models		VJDSNRTMPC	—
Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values.	All models (requires storage capacity ≥ 4 GB)		VJDSNTRCKV60M	—
Vijeo XD RT license for 1 workstation	Converts the 21-day trial version of Vijeo XD Demo to an unlimited license	All models		HMIRTCZLSPAZZ	—

Magelis HMIB Box PC - Universal and Performance ranges

Selection guide page 5/2

■ **Presentation**

□ Overview of the range

 - Magelis HMIB Universal page 5/4

 - Magelis HMIB Performance page 5/4

 - Made-to-order Magelis HMIB page 5/5

□ USB accessories for HMI terminals page 5/5

■ **Description**

□ Magelis HMIB Universal, 1 PCI slot page 5/6

□ Magelis HMIB Universal and Performance, 2 PCI slots page 5/6

□ Magelis HMIB Performance, 5 PCI slots page 5/7

■ **References**

□ Magelis HMIB Universal, 1 or 2 PCI slots page 5/8

□ Magelis HMIB Performance, 2 or 5 PCI slots page 5/8

□ Separate components page 5/9

■ **Substitution**

□ Configured Magelis HMIB Box PC page 5/10

□ Equivalent product table page 5/11

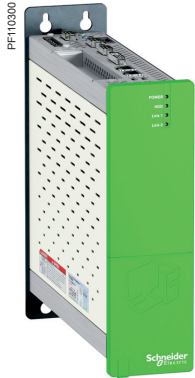
Industrial PCs
Magelis iPCs for automation
Magelis HMIB Box PC
Universal and Performance ranges

Type	Universal range - 1 PCI slot			
Industrial environments	Maintenance-free	Standard		
				
Fanless	★★★★★	★★★★★	★★★★★	
Non-rotative storage drive	★★★★★	★★★★★	—	
CPU (1)	Processor	Intel® ATOM™ N270 (1.6 GHz)		
	PCI slot	1 PCI		
	Storage	Compact Flash card ≥ 4 GB (SLC technology)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB
	RAM (2)	2 GB	2 GB	2 GB
	Integrated DVD-RW drive	—		
	Slide-in rack for peripheral device	1 slide-in compact rack for storage disk	1 slide-in compact rack for storage disk (Flash disk or hard disk included)	
	Integrated ports	2 Ethernet 10/100/1000 Mbps 1 USB 2.0 (1 A) on the front panel + 4 USB 2.0 (0.5 and 1 A) at the top 2 RS-232C 1 DVI (VGA RGB adapter, optional) 1 RS-232C/422/485 HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)		
	Optional ports	Windows® Embedded Standard 2009		
	Optional RAID PCI card	Windows XP Professional SP3		
	Operating system			
Supply voltage	Voltage	24 V ~ (± 25 %) (3)		
	Current (excluding PCI card)	Nominal current 6 A. Typical inrush current 7 A, 50 A < 300 μs		
Mounting	Vertical, at the back of the enclosure ("book" format) or flat (requiring fan kit HMIYBFKT11)			
Overall dimensions (W x H x D in mm)	82 x 270 x 251 mm/3.23 x 10.63 x 9.88 .in			
Temperature	during operation	Conforming to IEC 61132-2, UL 508: 0...50 °C/32...122 °F (mounted vertically) or 0...45 °C/32...113 °F (mounted flat)		
Vibration resistance during operation	Continuous	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz	
	Non-continuous	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz	
	Merchant navy IACS E10	1 mm/0.04 in. amplitude from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	—	
Shock resistance	During operation	15 g/11 ms conforming to IEC 60068-2-27 test Ea		
Standards and certifications	CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), ATEX II 3 Dust zone 22, C-Tick, GOST			
Marine certification	Germanischer Lloyd (Bridge Class)	With additional power supply filter HMIYLFIMAR11	—	
Compatible screens	Complete range of Magelis iDisplay screens (refer page 7/5)			
HMI Software	□ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). □ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.			
References	Vijeo Designer RT Demo	—	HMIBUFND1PF1	
	Vijeo Citect Full 500 I/O	—	—	
Pages	Vijeo Designer RT Demo	HMIBUCND1E01	HMIBUFND1P01	
		5/8	HMIBUHND1P01	
Made-to-order configuration	See configured Magelis Box PC on page 5/10			

(1) Memory capacity not user-expandable; increased capacity available in made-to-order configuration (see page 5/10).
(2) For other available options (interface for backup battery, etc.) in made-to-order configuration, see pages 5/9 and 5/10.

Universal range - 2 PCI slots		Performance range - 2 PCI slots		Performance range - 5 PCI slots	
Maintenance-free	Standard	Harsh	Standard	Harsh	Standard
					
★★★★★	★★★★★	—	—	—	—
★★★★★	—	★★★★★	—	★★★★★	—
Intel ATOM N270 (1.6 GHz) 2 (1 PCI + 1 PCI Express®)		Intel Core™ 2 Duo P8400 (2.26 GHz) + Intel GM45 Chipset			
SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB	SSD flash disk ≥ 60 GB with 2 million hours MTBF	Hard disk Enterprise 24/7 ≥ 500 GB
2 GB	2 GB	4 GB	4 GB	4 GB	4 GB
1		1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (included) or storage disk via adapter (optional)			
2 Ethernet 10/100/1000 Mbps		1 slide-in compact rack for storage disk (Flash disk or hard disk included) 1 slide-in rack for DVD-RW drive (supplied) 1 slide-in rack for storage disk via adapter (optional)			
1 USB 2.0 (1 A) on the front panel + 4x USB 2.0 (0.5 and 1 A) at the top					
2 RS-232C					
1 DVI (VGA RGB adapter, optional)					
1 RS-232C/422/485, 1x DVI					
HMIYRAIDPCI11 RAID PCI card with 2 redundant hard disks (see page 3/27)					
Windows XP Professional SP3		Windows 7 Ultimate 64-bit			
24 V ~ (± 25 %) (3)					
Nominal current 6 A. Typical inrush current 7 A, 50 A < 300 µs					
Vertical, at the back of the enclosure ("book" format) or flat (requiring fan kit HMIYBFKT21, for Box PC HMIBU●ND2P●1)					
121 x 270 x 251 mm/4.76 x 10.63 x 9.88 .in		136 x 270 x 251 mm/5.35 x 10.63 x 9.88 .in		217 x 270 x 251 mm/8.54 x 10.63 x 9.88 .in	
Conforming to IEC 61132-2, UL 508: 0...50 °C/32...122 °F (mounted vertically) or 0...45 °C/32...113 °F (mounted flat)					
1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz	1.75 mm/0.07 in. amplitude from 2...9 Hz, 0.5 g from 9...200 Hz (4)	0.125 g from 5...100 Hz
3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz	3.5 mm/0.14 in. amplitude from 2...9 Hz, 1 g from 9...200 Hz (4)	0.250 g from 5...100 Hz
1 mm/0.04 in. from 5...13.2 Hz, 0.7 g from 13.2...100 Hz, 90 minutes endurance	—				
15 g/11 ms conforming to IEC 60068-2-27 test Ea					
CE, cULus (UL 508, CSA 22.2 n°142), cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 n°213), ATEX II 3 Dust zone 22, C-Tick, GOST					
With additional power supply filter HMIYLFIMAR11	—				
Complete range of Magelis iDisplay screens (refer page 7/5)					
☐ Vijeo Designer RT Demo 21-day trial version. Unlimited license, to be ordered separately (VJDSNRTMPC). ☐ Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.					
HMIBUFND2PF1	—	HMIBPFDD27F1	—	HMIBPFDD57F1	—
HMIBUFND2P01	HMIBUHND2P01	HMIBPFDD2701	HMIBPHDD2701	HMIBPFDD5701	HMIBPHDD5701
5/8					
See configured Magelis Box PC on page 5/10					

(3) For an ~ supply voltage, an external Phaseo power supply can be used (see page 5/9).
(4) Conforming to IEC 60068-2-6 Fc.



Universal Box PC
1 PCI



Universal Box PC/Performance Box PC
1 PCI + 1 PCI Express



Performance Box PC
2 PCI + 3 PCI Express

Presentation

The Magelis HMIB Box PC offer includes products that are rugged and certified for automation applications.

With its Universal (1 or 2 PCI slots) and Performance (2 or 5 PCI slots) ranges, this Magelis Box PC is suitable for any type of use not requiring an integrated screen:

- In a maintenance-free environment: Fanless Magelis HMIB (unaffected by dust, no filters to clean, etc.) and without any rotating parts such as a hard disk. Data storage on Compact Flash card or on Flash disk offers good resistance to vibration and long life.
- In a harsh environment: Magelis HMIB without hard disk
- In a standard environment: Magelis HMIB with hard disk

In addition to the referenced offer, the flexibility offered by the modular design allows made-to-order Magelis Box PC configurations (see page 5/10). This offer is also compatible with Magelis iDisplay screens.

Overview of the range

Magelis HMIB Universal (1) (2)

The Magelis HMIB Universal range is equipped with the fanless Intel®ATOM™ N270 processor (1.6 GHz) and DDR2 RAM (3).

It is specifically designed for the following environments:

- Maintenance-free environment (fanless, with solid-state storage disk):
 - **HMIBUCND1E01:**
 - 1 PCI slot/Compact Flash card/Windows® Embedded Standard 2009, etc.
 - **HMIBUFND1P01** and **HMIBUFND1PF1:**
 - 1 PCI slot, SSD flash disk, Windows XP Professional SP3, etc.
 - **HMIBUFND2P01** and **HMIBUFND2PF1:**
 - 1 PCI + 1 PCI Express® slot/Flash disk SSD/Windows XP Professional SP3, etc.
- Standard industrial environment (with hard disk):
 - **HMIBUHND1P01:**
 - 1 PCI slot/Hard disk/Windows XP Professional SP3, etc.
 - **HMIBUHND2P01:**
 - 1 PCI + 1 PCI Express slot/Hard disk/Windows XP Professional SP3, etc.

Magelis HMIB Performance (1) (2)

The Magelis HMIB Performance range is equipped with the Intel Core™ 2 Duo P8400 processor (2.26 GHz) + Intel GM45 Chipset and DDR3 RAM (3).

It is specifically for the following environments:

- Harsh industrial environment (with solid-state storage disk):
 - **HMIBPFDD2701** and **HMIBPFDD27F1:**
 - 1 PCI + 1 PCI Express/SSD flash disk/Windows 7 Ultimate 64-bit, etc.
 - **HMIBPFDD5701** and **HMIBPFDD57F1:**
 - 2 PCI + 3 PCI Express/SSD flash disk/Windows 7 Ultimate 64-bit, etc.
- Standard industrial environment (with hard disk):
 - **HMIBPHDD2701:**
 - 1 PCI + 1 PCI Express/Hard disk/Windows 7 Ultimate 64-bit, etc.
 - **HMIBPHDD5701:**
 - 2 PCI + 3 PCI Express/Hard disk/Windows 7 Ultimate 64-bit, etc.

(1) Types of PCI slot: half-format PCI 2.2 and half-format PCI Express (1x for Magelis Box PC with 1 or 5 slots, 4x for Magelis Box PC with 2 slots).

(2) For description, see pages 5/6 and 5/7.

(3) Not user-expandable; increased capacity available in made-to-order configurations (see page 5/10).

Presentation (continued)

Overview of the range (continued)

Made-to-order Magelis HMIB (1)

On Universal and Performance Magelis HMIB bases, you can customize the CPU by selecting:

- the Compact Flash card and the RAM capacity
- the number of PCI and PCI Express slots
- the operating system and dedicated HMI software
- additional assembled options: PCI RAID card with 2 redundant hard disks (2), battery-backed power supply interface module, etc.

For more information on the HMIPCCB1 offer, see page 5/10.

USB accessories for HMI terminals

Magelis USB accessories are designed to expand the range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals (3).

The Magelis USB accessories supported by Magelis HMIB include:

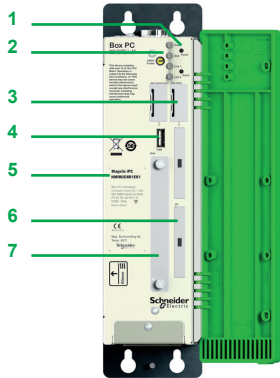
- Harmony XB5S biometric USB switch
- Magelis HMIZ illuminated USB switch

For more information on HMI USB accessories, please refer to our website www.schneider-electric.com/USB accessories for Magelis terminals.

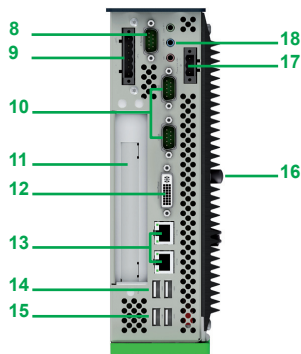
(1) Types of PCI slots: half-format PCI 2.2 and half-format PCI Express (1x for Magelis Box PC with 1 or 5 slots, 4x for Magelis Box PC with 2 slots).

(2) Operating temperature details available on our website [www.schneider-electric.com/HMI/Industrial PC and Display](http://www.schneider-electric.com/HMI/Industrial%20PC%20and%20Display).

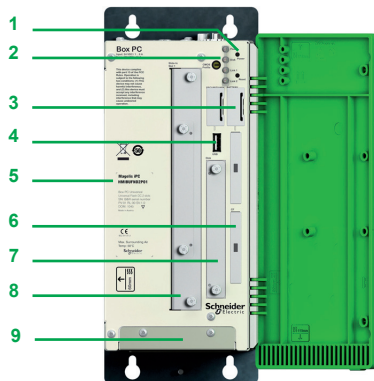
(3) Requires Vijeo Designer software running on Magelis Box PC, not compliant with WES operating systems.



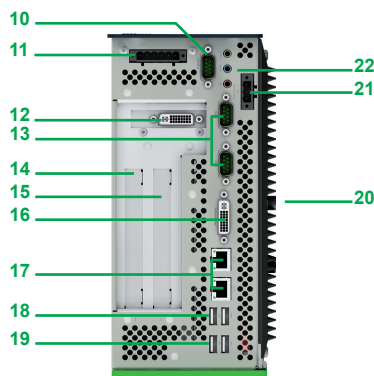
Front panel of Magelis Box PC, door open
1 PCI slot



Top panel of Magelis Box PC
1 PCI slot



Front panel of Magelis Box PC, door open
2 PCI slots



Top panel of Magelis Box PC
2 PCI slots

Description

Magelis HMIB Universal, 1 PCI slot

Front panel, door open

- 1 2 pushbuttons: 1 for power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Slot for Compact Flash card:
 - With Compact Flash (SLC technology) ≥ 4 GB (Box PC **HMIBUCND1E01**)
 - Free slot (Box PC **HMIBUFND1P●1**, Box PC **HMIBUHND1P01**)
- 7 Slide-in compact rack:
 - Free slot (Box PC **HMIBUCND1E01**)
 - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Box PC **HMIBUFND1P●1**)
 - With Enterprise 24/7 hard disk ≥ 500 GB (Box PC **HMIBUHND1P01**)

Top panel

- 8 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (1)
- 9 Free slot for battery-backed power supply interface module (2)
- 10 2 RS-232C ports
- 11 Half-format PCI 2.2 slot
- 12 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 13 2 Ethernet 10/100/1000 Mbps ports
- 14 2 USB 2.0 ports (0.5 A max.)
- 15 2 USB 2.0 ports (1 A max.)
- 16 Heat sink (3)
- 17 Connector for the CPU 24 V $\sim$ /6 A power supply (4)
- 18 Micro input, line input/line output

Magelis HMIB Universal and Performance, 2 PCI slots

Front panel, door open

- 1 2 pushbuttons: 1 for the power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Free slot for Compact Flash card
- 7 Slide-in compact rack:
 - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Box PC **HMIB●F●D2●●1**)
 - With Enterprise 24/7 hard disk ≥ 500 GB (Box PC **HMIB●H●D2●01**)
- 8 Slide-in rack with the DVD-RW drive included (5). This can be used for an additional storage disk with adapter (**HMIYADSLIDEIN11**) (1)
- 9 Access to the fan filters (7) (Box PC **HMIBP●DD●7●1**)

Top panel

- 10 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (1)
- 11 Free slot for battery-backed power supply interface module (2)
- 12 Free slot for additional DVI interface (**HMIYINDVIRGB11**) (1)
- 13 2 RS-232C ports
- 14 Half-format PCI Express 4x slot
- 15 Half-format PCI 2.2 slot
- 16 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 17 2 Ethernet 10/100/1000 Mbps ports
- 18 2 USB 2.0 ports (0.5 A max.)
- 19 2 USB 2.0 ports (1 A max.)
- 20 Heat sink (3)
- 21 Connector for the CPU 24 V $\sim$ /6 A power supply (4)
- 22 Micro input, line input/line output

(1) To be ordered separately (see page 5/9).

(2) To be ordered separately in made-to-order configurations (see page 5/10).

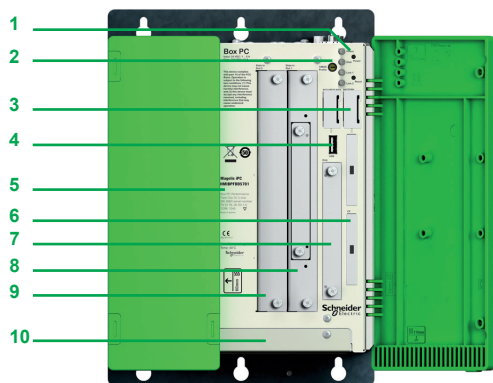
(3) For installation, please refer to the product data sheets of respective product references

(4) Consumption excluding additional PCI card. For an $\sim$ supply voltage, an external Phaseo power supply can be used (see page 5/9).

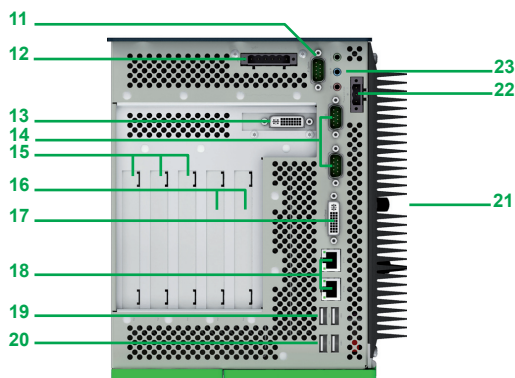
(5) Operating temperature details available on our website

www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(6) Fans can be replaced by the user using the Box PC fan kit (to be ordered separately, see page 5/9).



Front panel of Magelis Box PC, door open
5 PCI slots



Top panel of Magelis Box PC
5 PCI slots

Description (continued)

Magelis HMIB Performance, 5 PCI slots

Front panel, door open

- 1 2 pushbuttons: 1 for power supply and 1 for resetting
- 2 4 status and power supply LEDs, also visible with the front panel door closed
- 3 Battery
- 4 1 USB 2.0 port (1 A max.)
- 5 Identification (reference, serial number, etc.)
- 6 Free slot for Compact Flash card
- 7 Slide-in compact rack:
 - With SSD flash disk ≥ 60 GB with 2 million hours MTBF (Box PC **HMIBPFDD57●1**)
 - With Enterprise 24/7 hard disk ≥ 500 GB (Box PC **HMIBPHDD5701**)
- 8 Slide-in rack with the DVD-RW drive included (1)
- 9 Slide-in rack for additional storage disk with adapter (**HMIYADSLIDEIN11**) (2)
- 10 Access to the fan filters (3)

Top panel

- 11 Free slot for additional RS-232C/422/485 serial link interface (**HMIYBINSL11**) (2)
- 12 Free slot for battery-backed power supply interface module (4)
- 13 Free slot for additional DVI interface (**HMIYINDVIRGB11**) (2)
- 14 2 RS-232C ports
- 15 3 half-format PCI Express 1x slots
- 16 2 half-format PCI 2.2x slots
- 17 DVI port - RGB connection with adapter (**HMIYADDVIRGB11**) (1)
- 18 2 Ethernet 10/100/1000 Mbps ports
- 19 2 USB 2.0 ports (0.5 A max.)
- 20 2 USB 2.0 ports (1 A max.)
- 21 Heat sink (5)
- 22 Connector for the CPU 24 V $\sim$ /6 A power supply (6)
- 23 Micro input, line input/line output

(1) Operating temperature details available on our website
www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(2) To be ordered separately (see page 5/9).

(3) Fans can be replaced by the user using the Box PC fan kit (to be ordered separately, see page 5/9).

(4) To be ordered separately in made-to-order configurations (see page 5/10).

(5) Refer to the installation precautions available on our website
www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(6) Consumption excluding additional PCI card. For an $\sim$ supply voltage, an external Phaseo power supply can be used (see page 5/9).



HMIBU●ND1●●1

Magelis HMIB Universal, 1 or 2 PCI slots**Intel ATOM N270 processor (1.6 GHz)/DDR2 RAM/24 V --- supply voltage (1)**

PCI slot	Operating system	Software	Storage disk	DDR2 RAM (4)	Reference	Weight kg/lb
For maintenance-free environment						
1 PCI	Windows Embedded Standard 2009 (2)	Vijeo Designer RT Demo (3)	Compact Flash ≥ 4 GB (SLC technology)	2 GB	HMIBUCND1E01	4.000/ 8.818
	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND1P01	4.000/ 8.818
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND1PF1	4.000/ 8.818
1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND2P01	5.000/ 11.023
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	2 GB	HMIBUFND2PF1	5.000/ 11.023

HMIBU●ND2P●1
HMIBP●DD27●●1**For standard industrial environment**

1 PCI	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	2 GB	HMIBUHND1P01	4.000/ 8.818
1 PCI + 1 PCI Express	Windows XP Professional SP3	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	2 GB	HMIBUHND2P01	5.000/ 11.023

Magelis HMIB Performance, 2 or 5 PCI slots**Intel Core™ 2 Duo P8400 processor (2.26 GHz)/DDR3 RAM/24 V --- supply voltage (1)**

PCI slot	Operating system	Software	Storage disk	DDR3 RAM (4)	Reference	Weight kg/lb
For standard industrial environment						
1 PCI + 1 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	4 GB	HMIBPHDD2701	6.000/ 13.227
	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	Hard disk Enterprise 24/7 ≥ 500 GB	4 GB	HMIBPHDD5701	7.000 / 15.432
2 PCI + 3 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD2701	6.000/ 13.227
		Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD27F1	6.000/ 13.227
	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD5701	7.000/ 15.432
2 PCI + 3 PCI Express	Windows 7 Ultimate 64-bit	Vijeo Designer RT Demo (3)	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD57F1	7.000/ 15.432
		Vijeo Designer RT Demo (3) Vijeo Citect Full 500 I/O	SSD flash disk ≥ 60 GB with 2 million hours MTBF	4 GB	HMIBPFDD57F1	7.000/ 15.432



HMIBP●DD57●●1

(1) For an ~ supply voltage, an external Phaseo power supply can be used (see page 5/9).

(2) Windows Embedded Standard 2009 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Acrobat Reader, Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser
- Vijeo Citect Web Client
- Vijeo Designer RT Demo (3)

(3) Vijeo Designer RT (Run Time) Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (see page 5/9). Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMCLSPAZZ.

(4) Memory capacity not user-expandable; increased capacity available in made-to-order configurations (see page 5/10).

Industrial PCs

Magelis iPCs for automation

Magelis HMIB Box PC

Separate components

Separate components					
Description	Details	Compatible with Magelis HMIB Box PC ranges:		Reference	Weight kg/lb
		Universal	Performance		
Storage disks, peripheral equipment, kits					
Hard disk	500 GB, blank (Enterprise 24/7)	All models		HMIYHDD050011	—
SSD flash disk with 2 million hours MTBF	60 GB, blank	All models		HMIYSDD006011	—
	128 GB, blank	All models		HMIYSDD012011	—
Compact Flash card (SLC technology)	2 GB, blank	All models		HMIYCFS0211	—
	4 GB, blank	All models		HMIYCFS0411	—
	8 GB, blank	All models		HMIYCFS0811	—
DVD-RW drive for slide-in rack (1)	CD-RW and DVD-RW reader/writer	Box PC, 2 PCI and 5 PCI slots		HMIYDRDVDRW11	—
Slide-in adapter for storage disk (7)	Used to insert a hard disk or an SSD flash disk in a slide-in rack	Box PC, 2 PCI and 5 PCI slots		HMIYADSLIDEIN11	—
Additional DVI interface	Provides a second DVI interface	Box PC, 2 PCI and 5 PCI slots		HMIYINDVIRGB11	—
DVI/VGA RGB adapter	For connecting an RGB screen to the integrated DVI port	All models		HMIYADDVIRGB11	—
RAID PCI card with 2 redundant hard disks (1)	PCI card equipped with two redundant hard disks Enterprise 24/7 ≥ 500 GB	All models		HMIYRAIDPCI11	—
Hard disk for RAID PCI card	Replacement hard disk for RAID PCI card HMIYRAIDPCI11	HMIB + RAID PCI card	HMIYRAIDPCI11	HMIYRAIDD050011	—
Additional serial link interface	RS-232C/422/485 serial link	All models		HMIYBINSL11	—
Backup power supply kit	Provides an uninterruptible power supply. Includes: ■ 1 backup battery ■ 1 x 3 m cordset	Magelis Box PC configured with battery-backed power supply interface module (2)		HMIYUPSKT11	—
Power supply filter for Marine certification	Necessary for compliance with Marine certification.	Box PC: HMIBUCND1E01 and HMIBUFND●P●1	—	HMIYLFIMAR11	—
Maintenance kit for Box PC	Includes: ■ 1 x 3-way removable connector for 24 V ~ power supply ■ 15 replacement filters for fan, including: □ 5 for Magelis Box PC - 1 PCI □ 5 for Magelis Box PC - 2 PCI □ 5 for Magelis Box PC - 5 PCI	All models		HMIYBMKT11	—
Fan kit for HMIB	Enables: ■ Replacement of fans by the user ■ Flat mounting of fanless Magelis Box PC (3)	Box PC, 1 PCI		HMIYBFKT11	—
		Box PC, 2 PCI		HMIYBFKT21	—
		Box PC, 5 PCI		HMIYBFKT51	—
Software					
Vijeo Designer RT license for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license.	All models		VJDSNRTMPC	—
Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)		VJDSNTRCKV60M	—
External Phaseo power supply					
Phaseo regulated switch mode power supply ABL 8 Rail mounting	Input voltage: 100...120 V/200...500 V ~ (4) Output voltage: 24 V ~ Power: 120 W	All models		ABL8RPS24050 (5) (6)	0.700/1.543
Phaseo regulated switch mode power supply ABL 4 Rail mounting	Input voltage: 100...230 V ~ (4) Output voltage: 24 V ~ Power: 120 W	All models		ABL4RSM24050 (5) (6)	0.500/1.102

(1) Operating temperature details available on our website www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(2) For configured Magelis Box PC, see page 5/10.

(3) Operating temperature for flat mounting: 0...45 °C (see pages 5/2 and 5/3).

(4) Single-phase connection. Phase-to-phase connection possible on certain American line supplies. For more information, please contact our Customer Care Center.

(5) If adding a PCI card, you need to select a Phaseo power supply with a power rating suitable for the extra consumption. Please refer to the "Phaseo power supply and transformer" catalog on our website www.schneider-electric.com/HMI/IndustrialPCandDisplay.

(6) To order this reference, please contact our Customer Care Center.

(7) The user has to check that the third-party drives are compliant.

Industrial PCs

Magelis iPCs for automation

Configured Magelis HMIB Box PC

Configured Magelis HMIB Box PC

With the "configured PC" service, Schneider Electric offers a vast number of configuration combinations for Magelis PCs.

This service, available exclusively from our Customer Care Center, allows users to configure a certified product suitable for specific automation applications and environments, based on Universal and Performance Magelis Box PCs.

Our Customer Care Center draws up:

- the complete parts list for the configured Magelis HMIB
- the selling price
- the complete reference (root + code which varies according to the configuration)
- the purchase order

Ordering procedure for a configured Magelis HMIB

- 1 Please contact our Customer Care Center.
- 2 State the reference root **HMIPCCB1** corresponding to a request for a configured Magelis Box PC. It will be completed with the variable part of the reference, once configuration is complete.
- 3 Configure your Magelis Box PC (see table below).
- 4 Confirm your order.

References

Description	Reference	Weight kg/lb
Configured Magelis HMIB (1)	Reference root to be stated to our Customer Care Center. The configuration should be made up from the components below. HMIPCCB1 (2)	—

Description	Available on Magelis Box PC base		Reference	Weight kg/lb
	Universal	Performance		
	Processor Intel ATOM N270 (1.6 GHz)	Intel Core™ 2 Duo P8400 processor (2.26 GHz)		
	DDR2 RAM	DDR3 RAM		
	Supply voltage 24 V --- supply voltage	24 V --- supply voltage		
RAM	3 GB max. (DDR2)	8 GB max. (DDR3)	(2)	—
Peripheral storage devices	Compact Flash card 8 GB max. (SLC technology) Up to 2 SSD flash disks ≥ 128 GB with 2 million hours MTBF Up to 2 Enterprise 24/7 hard disks ≥ 500 GB			
Other peripheral device	DVD-RW drive			
PCI slot configuration	1 PCI or 1 PCI Express 1 PCI + 1 PCI Express or 2 PCI 2 PCI + 3 PCI Express or 4 PCI + 1 PCI Express			
Operating systems	Windows Embedded Standard 2009 Windows Embedded Standard 7 32-bit Windows XP PRO SP3 Windows 7 Ultimate 32-bit Windows 7 Ultimate 64-bit			
Software	Vijeo Designer RT Vijeo Citect			
Assembled options	RAID PCI card with 2 redundant hard disks Interface module for backup power supply required for the HMIYUPSKT11 backup power supply kit (see page 5/9) Additional RS-232C/422/485 serial link interface Additional DVI interface (needs a configuration with 2 or 5 PCI/PCI Express slots)			

(1) Please contact our Customer Care Center.

(2) The reference for configured Magelis Box PCs is made up of a root (HMIPCCB1) followed by a variable part generated during configuration.

Industrial PCs

Magelis iPCs for automation

Equivalent product table

Old industrial PCs		Replaced by Magelis HMIB Box PCs	
Description	Reference	Description	References
Magelis Smart Box		Magelis HMIB (1 PCI slot)	
Magelis Smart Box 100...240 V ~	MPCSN01NAJ00T	Universal Magelis HMIB	HMIBUCND1E01 + Phaseo power supply (1)
Magelis Smart Box 24 V ---	MPCSN01NDJ00T	Universal Magelis HMIB	HMIBUCND1E01
Magelis Compact PC Box (1 PCI slot)		Magelis HMIB (1 PCI slot)	
Magelis Compact PC Box 100...240 V ~	MPCKN02NAX00N	Universal Magelis HMIB	HMIBUHND1P01 + Phaseo power supply (1)
Magelis Flex PC Box F (2 PCI slots)		Magelis HMIB (2 PCI slots)	
Magelis Flex PC Box (Celeron M) 100...240 V ~	MPCFN02NAX00N	Universal Magelis HMIB	HMIBUHND2P01 + Phaseo power supply (1)
Magelis Flex PC Box (Celeron M) 24 V ---	MPCFN02NDX00N	Universal Magelis HMIB	HMIBUHND2P01
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCFN05NAX00N	Performance Magelis HMIB	HMIBPHDD2701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 24 V ---	MPCFN05NDX00N	Performance Magelis HMIB	HMIBPHDD2701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCFN05MAX00N	Performance Magelis HMIB	HMIBPFDD2701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ Vijeo Citect Full 500 I/O	MPCFN05MAX00V	Performance Magelis HMIB Vijeo Citect Full 500 I/O	HMIBPFDD27F1 + Phaseo power supply (1)
Magelis Flex PC Box H (4 PCI slots)		Magelis HMIB (5 PCI slots)	
Magelis Flex PC Box (Celeron M) 100...240 V ~	MPCHN02NAX00N	Performance Magelis HMIB	HMIBPHDD5701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCHN05NAX00N	Performance Magelis HMIB	HMIBPHDD5701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ with backup battery	MPCHN05NBX00N	Configured Magelis HMIB (2)	HMIPCCB1B5CB26K10N + HMIYUPSKT11 kit + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 24 V ---	MPCHN05NDX00N	Performance Magelis HMIB	HMIBPHDD5701
Magelis Flex PC Box (Core Duo) 100...240 V ~	MPCHN05MAX00N	Performance Magelis HMIB	HMIBPFDD5701 + Phaseo power supply (1)
Magelis Flex PC Box (Core Duo) 100...240 V ~ Vijeo Citect Full 500 I/O	MPCHN05MAX00V	Performance Magelis HMIB Vijeo Citect Full 500 I/O	HMIBPFDD57F1 + Phaseo power supply (1)

(1) ABL8RPS24050 or ABL4RSM24050 Phaseo power supply (see page 5/9).

(2) See page 5/10.

Magelis HMIR Rack PC - Optimized, Universal and Performance ranges

Selection guide page 6/2

Presentation

Overview of the range

- Magelis HMIR Optimized 2U page 6/4
- Magelis HMIR Universal 2U page 6/4
- Magelis HMIR Performance 4U page 6/5

Storage drive trays and redundant Raid HDD page 6/5

Remote system monitoring of Magelis HMIR page 6/5

Magelis iDisplay monitor for Magelis HMIR..... page 6/6

Software bundles for Magelis HMIR..... page 6/6

Actassi 19" rack enclosure for Magelis HMIR mounting page 6/6

Description

Magelis HMIR Optimized 2U..... page 6/7

Magelis HMIR Universal 2U..... page 6/8

Magelis HMIR Performance 4U page 6/9

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Magelis HMIR Universal 2U..... page 6/10

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Separate components page 6/11

Industrial PCs
Magelis™ iPCs for automation
Magelis HMIR Rack PC
Optimized, Universal and Performance ranges

Type (1)	Optimized PC 2U range
Industrial environments	Control rooms and labs



CPU	Processor 3 rd gen		Intel®Core G540 (2.5 GHz), dual core		Intel iCore G850 (2.9 GHz), dual core
	Motherboard Micro ATX/ATX		Micro ATX		
	PCI Express® slot/PCI		2 PCI Express (x8) + 1 PCI		
	Storage	Slots	1 internal slot (SATA3) + 2 hot swap trays (SATA2)		
		Drives	1 HDD ≥ 500 GB consumer, in internal slot with OS	–	1 HDD ≥ 500 GB enterprise 24/7, in internal slot
		2 GB DDR3 in 1 slot			
Operating system		Windows® 7 32-bit (WES 7 Premium full blown)	–	Windows 7 64-bit (WES 7 Premium full blown)	
Supply voltage		240 V ~ (300 W single power supply)			
Cooling method		3 fans, user exchangeable with fan speed control to reduce noise			
Interface	Ethernet	2 Ethernet 10/100/1000 Mbps			
	Serial ports	2 RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)			
	USB ports	2 USB 2.0, 4 USB 3.0			
	Audio	2 (Mic, line-out)			
	Video	Interface	1 VGA + 1 DVI		
		Resolution	VGA: Up to 2048 x 1536 at 60 Hz, DVI: Up to 1920 x 1200 at 60 Hz		
	DVD-RW drive	1 DVD-RW drive			
	Watchdog timer	System reset output, programmable 1...255 s/min			
	Reset button, buzzer, Case-open switch	Yes			
	Mounting		2U in 19" HMIR enclosure (1)		
Overall dimensions (W x H x D)		482 x 88.4 x 481.4 mm/18.98 x 3.48 x 18.95 in.			
Degree of protection		IP 40			
Temperature	During operation	Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F			
	During storage	Conforming to IEC 60068-2-2: –20...60 °C/–4...140 °F			
Humidity	During operation	Conforming to IEC 60068-2-78: 10...85% at 40 °C/104 °F, non-condensing			
	During storage	Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing			
Vibration resistance	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)			
Shock resistance	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)			
Standards and certifications		CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), CCC, EAC			
Compatible screens		Complete range of Magelis iDisplay screens (refer to page 7/5)			
Software	Vijeo Designer (3) and Vijeo XD Run Time Demo	□ Vijeo Designer Run Time Demo (21-day trial version) to be installed from Software DVD. Unlimited license to be ordered separately (3). □ Vijeo XD Run Time demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.			
	Bundle (validated and supported) (5)	–			
References					
	Windows Server 2008 Standard R2	HMIRXOHC A3W01	HMIRXOHC A3001	HMIRSOHP A3W01	
	Windows Server 2012 R2				
Pages		6/10			

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.
(2) 4 RAM slots available which are user accessible.
(3) Require Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.

Universal PC 2U range	Performance PC 4U range
Control rooms and labs	



Intel i3-2120 processor (3.3 GHz), dual core		Intel Xeon™ E3-1225 processor (3.1 GHz), quad core			
Micro ATX		ATX			
2 PCI Express (x16) + 1 PCI		Up to 7 slots: 4 PCI Express (x16) + 3 PCI (including 1 PCI slot used for default removable audio connections)			
4 front hot swap trays (2 SATA2 + 2 SATA3)		1 internal slot (SATA3) + 4 hot swap trays (SATA2)			
1 HDD ≥ 500 GB enterprise 24/7, in front tray with OS	1 SSD ≥ 80 GB in internal slot with OS (4)	1 HDD ≥ 500 GB enterprise 24/7, in front tray with OS	1 SSD ≥ 80 GB in internal slot with OS (4)	2 HDD RAID ≥ 500 GB 24/7 in front trays with OS	
4 GB DDR3 in 1 slot		8 GB DDR3 in 2 slots	4 GB DDR3 in 1 slot	8 GB ECC in 2 slots	
Windows 7 64-bit (Ultimate Multi language)		Windows Server R2 (5 clients)			
240 V ~ (300 W single power supply)		240 V ~ (500 W redundant power supply)			
3 fans, user exchangeable with fan speed control to reduce noise		2 fans, user exchangeable with fan speed control to reduce noise			
2 Ethernet 10/100/1000 Mbps					
2 RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)		2 RS-232 (+ 4 optional with additional HMIYRINSL41)			
2 USB 2.0, 4 USB 3.0		4 USB 2.0, 2 USB 3.0			
2 (Mic, line-out)		2 (Mic, line-out), default in 1 PCI slot			
1 VGA + 1 DVI					
VGA: Up to 2048 x 1536 at 60 Hz, DVI: Up to 1920 x 1200 at 60 Hz					
1 DVD-RW drive					
System reset output, programmable 1...255 s/min					
Yes					
2U in 19" HMIR enclosure (1)		4U in 19" HMIR enclosure (1)			
482 x 88.4 x 523.8 mm/18.98 x 3.48 x 20.68 in.		482 x 172.7 x 523.8 mm/18.98 x 6.8 x 20.68 in.			
IP 40					
Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F					
Conforming to IEC 60068-2-2: –40...70 °C/–40...158 °F					
Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing					
Conforming to IEC 60068-2-78: 10...95% at 60 °C/140 °F, non-condensing					
Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)					
Conforming to IEC 60068-2-27: 10 g/11 ms, half sine wave (except for HDD drive)					
CE, cULus (UL 60950-1, CSA 22.2 N°60950-1-07), CCC, EAC					
Complete range of Magelis iDisplay screens (refer to page 7/5)					
□ Vijeo Designer Run Time Demo (21-day trial version) to be installed from Software DVD. Unlimited license to be ordered separately (3). □ Vijeo XD Run Time demo to be installed and activated by unlimited license HMIRTM CZLSPAZZ.					
–	Vijeo Citect DVD for SCADA applications	–	PES leaflet	Vijeo Citect DVD for SCADA applications	PES leaflet with Windows Server 2012 R2 only
HMIRSUH3A3701	HMIRSUS3A3701	HMIRSPHXA6701	HMIRSPHXA67P1	HMIRSPFXA6701	HMIRSPFXR6702
					–
					HMIRSPSXR6S01
					HMIRSPSXR6T01
6/10					

(4) With 5-year manufacturers warranty and 2 million hours MTBF.
(5) Additional software license to be ordered separately.

Industrial PCs

Magelis iPCs for automation

Magelis HMIR Rack PC

Optimized, Universal and Performance ranges

Presentation

Magelis HMIR Rack PCs are industrial PCs that can be easily installed in a 19" rack enclosure of an automation control room. The HMIRs have:

- Embedded fan speed control for reduced noise
- Hot swappable drive trays
- Optional redundant RAID hard drive
- Remote system monitor for remote access
- Magelis iDisplay for display screen

The Rack PCs are tested, validated and supported by Schneider Electric Plant StruXture software: Vijeo Designer and Vijeo XD HMI software, Vijeo Citect, and PES Engineering. These PCs offer 4 years of service and 4 years minimum of commercial availability. They can also be extended and substituted to new compliant models.

The Magelis HMIR comprises the following ranges which are UL60950-certified for the various requirements of a plant solution:

- Optimized Rack PC 2U (1): for operator stations and some dedicated applications in clean areas of industrial plants or labs
- Universal Rack PC 2U (1): for local SCADA and operator stations
- Performance Rack PC 4U (1): for Engineering and SCADA servers with redundant power supply and server operating system according to model

Overview of the range

Magelis HMIR Optimized 2U (1)

The Optimized HMIRXO Rack PC has an Intel iCore G540 dual-core CPU (2.5 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (mounted by default), user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express® (x8), 1 PCI
- Connection ports: 6 USB 2.0 ports, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA and 1 DVI for video
- 1 optical DVD-RW drive
- Operating systems and storage devices available are:
 - **HMIRXOHC3W01**: Windows® 7 32-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
 - **HMIRXOHC3001**: No operating system and HDD
- Power supply: 110...240 V ~ 300 W

The Optimized HMIRSO Rack PC has an Intel iCore G850 dual core CPU (2.9 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (default mounted), user expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express (x8), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA, 1 DVI and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
- Power supply: 110...240 V ~ 300 W

Magelis HMIR Universal 2U (1)

■ The Universal HMIRSU Magelis Rack PC has an Intel® i3-2120 dual core CPU (3.3 GHz) on a Micro ATX motherboard, with:

- 4 GB DDR3 RAM (default mounted), user expandable up to 32 GB in 4 slots
- 3.5" storage slots: 2 external SATA2 and 2 external SATA4 trays
- Free expansions: 3 slots for 2 PCI Express (x16), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, Audio ports, 1 VGA, 1 DVI and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (Ultimate multi-language installed)
- Storage devices available are:
 - **HMIRSUH3A3701**: 1 x 500 GB Enterprise 24/7 HDD in a tray slot
 - **HMIRSUS3A3701**: 1 x 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF) pre-installed in a tray slot (2)
- Power supply: 110...240 V ~ 300 W

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) Recommended for SCADA applications and delivered with Vijeo Citect DVD. For more information, see page 6/6.



Optimized Magelis Rack PC



Universal Magelis Rack PC



Performance Magelis Rack PC

Presentation (continued)

Magelis HMIR Performance 4U (1)

The Performance HMIRSP Rack PC has an Intel Xeon 1225 quad-core CPU (3.1 GHz) on a ATX motherboard, with:

- RAM, user expandable up to 32 GB in 4 slots
- 3.5" storage slots : 1 internal SATA3 and 4 free external trays SATA2
- Expansions: 4 PCI Express (x16) , 3 PCI with 1 PCI slot used for removable audio connections
- Connection ports: 4 USB 2.0, 2 USB 3.0, 1 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA and 1 DVI port for video
- 1 optical DVD-RW drive

According to HMIRSP models, various default RAMs, storage devices, operating systems, power supplies and software bundles are available:

- **HMIRSPHXA6701**: 4 GB DDR3 RAM (default mounted), 1 HDD 500 GB Enterprise 24/7 in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPHXA67P1** (2): 8 GB DDR3 RAM (default mounted), 1 HDD 500 GB Enterprise 24/7 in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPFXA6701** (3): 4 GB DDR3 RAM (default mounted), 1 SSD 80 GB (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single AC power supply 500 W
- **HMIRSPFXR6702** (3): 4 GB DDR3 RAM (default mounted), 1 SSD 80 GB (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, redundant AC power supply 500 W
- **HMIRSPSXR6S01** (4): 8 GB ECC RAM (default mounted), 2 HDD 500 GB Enterprise 24/7 in redundant RAID configuration installed in 2 tray slots, Windows server 2008 standard R2 operating system including 5 clients, redundant AC power supply 500 W
- **HMIRSPSXR6T01** (4): 8 GB ECC RAM (default mounted), 2 HDD 500 GB Enterprise 24/7 in redundant RAID configuration installed in 2 tray slots, Windows server 2012 R2 operating system including 5 clients, redundant AC power supply 500 W

Storage drive trays and redundant Raid HDD

Magelis HMIRs have hot swappable front trays for storage devices. These trays can be used for a redundant Raid HDD configuration. The Rack PC chipset supports Intel Rapid Storage Technology with internal RAID feature. So when 2 HDDs are available in trays, the RAID can be configured in 2 steps:

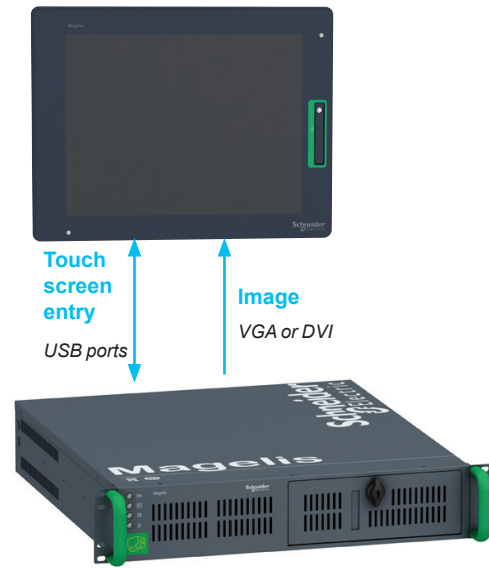
- 1 Assign RAID with configuration menus in the BIOS.
- 2 Adjust the RAID configuration options in the Intel Rapid Storage software provided.

Remote monitoring system for Magelis HMIR

Magelis HMIRs can be monitored remotely by installing the Remote Monitoring application provided in any PC. Several Magelis Rack PCs can be monitored for:

- Managing system recovery (backup and restore) and On/Off (e.g., overnight for energy saving)
- Monitoring system parameters such as network connection, system/CPU temperatures, fan speeds and system voltages
- Configuring alerts via a popup, message, sound, or buzzer with event log entry and system shutdown
- Displaying e-mail alerts and function logs

- (1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.
- (2) Dedicated model for running PlantStruxure Process Expert as an engineering workstation. For more information, see page 6/6.
- (3) Recommended for SCADA applications and delivered with Vijeo Citect DVD. For more information, see page 6/6.
- (4) Dedicated model for Windows Server operating system.



Connection between Magelis Optimized Rack PC and Magelis iDisplay

Presentation (continued)

Magelis iDisplay monitor for Magelis HMIR

Magelis Rack PCs can use a Magelis iDisplay monitor as a display screen by connecting via USB, VGA, or DVI ports. This monitor can be mounted in the cut-out that is created in the front of an enclosure door.

The Magelis iDisplay models HMIDID and MPC are 15" or 19" screens, with 16 M colors, touch screen with/without keypad, and IP 65 front panel protection. They are certified for UL508, UL Hazardous and Marine locations according to the model. For more information on Magelis iDisplay screens, see page 7/5.

Software bundles for Magelis HMIR

Vijeo Designer/Vijeo XD and Magelis Rack PC bundles (1)

Magelis Rack PCs are supported by Schneider Electric HMI software for automation. Vijeo Designer RT or Vijeo XD RT can be installed from the Vijeo Designer or Vijeo XD DVD included with Magelis HMIRs. Vijeo Designer RT can be upgraded to the unlimited version with an additional **VJDSNRTMPC** license (2). Vijeo XD can also be upgraded to the unlimited version with an additional **HMIRTM CZLSPAZZ** license.

Vijeo Citect SCADA and Magelis HMIR bundles

The Vijeo Citect SCADA and Magelis HMIR bundle, recommended for SCADA applications comprises:

- Dedicated models **HMIRSUS3A3701**, **HMIRSPFXA6701** and **HMIRSPFXR6702** delivered with 4 GB RAM, 80 GB SSD (5-year manufacturer warranty and 2 million hours MTBF, allowing numerous read/write operations), and Windows 7 64-bit operating system
- Vijeo Citect DVD
- Recommended user upgrade of default 4 GB RAM in 1 slot with installation of additional **HMIYPRAM3040R1** 4 GB RAM DDR3 expansion in 2nd slot (3)
- Licenses for software activation have to be ordered separately

PlantStruxure Process Expert and Magelis HMIR bundle

The PlantStruxure Process Expert and Magelis HMIR (used as an engineering workstation) bundle comprises:

- Dedicated models:
 - **HMIRSPHXA67P1** with 8 GB RAM (default mounted) and Windows 7 64-bit operating system
 - **HMIRSPSXR6T01** with 8 GB RAM (default mounted) and Windows Server 2012 R2
- Leaflet with instructions for downloading Process Expert software (PES) from the website
- PES licenses for software activation have to be ordered separately. For more information, please contact our Customer Care Center
- Additional part numbers with pre-installed PES software are available in the PES catalog

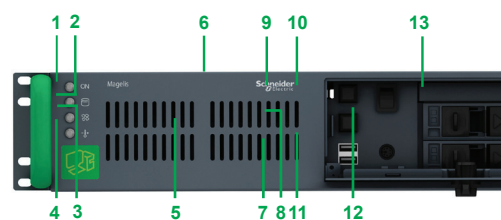
Actassi 19" rack enclosure for Magelis HMIR mounting

Magelis Rack PCs can be mounted on Actassi 19" Rack enclosures. Depending on the Rack PC model weight, additional mounting accessories such as fixed slides/long slides may be required. For more information on Actassi 19" enclosures and mounting accessories, please refer to our website www.schneider-electric.com.

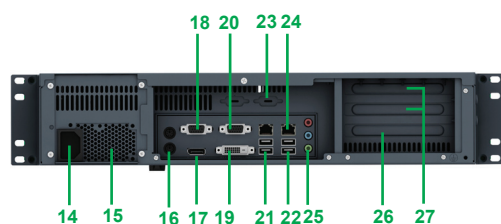
(1) As Magelis Rack PC does not have SRAM, it is recommended to save data on a storage drive (USB stick or SSD) to avoid data loss.

(2) Vijeo Designer RT is not supported on the Windows Server operating system.

(3) 8 GB RAM is recommended for running Vijeo Citect as a server.



Front view of Optimized Magelis Rack PC



Rear view of Optimized Magelis Rack PC

Description

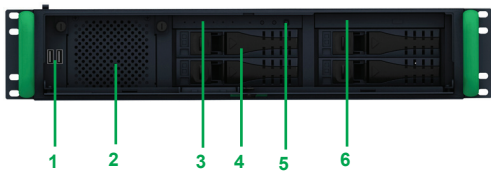
Magelis HMIR Optimized 2U

Front view

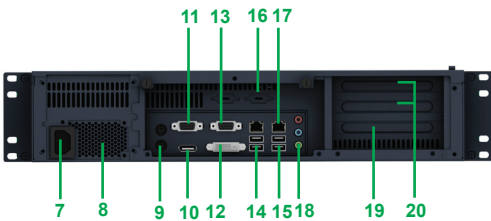
- 1 Power LED
- 2 HDD LED
- 3 Temperature LED
- 4 Fan LED
- 5 2 fans
- 6 SATA3 3.5" internal drive
- 7 2 USB 2.0 ports (USB1 and USB2)
- 8 System reset button
- 9 Alarm reset button
- 10 Power supply switch
- 11 KB/MS connector
- 12 2 x 3.5" hot swap hard disk trays (RAID configuration required for hot swapping operating system)
- 13 Slim optical drive bay

Rear view

- 14 Power connector
- 15 Power supply unit
- 16 KB/MS connector
- 17 Display port connector
- 18 Serial port connector
- 19 DVI connector
- 20 VGA connector
- 21 2 USB 3.0 ports
- 22 2 USB 3.0 ports
- 23 2 spare Sub-D9 slots
- 24 2 LAN ports
- 25 Audio port
- 26 PCI expansion slot
- 27 2 PCI Express expansion slots (x8/x16)

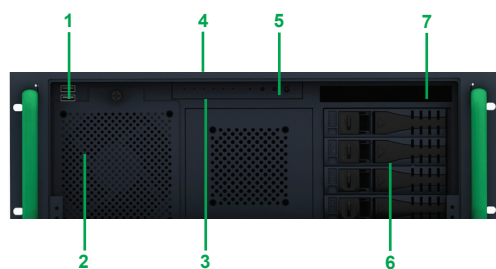


Front view of Universal Magelis Rack PC

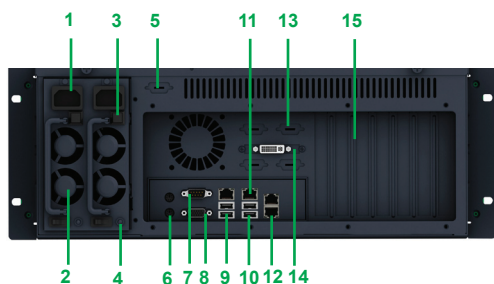


Rear view of Universal Magelis Rack PC

Description (continued)	
Magelis HMIR Universal 2U	
Front view	
1	2 USB 2.0 ports
2	Front-accessible fan
3	5 LED indicators (power, HDD/temperature/fan)
4	2 x 3.5" hot swappable hard disk trays (RAID configuration required for hot swapping operating system)
5	3 buttons (Alarm reset/System reset/Power)
6	Slim optical drive bay
Rear view	
7	Power connector
8	Power supply unit
9	KB/MS connector
10	Display port connector
11	Serial port connector
12	DVI connector
13	VGA connector
14	2 USB 3.0 ports
15	2 USB 3.0 ports
16	2 spare Sub-D9 slots
17	2 LAN ports
18	Audio port
19	PCI expansion slot
20	2 PCI Express expansion slots (x8/x16)



Front view of Performance Magelis Rack PC



Rear view of Performance Magelis Rack PC
(redundant power supply)

Description (continued)

Magelis HMIR Performance 4U

Front view

- 1 2 USB 2.0 ports
- 2 Front-accessible fan
- 3 6 LEDs
- 4 SATA3 3.5" internal drive
- 5 4 switches/buttons
- 6 4 x 3.5" hot swappable hard disk trays(RAID configuration required for hot swapping operating system)
- 7 Slim optical drive bay

Rear view with redundant power supply

- 1 2 power supply connectors (1)
- 2 2 power supply units (2)
- 3 Button
- 4 LED
- 5 Spare Sub-D9 slot
- 6 KB/MS connector
- 7 Serial port connector
- 8 VGA connector
- 9 2 USB 2.0 ports
- 10 2 USB 3.0 ports
- 11 2 LAN ports
- 12 2 spare LAN ports
- 13 4 spare Sub-D9 slots for additional RS-232 with **HMIYRINSL41** accessory kit
- 14 DVI connector
- 15 Expansion slots (max 7): 2 PCI Express x4 and 2 PCI Express x8/x16 and 3 PCI. By default, audio ports are mounted on 1 slot

(1) Only one power supply connector for Rack PCs with single power supply.

(2) Only one power supply unit for Rack PCs with single power supply.



HMIRXOHCA3001

Magelis HMIR Optimized 2U**Intel iCore G540 (2.5 GHz) processor for HMIRXO/G850 (2.9 GHz) processor for HMIRSO/DDR3 RAM/AC power supply**

Expansion slots PCIe/PCI	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
2 PCI Express (x8) + 1 PCI	Windows 7 32-bit (WES 7 Premium full blown)	–	HDD ≥ 500 GB consumer internal + 2 free trays for hot swapping	2 GB	HMIRXOHCA3W01	12.20/26.90
2 PCI Express (x8) + 1 PCI	–	–	–	2 GB	HMIRXOHCA3001	12.20/26.90
2 PCI Express (x8) + 1 PCI	Windows 7 64-bit (WES 7 Premium full blown)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 2 free trays for hot swapping	2 GB	HMIRSOHPA3W01	12.20/26.90



HMIRSUH3A3701

Magelis HMIR Universal 2U**Intel i3-2120 processor (3.3 GHz)/DDR3 RAM/AC power supply**

Expansion slots PCIe/PCI	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7, in first of 4 trays for hot swapping	4 GB	HMIRSUH3A3701	14.50/31.97
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB, in first of 4 trays for hot swapping	4 GB	HMIRSUS3A3701 (4)	14.50/31.97



HMIRSPFXA6701

Magelis HMIR Performance 4U**Intel Xeon™ E3-1225 processor (3.2 GHz)/DDR3 or ECC RAM/AC power supply**

Expansion slots PCIe/PCI	Operating system	Software	Storage slots and drives	RAM	Reference	Weight kg/lb
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPHXA6701 (1)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	PES leaflet	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot swapping	8 GB DDR3	HMIRSPHXA67P1 (1) (4)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPFXA6701 (1)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Vijeo Citect DVD	SSD ≥ 80 GB internal + 4 free trays for hot swapping	4 GB DDR3	HMIRSPFXR6702 (2)	20.80/45.86
4 PCI Express (x16) + 3 PCI (3)	Windows Server 2008 standard R2 including 5 clients	–	2 HDD ≥ 500 GB Enterprise 24/7 in 2 hot swap trays + 2 free trays for hot swapping + 1 free internal SATA slot	8 GB ECC	HMIRSPSXR6S01 (2)	24.20/53.35
	Windows Server 2012 standard R2 including 5 clients	PES leaflet			HMIRSPSXR6T01 (2)	24.20/53.35

(1) Single AC power supply, 500 W.

(2) Redundant AC power supply, 500 W.

(3) By default, audio ports are mounted on 1 PCI slot.

(4) Additional part numbers with pre-installed PES software are available in the PES catalog.

Industrial PCs

Magelis iPCs for automation

Magelis HMIR Rack PC

Separate components

Separate components						
Description	Details	Compatible with Magelis HMIR Rack PC ranges			Reference	Weight kg/lb
		Optimized	Universal	Performance		
Storage disks, expansion RAM, peripheral equipment						
HDD with mounting screws	500 GB (Enterprise 24/7), blank	All models			HMIYHDD500R1	—
	1 TB (Enterprise 24/7), blank	All models			HMIYHDD01TR2	—
SSD with mounting screws	80 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS080S1	—
	160 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS160S1	—
Power cable China	China type power cable	All models			HMIYRCABPWRCN1	—
4 Serial Lines kit for Rack 2U	Optional kit with 4 cables for mother board connection, 2 PCI brackets, and 2 communication ports	All models		—	HMIYRINSL21	—
4 Serial Lines kit for Rack 4U	Optional kit with 1 PCB for mother board connection, screws and 2 x 2 m cables and 2 communication ports for spare housing	—		All models	HMIYRINSL41	—
Expansion RAM 4 GB for HMIR	4 GB DDR3	All models except HMIRSPSXR6S01			HMIYPRAM3040R1	—
Expansion RAM 4 GB for HMIR	8 GB DDR3	All models except HMIRSPSXR6S01			HMIYPRAM3080R1	—
Expansion RAM 4 GB for Rack server	4 GB ECC	—		HMIRSPSXR6S01	HMIYPRAME040R1	—
Expansion RAM 4 GB for Rack server	8 GB ECC	—		HMIRSPSXR6S01	HMIYPRAME080R1	—
Maintenance kit						
Maintenance kit for Rack PC 2U	USB cable, fans, holders, filters, motherboard screws, HDD screws, SATA cables and door keys	All models	—		HMIYRMKT2O1	—
Maintenance kit for Rack PC 2U		—	All models	—	HMIYRMKT2U1	—
Maintenance kit for Rack PC 4U		—		All models	HMIYRMKT4P1	—
Power supply						
300 W power supply for Rack PC 2U	Spare single 110-240 V AC power supply	All models		—	HMIYRMAC21	—
500 W power supply for Rack PC 4U		—		HMIRSPHXA6701 HMIRSPHXA67P1 HMIRSPFXA6701	HMIYRMAC41	—
500 W redundant power supply for Rack PC 4U	Spare redundant 110-240 V AC power supply	—		HMIRSPFXR6702 HMIRSPSXR6S01	HMIYRMRC41	—
Software						
Vijeo Designer RT license for 1 workstation	Converts the 21-day trial version of Vijeo Designer RT Demo to an unlimited license	All models			VJDSNRTMPC	—
Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)			VJDSNTRCKV60M	—
Vijeo XD RT license for 1 workstation	Converts the 21-day trial version of Vijeo XD RT Demo to an unlimited license	All models			HMIRTM CZLSPA ZZ	—

Magelis™ HMIDID iDisplay screens

Selection guide page 7/2

■ **Presentation**..... page 7/4

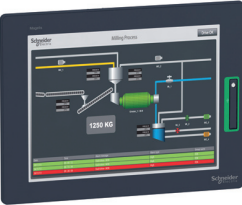
■ **Architecture** page 7/4

■ **References** page 7/5

■ **Separate parts**..... page 7/5

■ **Substitution** page 7/5

Industrial PCs
Magelis HMIDID iDisplay screens for automation
12" and 15" flat screens

Industrial PCs		Magelis iDisplay flat screens
Model		12" touch screens
		
Screen	Type	12" color TFT high definiton LCD
	Definition	XGA 1024 x 768
	Number of colors	16 M colors
	Brightness	≥ 400 cd/m² adjustable, 100 level dimming with Brightness sensor
	Backlighting service life	50,000 hours
Touch screen		Multi-touch resistive
I/O ports	On the front panel	1 USB 2.0 (Type A)
	Other	1 DVI-D video (DVI-D 24 pin socket) 1 USB 2.0 (Type B) from touch screen to PC with driver up to Windows® 8.1 Supplied with 5 m/16.40 ft DVI-D and USB cables
Standards and certifications		CE Europe RCM Australia UL 508 and CSA C22.2 No142, Industrial Control Equipment ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations IECEX/ATEX (1) for use in zones 2/22 EAC (Russia, Belarus, Kazakhstan) Marine Germanischer Lloyd (GL)
Supply voltage		12...24 V ~
Consumption		17 W max.
Degree of protection		IP 66F, IP 67F and UL50E TYPE4X/13 for the front panel when installed properly in an enclosure
Mounting		Panel on front enclosure or VESA 100 X 100 on the rear of iDisplay
Dimensions	Overall dimensions (W x H x D)	315 × 241 × 67 mm/12.40 × 9.50 × 2.64 in.
	Cut-out (W x H)	301.5 × 227.5 mm/11.87 × 8.96 in.
Environment	Operating temperature	0...60 °C/32...140 °F, according to EN 61131-2 and UL
	Storage temperature	-20...60 °C/-4...140 °F
	Shock resistance	IEC/EN 61131-2 compliant: ■ 147 m/s² ■ X, Y, Z directions tested for 3 times
	Vibration resistance	Conforming to JIS B 3501 and IEC 61131-2 standards: ■ 5...9 Hz, 3.5 mm fixed amplitude ■ 9...150 Hz: constant acceleration of 1 g (9.8 m/s²) ■ X, Y, Z directions tested 10 times (100 minutes)
Type		HMIDID64DTD1
Pages		7/5

Magelis iDisplay flat screens	
15" touch screen	
	
15" color TFT LCD	
XGA 1024 x 768	
16 M colors	
≥ 400 cd/m² adjustable, 100 level dimming with Brightness sensor	
50,000 hours	
Multi-touch resistive	
1 USB 2.0 (Type A)	
1 DVI-D video (DVI-D 24 pin socket) 1 USB 2.0 (Type B) from touch screen to PC with driver up to Windows 8.1 Supplied with 5 m/16.40 ft DVI-D and USB cables	
CE Europe RCM Australia UL 508 and CSA C22.2 No142, Industrial Control Equipment ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations IECEX/ATEX (1) for use in zones 2/22 EAC (Russia, Belarus, Kazakhstan) Marine Germanischer Lloyd (GL)	
12...24 V ~	
21 W max.	
IP 66F, IP 67F and UL50E TYPE4X/13 for the front panel when installed properly in an enclosure	
Panel on front enclosure or VESA 100 X 100 on the rear of iDisplay	
397 × 296 × 67 mm/15.63 × 11.65 × 2.64 in.	
383.5 × 282.5 mm/15.10 × 11.12 in.	
0...60 °C/32...140 °F, according to EN 61131-2 and UL	
-20...60 °C/-4...140 °F	
IEC/EN 61131-2 compliant: ■ 147 m/s² ■ X, Y, Z directions tested for 3 times	
Conforming to JIS B 3501 and IEC 61131-2 standards: ■ 5...9 Hz, 3.5 mm fixed amplitude ■ 9...150 Hz: constant acceleration of 1 g (9.8 m/s²) ■ X, Y, Z directions tested 10 times (100 minutes)	
HMIDID73DTD1	
7/5	



Industrial PCs

Magelis HMIDID iDisplay screens for automation
12" and 15" flat screens



HMIDID73DTD1

Presentation

Magelis HMIDID iDisplay screens are monitors with industrial flat screens designed for use with PCs. The 4:3 auto-scaler format screens of iDisplay adapt to screen definition.

Two screen sizes are available: 12" and 15" to suit various requirements.

Magelis HMIDID enhances user experience and efficiency by multi-touch support like the smart phone. In addition to panel mounting, Magelis iDisplay also offers VESA 100x100 mounting on the rear side of the product.

Magelis HMIDID screens are certified for PLC product standards and designed for use in severe industrial environments (up to 60 °C, with LED backlight (50,000-hr life) and waterproof front IP 67f). They support excellent screen sizes or dimension ratios for easy installation on any machine or in any equipment.

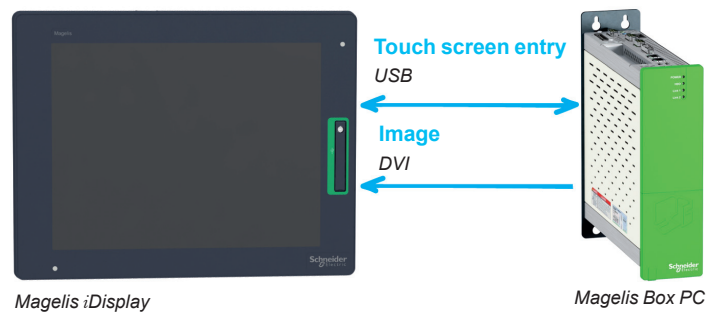
These screens are easily connected to the PC via:

- Standard DVI digital video with auto-scaler
- USB with touch screen drivers (supports up to Windows® 8.1)

Magelis iDisplay screens have the same cut-out dimensions as Magelis HMI Panels, making it easy to upgrade installations.

Architecture

Magelis iDisplay screens are compatible with Magelis Box PC, S-Box PC, and Rack PCs (1).



(1) For more information, please refer to pages 5/4 to 5/11, 4/4 to 4/7, 6/4 to 6/11.



HMIDID64DTD1

References

Description	Screen	Interface	Supply voltage	Reference	Weight kg/lb
Flat screen for flush mounting, IP 66f, IP 67f front panel (3)	12", XGA resistive (1024 x 768)	Multi-touch	12...24 V $\overline{\text{---}}$	HMIDID64DTD1 (1)	3.9/8.6
	15", XGA resistive (1024 x 768)	Multi-touch	12...24 V $\overline{\text{---}}$	HMIDID73DTD1 (1)	5.2/11.5

Separate parts

Description	No. of units	Reference	Weight kg/lb
Extra-long cable (10 m/32.81 ft) for connection with Magelis Box PC and Magelis Panel PC industrial PCs (2)	–	HMIYCABDVI1011	–
USB clamp Type B (1 port) for Magelis iDisplay	5	HMIYDUSBCA111	–
iDisplay Adaptation plate from 19" to 15"	–	HMIYAD1915D1	–

Substitution

Old industrial PCs		Replaced by Magelis Box PCs	
Description	Reference	Description	References
Magelis iDisplay 15"		Magelis iDisplay 15" Multi-touch	
15", XGA	HMIDID7DT0	15", XGA resistive	HMIDID73DTD1

(1) Supplied with 5 m/16.4 ft DVI cable.

(2) For more information, see page 3/27.

(3) Magelis iDisplay offers VESA 100 x 100 mounting on the rear of the product.

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MPCFN05MAX00V	5/11		
MPCFN05NAX00N	5/11		
MPCFN05NDX00N	5/11		
MPCHN02NAX00N	5/11		
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MPCHN05MAX00V	5/11		
MPCHN05NAX00N	5/11		
MPCHN05NBX00N	5/11		
MPCHN05NDX00N	5/11		
MPCKN02NAX00N	5/11		
MPCKT12NAX00N	3/30		
MPCKT22MAX20N	3/30		
MPCKT22NAX20N	3/30		
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MPCKT55MAX20N	3/30		
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MPCSN01NAJ00T	5/11		
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MPCST11NDJ00T	3/30		
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MPCST52NAJ20H	3/30		
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Human Machine Interface



Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Reuil-Malmaison
France

www.schneider-electric.com/hmi

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