

# Human/Machine Interfaces

Magelis™ Panels and Industrial PCs

Global selection guide  
January 2017



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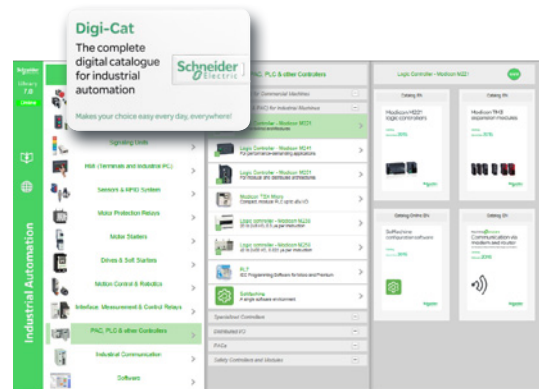
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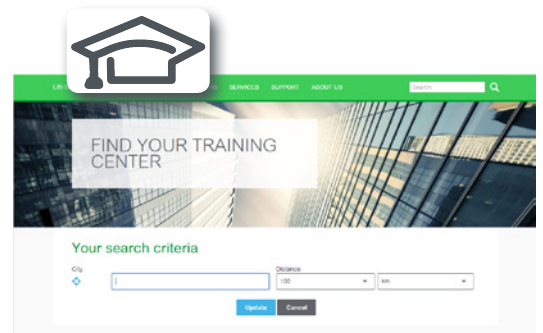
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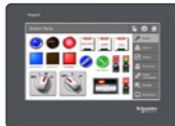

Life Is On



# Human Machine Interfaces

Small and Advanced panels  
Magelis STO & STU, Magelis XBTGH

<b>Applications</b>	<b>Display of graphic pages</b>	
<b>Type of terminal</b>	<b>Small panels with touch screen</b>	
		
<b>Screen</b>	Definition 320 x 240 pixels, QVGA	320 x 240 pixels, QVGA
	Type 3.5" color TFT LCD	5.7" color TFT LCD
<b>Data entry</b>	Via touch screen	
<b>Memory capacity</b>	Application 32 MB Flash EPROM	
	Expansion –	
<b>Functions</b>	Limited by internal Flash EPROM memory capacity	
	Maximum number of pages Unlimited	
	Variables per page Unlimited	
	Representation of variables Alphanumeric, bitmap, bargraph, gauge, curves, buttons, LEDs	
	Recipes 32 groups of 64 recipes	
	Curves Yes, with log	
	Alarm logs Yes	
	Real-time clock Access to the PLC real-time clock	
	Multimedia I/O –	
	Buzzer Yes	
<b>Communication</b>	Asynchronous serial link RS-232C/RS-485	
	Downloadable protocols Uni-TE, Modbus and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens	
	Printer link USB port for serial or parallel printer	
	USB ports Type A connector and 1 device type mini-B	
	Networks 1 Ethernet TCP/IP port (10BASE-T/100BASE-TX)	
<b>Development software</b>	Vijeo Type A connector (on Windows XP Professional and Windows 7 Business 32-bit and 64-bit)	
<b>Operating system</b>	Magelis	
<b>References</b>	<b>HMISTU655</b> <b>HMISTU655W</b>	<b>HMISTU855</b> <b>HMISTU855W</b>
<b>Page</b>	Please refer to Magelis STU and STO Small panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

<b>Display of graphic pages</b>	<b>Display of text messages, graphic objects and synoptic views Control and configuration of data</b>	
<b>Small panels with touch screen</b>	<b>Advanced hand-held panels</b>	
		
200 x 80 pixels, backlit - Green, orange and red, or - White, pink and red	480 x 272 pixels	640 x 480 pixels
3.4" monochrome STN LCD	4.3" color TFT LCD	5.7" color TFT LCD
Via touch screen		
16 MB Flash EPROM	26 MB Flash EPROM	32 MB Flash EPROM
–		By means of 128 MB, 256 MB, 512 MB, 1 GB or 2 GB CF card (1)
Limited by internal Flash EPROM memory capacity		Limited by capacity of internal Flash EPROM memory or CF card memory
Unlimited		Unlimited (8000 variables max.)
Alphanumeric, bitmap, bargraph, gauge, curves, buttons, LEDs		Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
32 groups of 64 recipes		32 groups of 64 recipes comprising 1024 ingredients max.
Yes, with log		Yes, with log
Yes		Yes
Access to the PLC real-time clock	Option: RTC battery set	Built-in
–		1 audio output
Yes		–
RS-232C/RS-485 (2) RS-232C using Zelio protocol (3)		RS-232C/RS-422/RS-485 (COM1)
Uni-TE, Modbus and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens in		Uni-TE (4), Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Rockwell Automation and Siemens
USB for serial or parallel printer		–
1 host type A and 1 device type mini-B		1
1 Ethernet TCP/IP port (10BASE-T/100BASE-TX) (5)		1 Ethernet TCP/IP port (10BASE-T/100BASE-TX)
Vijeo Designer (on Windows XP Professional and Windows 7 Business 32-bit and 64-bit)	Vijeo XD (on Windows 7 and Windows 8)	Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)
Magelis		Magelis (266 MHz RISC CPU)
<b>HMISTO5●●</b>	<b>HMISTO7●5</b>	<b>XBTGH2460/ XBTGH2460B (6)</b>
Please refer to Magelis STU and STO Small panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .		Please refer to Magelis GH Advanced hand-held panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .

(1) Except for HMIGTW●●●● with 4 GB SD memory card.  
 (2) Only HMISTO511/512.  
 (3) Only HMISTO501.  
 (4) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.  
 (5) Only HMISTO531/532.  
 (6) Version without Emergency stop button.

# Human Machine Interfaces

## Advanced optimum panels

### Magelis GTO

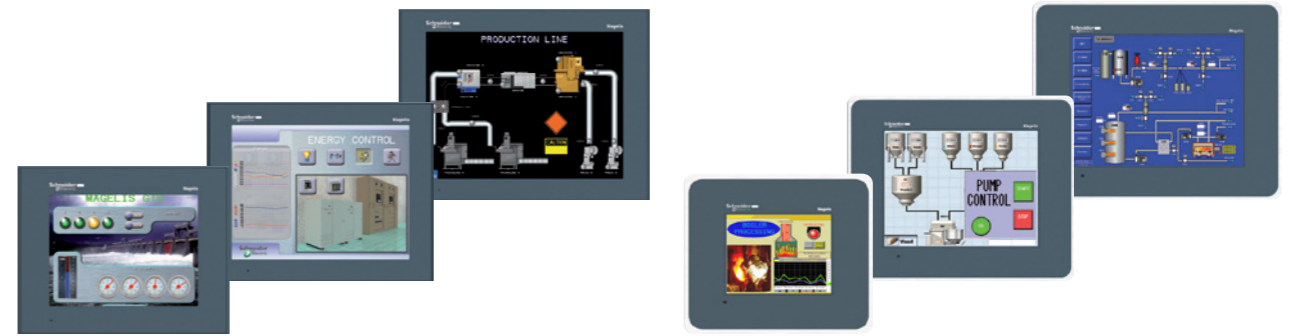
<b>Applications</b>	Display of text messages, graphic objects, and synoptic views Control and configuration of data
<b>Type of terminal</b>	Advanced optimum panels with touch screen



<b>Screen</b>	Definition	320 x 240 pixels, QVGA backlit	800 x 480 pixels, WVGA backlit	
	Type	3.5" color TFT LCD	5.7" color TFT LCD	W7.0" color TFT LCD
<b>Data entry</b>	Via touch screen	Via touch screen	Via touch screen	
	Static function keys	6 function keys (static or dynamic)	8 function keys (static or dynamic)	
	Dynamic function keys	–	–	
	Service keys	–	–	
<b>Memory capacity</b>	Applications	64/96 MB Flash EPROM (1)	96 MB Flash EPROM	
	Expansion	–	By 4 GB SD card (except HMIGTO2300)	
<b>Functions</b>	Maximum number of pages	Limited by internal Flash EPROM memory capacity	Limited by capacity of internal Flash EPROM memory or of SD card	
	Variables per page	Unlimited (8000 variables max.)		
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED		
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.		
	Curves	Yes, with log		
	Alarm logs	Yes		
	Real-time clock	Built-in		
	Discrete I/O	–		
	Multimedia I/O	–		
	<b>Degree of protection (according to IEC 60529)</b>	IP 65 (IP 67 with addition of a cover)		
	<b>Communication</b>	Asynchronous serial link	RS-232C (COM1) and RS-485 (COM2) except HMIGTO1310: RS 232C/485 (COM1)	
Downloadable protocols		Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens		
Asynchronous serial link		RS-232C (COM1) and RS-485 (COM2) except HMIGTO1310: RS 232C/485 (COM1)		
USB ports		1 type A host connector + 1 type mini-B connector		
<b>Development software</b>	Buses and networks	Ethernet TCP/IP (10BASE-T/100BASE-TX) (3), Modbus Plus and Fipway via USB gateway		
	Printer link	RS-232C (COM1) serial link (4) and USB port for parallel printer		
<b>Operating system</b>	Vijeo Designer (on Windows XP and Windows 7)			
<b>References</b>	Magelis (333 MHz RISC CPU)			
<b>Page</b>	<b>References</b>	<b>HMIGTO1300</b> <b>HMIGTO1310</b>	<b>HMIGTO2300</b> <b>HMIGTO2310</b>	<b>HMIGTO3510</b>
		Please refer to Magelis GTO Advanced panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .		

(1) Depending on model.  
 (2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.  
 (3) Except HMIGTO1300 and GTO2300 (Modbus Plus and Fipway via USB gateway only).  
 (4) Except HMIGTO1310 (USB port for parallel printer only).

Display of text messages, graphic objects, and synoptic views Control and configuration of data					
Advanced optimum panels with touch screen			Advanced optimum panels with touch screen, "Stainless Steel" version		



640 x 480 pixels, VGA backlit	640 x 480 pixels, VGA backlit	800 x 600 pixels, SVGA backlit	320 x 240 pixels, QVGA backlit	640 x 480 pixels, VGA backlit	800 x 600 pixels, SVGA backlit
7.5" color TFT LCD	10.4" color TFT LCD	12.1" color TFT LCD	5.7" color TFT LCD	10.4" color TFT LCD	12.1" color TFT LCD
Via touch screen					
–					
–					
–					
–					
96 MB Flash EPROM					
By 4 GB SD card					
Limited by capacity of internal Flash EPROM memory or of SD card					
Unlimited (8000 variables max.)					
Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED					
32 groups of 64 recipes comprising 1024 ingredients max.					
Yes, with log					
Yes					
Built-in					
–					
–					
IP 65 (IP 67 with addition of a cover)			IP 66K (Front panel with stainless steel frame) for food & beverage environment		
RS-232C (COM1) and RS-485 (COM2)					
Uni-TE (2), Modbus, Modbus TCP/IP (1) and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens					
RS-232C (COM1) and RS-485 (COM2)					
1 type A host connector + 1 type mini-B connector					
Ethernet TCP/IP (10BASE-T/100BASE-TX), Modbus Plus and Fipway via USB gateway					
RS-232C (COM1) serial link and USB port for parallel printer					
Vijeo Designer (on Windows XP and Windows 7)					
Magelis (333 MHz RISC CPU)					
<b>HMIGTO4310</b>	<b>HMIGTO5310</b>	<b>HMIGTO6310</b>	<b>HMIGTO2315</b>	<b>HMIGTO5315</b>	<b>HMIGTO6315</b>
Please refer to Magelis GTO Advanced panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .					



# Human Machine Interfaces

## Universal panels

### Magelis GTU

**Applications**

Display of text messages, graphic objects, and synoptic views  
Control and configuration of data

**Type of display module**

**Advanced display**



<b>Screen</b>	Definition	800 x 480 pixels, 262 K colors	1,280 x 800 pixels, 262 K colors	1,280 x 800 pixels, 262 K colors
	Type	7" color TFT	10" color TFT	12" color TFT
<b>Data entry</b>	Touch pad	Single-touch resistive	Single-touch resistive	Single-touch resistive
<b>Functions</b>	Brightness sensor	-	-	-
	Front USB ports	-	-	-
	Wireless Ethernet	-	-	-
<b>Ambient temperature</b>		0...60 °C		
<b>Supply voltage</b>		12...24 V ---		
<b>Dimensions</b>	External W×H×D (mm/in.)	204 × 149 × 67/ 8.03 × 5.86 × 2.64	269 × 199 × 67/ 10.59 × 7.83 × 2.64	309 × 231 × 67/ 12.17 × 9.09 × 2.64
	Cut-out W×H (mm/in.)	190 × 135/7.48 × 5.31	255 × 185/10.03 × 7.28	295 × 217/11.61 × 8.54
<b>Standards and certifications</b>		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX Zone 2/22, EAC, KC		
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS		
<b>Compatible box models</b>		Premium and Open box models		
<b>Display module reference</b>		<b>HMIDT351</b>	<b>HMIDT551</b>	<b>HMIDT651</b>
<b>Pages</b>		Please refer to Magelis GTU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .		

**Type of box module**

**Premium box**



<b>CPU</b>		RISC, 600 MHz
<b>Operating system</b>		Real Time Magelis on 1 GB SD storage
<b>Pre-installed software</b>		Vijeo Designer RT (1)
<b>Memory</b>	RAM/SRAM (backup)	256 MB/512 KB
	Storage units	x2 SD card
<b>Functions</b>	Real-time clock	Yes, built-in
	Graphic	Alphanumeric, bitmap, bargraph, gauge, tank, indicator, curve, polygon, button, lamp
	Data	Alarm with log, trend with log, recipe, script
	Maximum number of variables	8,000
<b>Protocols</b>		Uni-TE, Modbus, Modbus TCP/IP, and PLC brands Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB
<b>Communication</b>	Ethernet port	x2 RJ45 10BASE-T/100BASE-TX/1000BASE-T
	Serial line	RJ45 RS-485 (COM1) + SubD9 RS-232/RS-485/RS-422 (COM2)
	Fieldbus	Fipio/Fipway and Modbus Plus via USB Gateway
	USB	2 USB Type-A (2.0) + 1 USB Type-mini B (2.0)
<b>Discrete I/O</b>		Terminal block with 1 speaker + 1 alarm + 1 buzzer output
<b>Multimedia I/O</b>		-
<b>Standards and certifications</b>		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX (1) Zone 2/22, EAC, KC
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS
<b>Display units supported</b>		HMIDT351, HMIDT551, HMIDT651, HMIDT542, HMIDT642, HMIDT732
<b>Compatible display models</b>		Advanced and Smart display models
<b>Box module reference</b>		<b>HMI3U</b>
<b>Pages</b>		Please refer to Magelis GTU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .

(1) Intelligent Data Service (IDS) of Vijeo Designer is an add-on option.  
Note: All combinations of display and box modules are possible except for HMIDT643.

**Display of text messages, graphic objects, and synoptic views  
Control and configuration of data**

**Smart display**



<b>Screen</b>	Definition	800 x 600 pixels, 16 M colors	1,024 x 768 pixels, 16 M colors	1,024 x 768 pixels, 16 M colors
	Type	10.4" color TFT	12.1" color TFT	15" color TFT
<b>Data entry</b>	Touch pad	Multi-touch resistive	Multi-touch resistive	Multi-touch resistive
<b>Functions</b>	Brightness sensor	Yes	Yes	Yes
	Front USB ports	1 host + 1 device	1 host + 1 device	1 host + 1 device
	Wireless Ethernet	-	Yes (up to 30 m/98 ft)	-
<b>Ambient temperature</b>		0...60 °C		
<b>Supply voltage</b>		12...24 V ---		
<b>Dimensions</b>	External W×H×D (mm/in.)	273 × 215 × 67/ 10.74 × 8.46 × 2.64	315 × 241 × 67/ 12.40 × 9.50 × 2.64	397 × 296 × 67/ 15.63 × 11.65 × 2.64
	Cut-out W×H (mm/in.)	259 × 201/10.20 × 7.91	302 × 228/11.90 × 8.98	384 × 283/15.11 × 11.14
<b>Standards and certifications</b>		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX Zone 2/22, EAC, KC		
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS		
<b>Compatible box models</b>		Premium and Open box models	Open box model	Premium and Open box models
<b>Display module reference</b>		<b>HMIDT542</b>	<b>HMIDT642</b>	<b>HMIDT643 (2)</b>
				<b>HMIDT732</b>
<b>Pages</b>		Please refer to Magelis GTU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .		

**Open box**



<b>CPU</b>		x86, 1.3 GHz
<b>Operating system</b>		Windows 7 Embedded on 16 GB CFast storage
<b>Pre-installed software</b>		Vijeo Designer RT (1), Office & PDF Readers, CAD Viewer, Internet browser, .Net 4.0, VNC Client/Server, Vijeo Citect web client (1)
<b>Memory</b>	RAM/SRAM (backup)	2 GB/512 KB
	Storage units	SD card and x2 CFast
<b>Functions</b>	Real-time clock	Yes, built-in
	Graphic	Alphanumeric, bitmap, bargraph, gauge, tank, indicator, curve, polygon, button, lamp
	Data	Alarm with log, trend with log, recipe, script
	Maximum number of variables	12,000
<b>Protocols</b>		Uni-TE, Modbus, Modbus TCP/IP and PLC brands Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB
<b>Communication</b>	Ethernet port	x2 RJ45 10BASE-T/100BASE-TX/1000BASE-T
	Serial line	RJ45 RS-485 (COM1) + SubD9 RS-232/RS-485/RS-422 (COM2)
	Fieldbus	Modbus Plus via USB Gateway
	USB	3 USB Type-A (2.0) + 1 USB Type-mini B (2.0)
<b>Discrete I/O</b>		Terminal block with 1 speaker + 1 alarm + 1 buzzer output
<b>Multimedia I/O</b>		1 Microphone input + 1 DVI output
<b>Standards and certifications</b>		CE, RCM, cULus Industrial Control Equipment (UL 508 and CSA C22.2 No. 142), cULus Hazardous Locations ANSI/ISA 12.12.01 and CSA C22.2 No. 213 Class I, IECEx/ATEX (1) Zone 2/22, EAC, KC
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS
<b>Display units supported</b>		HMIDT351, HMIDT551, HMIDT651, HMIDT542, HMIDT642, HMIDT643, HMIDT732
<b>Compatible display models</b>		Advanced and Smart display models
<b>Box module reference</b>		<b>HMI5U</b>
<b>Pages</b>		Please refer to Magelis GTU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .

(2) HMIDT643 is compatible with only box HMI5U and requires Vijeo Designer version V6.2 SP3 or later.

# Human Machine Interfaces

## Advanced Keypad-Touchscreen panels

### Magelis GK


<b>Applications</b>	Display of text messages, graphic objects and synoptic views Control and configuration of data	
<b>Type of terminal</b>	Keypad-Touchscreen panels	
		
<b>Screen</b>	Type	Color TFT LCD
	Size	5.7"
	Resolution	QVGA, 320 x 240 pixels, 65 K colors
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F
<b>Data entry</b>	Via keypad and/or touchscreen (configurable) and/or industrial pointer	
	Static function keys	10
	Dynamic function keys	14
	Service keys	8
	Alphanumeric keys	12
<b>Memory capacity</b>	Application	128 MB Flash EPROM
	Expansion	4 GB SD Card
<b>Functions</b>	Maximum number of pages	Limited by capacity of internal Flash EPROM memory or SD card memory
	Variables per page	Unlimited (8000 variables max.)
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
	Discrete I/O	-
	Multimedia I/O	-
<b>Communication</b>	Downloadable protocols	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens
	Asynchronous serial link	RS-232C (COM1) RS-485 (COM2)
	USB ports	2
	Bus and networks	Modbus Plus, Fipway with USB gateway Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Printer link	RS-232C (COM1) serial link, USB port for parallel printer
	Development software	Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)
<b>Operating system</b>	Magelis (CPU 333 MHz RISC)	
<b>References</b>	<b>HMIGK2310</b>	
<b>Page</b>	Please refer to Magelis GK Advanced Keypad-Touchscreen panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

<b>Applications</b>	Display of text messages, graphic objects and synoptic views Control and configuration of data	
<b>Type of terminal</b>	Keypad-Touchscreen panels	
		
<b>Screen</b>	Type	Color TFT LCD
	Size	10.4"
	Resolution	VGA, 640 x 480 pixels, 65 K colors
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F
<b>Data entry</b>	Via keypad and/or touchscreen (configurable) and/or industrial pointer	
	Static function keys	12
	Dynamic function keys	18
	Service keys	8
	Alphanumeric keys	12
<b>Memory capacity</b>	Application	128 MB Flash EPROM
	Expansion	4 GB SD Card
<b>Functions</b>	Maximum number of pages	Limited by capacity of internal Flash EPROM memory or SD card memory
	Variables per page	Unlimited (8000 variables max.)
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
	Discrete I/O	-
	Multimedia I/O	-
<b>Communication</b>	Downloadable protocols	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens
	Asynchronous serial link	RS-232C (COM1) RS-485 (COM2)
	USB ports	2
	Bus and networks	Modbus Plus, Fipway with USB gateway Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Printer link	RS-232C (COM1) serial link, USB port for parallel printer
	Development software	Vijeo Designer (on Windows XP Professional and Windows 7 Professional 32/64-bit)
<b>Operating system</b>	Magelis (CPU 333 MHz RISC)	
<b>References</b>	<b>HMIGK5310</b>	
<b>Page</b>	Please refer to Magelis GK Advanced Keypad-Touchscreen panels catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	


# Human Machine Interfaces

## Industrial PC and display

### Magelis HMIP Panel PCs

Type of Magelis iPC	Magelis HMIPS S-Panel PC	
	HMIPSO Optimized	HMIPSP Performance
		
<b>Fanless</b>	★★★★★	
<b>Mounting type</b>	Panel PC	
<b>Display</b>	<input type="checkbox"/> W10" multi-touch projected capacitive technology screen <input type="checkbox"/> W15" multi-touch projected capacitive technology screen <input type="checkbox"/> W19" multi-touch projected capacitive technology screen	
Definition	HD WSVGA, 1280 × 800 pixels	HD WFXGA, 1366 × 768 pixels
Front protection	IP 66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch	
<b>CPU</b>	Intel® Atom E3827 dual-core (1.75 GHz)   Intel Core™ i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)	
Expansion slots	1 optional full-size mini PCIe slot with optional interface slot (1)	1 full-size mini PCIe slot with optional interface slot
Storage	CFast card ≥ 16 GB, or SSD flash disk ≥ 80 GB with 2 million hours MTBF (1), or HDD hard disk ≥ 500 GB Enterprise 24/7 (1)	
RAM	4 GB (not extendable)	8 GB (not extendable)
Hot-swap RAID HDD and battery backup	-	
<b>Operating system</b>	None, or WES 7 Premium SP1 (64-bit), or Windows® 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	
<b>Supply voltage</b>	24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSOMAC1.	
<b>Standards and certifications</b>	<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> RCM <input type="checkbox"/> EAC <input type="checkbox"/> CCC <input type="checkbox"/> FCC (part 15 EMC Class A)	<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> RCM <input type="checkbox"/> EAC <input type="checkbox"/> CCC <input type="checkbox"/> FCC (part 15 EMC Class A)
<b>Software</b>	<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo XL with Configured-To-Order Magelis iPC <input type="checkbox"/> Vijeo Citect DVD is only for installation (depending on the model). Software activation license to be ordered separately.	
<b>References</b>	<b>HMIPSO●552D1●01</b> <b>HMIPSO●752D1●01</b>	<b>HMIPSP●752D1●01</b> <b>HMIPSP●952D1●01</b>
<b>Pages</b>	Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	
<b>Configured-To-Order</b>	Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	


(1) With HMIYPADPSOSTO1 expansion kit for HMIPSO allowing 1 HDD/SSD slot and 1 mini PCIe slot.  
 (2) Available with HMIPSO and HMIPSP Configured-To-Order offer only.


Magelis HMIPSP Enclosed Panel PC	Magelis HMIP Panel PC 12"	
HMIPSP Performance	HMIPU Universal	HMIPP Performance
		
<b>Fanless</b>	★★★★★	★★★★★
<b>Mounting type</b>	Enclosed PC	Panel PC
<b>Display</b>	<input type="checkbox"/> W19" multi-touch projected capacitive technology screen <input type="checkbox"/> 12" single-touch resistive	
Definition	HD WFXGA, 1366 × 768 pixels	XGA, 1024 × 768 pixels
Front protection	IP 66 on all 6 faces, NEMA 4X indoor, and 7H hardness anti-scratch	IP 65 and Nema 4X indoor front panel protection when mounted on panel or enclosure door
<b>CPU</b>	Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)	Intel Core 827E (1.4 GHz)   Intel Core i3-3217UE dual-core (1.6 GHz)
Expansion slots	1 full-size mini PCIe slot	2 optional PCI/PCIe slots with expansion module HMIPCI●61
Storage	SSD flash disk ≥ 80 GB with 2 million hours MTBF	CFast card ≥ 4 GB (SLC technology) or SSD flash disk ≥ 60 GB with 2 million hours MTBF   HDD hard disk ≥ 500 GB Enterprise 24/7
RAM	8 GB (not extendable)	2 GB (user extendable)   4 GB (user extendable)
Hot-swap RAID HDD and battery backup	-	Optional battery backup   Optional hot-swap RAID HDD and battery backup
<b>Operating system</b>	None, or WES 7 Premium SP1 (64-bit), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	Windows Embedded Standard 2009 or Windows 7 Ultimate 64-bit Professional   Windows® 7 Ultimate (64-bit Multi-language)
<b>Supply voltage</b>	24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSMAC1.	24 V ~ (± 20%) or 100...240 V ~
<b>Standards and certifications</b>	<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> RCM <input type="checkbox"/> EAC <input type="checkbox"/> CCC <input type="checkbox"/> FCC (part 15 EMC Class A)	<input type="checkbox"/> CE <input type="checkbox"/> cULus (UL 508, CSA 22.2 No.142) <input type="checkbox"/> cULus Haz Loc Class I Div 2 (ANSI/ISA 12.12.01, UL 1604, CSA 22.2 No. 213) <input type="checkbox"/> C-Tick <input type="checkbox"/> GOST
<b>Software</b>	<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ. <input type="checkbox"/> Vijeo XL with Configured-To-Order Magelis iPC <input type="checkbox"/> Vijeo Citect DVD is only for installation (depending on the model). Software activation license to be ordered separately.	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ.
<b>References</b>	<b>HMIPSP●952D1●01</b>	<b>HMIPUC6●●●●●●</b> <b>HMIPUF6●●●●●●</b>
<b>Pages</b>	Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	
<b>Configured-To-Order</b>	Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

(3) Win 8.1 requires user activation.


# Human Machine Interfaces


Industrial PC and display  
Magelis Modular Box PC Magelis  
HMIBM Modular Box PCs and  
Modular HMIDM Displays

<b>Type of Magelis iPC</b>		<b>Magelis HMIBM Modular Box PC HMIBMU Universal</b>	
			
<b>Fanless</b>		★★★★ (1)	
<b>Box PC or Panel PC mounting</b>		Box PC: HMIBM Box wall/book mounting or Panel PC: HMIBM Box + associated HMIDM Display	
<b>CPU (1)</b>	Processor	Intel Celeron® 2980U dual-core (1.6 GHz)	
	Expansion slots	2 full-size mini PCIe with 2 optional interface slots	
	Storage	None, or CFAST card ≥ 16 GB, or SSD flash disk ≥ 80 GB with 2 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
	RAM	4 GB (not extendable)	8 GB (not extendable)
Hot-swap RAID HDD and battery backup		Optional	
<b>Operating system</b>		None, or WES 7 Premium SP1 (64-bit), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	None or Configured-To-Order offer
<b>Conformal coating</b>		-	Yes
<b>Supply voltage</b>		18...36 V ~ or 100...240 V ~ with modular power adapter HMIYMMAC1	
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus Industrial Control (UL 61010, CSA 22.2 No.142 ) <input type="checkbox"/> RCM <input type="checkbox"/> cULus Hazardous locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) <input type="checkbox"/> EAC <input type="checkbox"/> CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22 <input type="checkbox"/> CCC	
<b>Software</b>	Vijeo Designer and Vijeo XD RT Demo	<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ <input type="checkbox"/> Vijeo XL with Configured-To-Order Magelis iPC <input type="checkbox"/> Vijeo Citect DVD, depending on the model (4)	None or Configured-To-Order offer
	<b>References</b>	<b>HMIBMU•I29D••01</b>	<b>HMIBMU0I29D•00A</b>
<b>Pages</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	
<b>Configured-To-Order</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

<b>Modular displays for Panel PC mounting</b>		<b>Magelis HMIDM Modular Display</b>	
			
<b>Display</b>	Type	4:3 15" single-touch resistive	W15" multi-touch capacitive
	Definition	XGA, 1024 × 768 pixels	WHD FWXGA, 1366 × 768 pixels
	Front protection	IP 66, NEMA 4X indoor, and 7H hardness anti-scratch	
	Front USB port	1 USB 2.0 port	None
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus Industrial Control (UL 61010, CSA 22.2 No.142 ) <input type="checkbox"/> Marine DNV <input type="checkbox"/> cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) <input type="checkbox"/> RCM <input type="checkbox"/> CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22 <input type="checkbox"/> EAC <input type="checkbox"/> FCC (part 15 EMC Class A) <input type="checkbox"/> CCC	
<b>Panel PC mounting</b>		All HMIBM Modular Box PCs are mounted behind the displays	
<b>References</b>		<b>HMIDM7421</b>	<b>HMIDM7521</b>
<b>Pages</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

(1) HMIYBKT4BM11 fan kit is required only when PCI/PCIe expansions cards above 3 W are installed.  
(2) Available with Configured-To-Order offer only.

<b>Magelis HMIBM Modular Box PC HMIBMP Performance</b>	
	
★★★★ (1)	
Box PC: HMIBM Box wall/book mounting or Panel PC: HMIBM Box + associated HMIDM Display	
Intel Core i7-4650U 4th generation (1.7 GHz)	
2 full-size mini PCIe with 2 optional interface slots	
None or 2 PCI/PCIe	
None, or SSD flash disk ≥ 80 GB with 2 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
8 GB (not extendable)	16 GB (not extendable)
Optional	
None, or WES 7 Premium SP1 (64-bit) (2), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Win 8.1 Industry (64-bit Multi-language) (3)	None or Configured-To-Order offer
-	Yes
18...36 V ~ or 100...240 V ~ with modular power adapter HMIYMMAC1	
<input type="checkbox"/> CE <input type="checkbox"/> cULus Industrial Control (UL 61010, CSA 22.2 No.142 ) <input type="checkbox"/> RCM <input type="checkbox"/> cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2) <input type="checkbox"/> EAC <input type="checkbox"/> CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22 <input type="checkbox"/> CCC <input type="checkbox"/> Marine DNV (without HDD) <input type="checkbox"/> RCM <input type="checkbox"/> EAC <input type="checkbox"/> CCC	
<input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ <input type="checkbox"/> Vijeo XL with Configured-To-Order Magelis iPC <input type="checkbox"/> Vijeo Citect DVD, depending on the model (4)	None or Configured-To-Order offer
<b>HMIBMP•I74D••01</b>	<b>HMIBMP0I74D•00A</b>
Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	
Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

<b>Magelis HMIDM Modular Display</b>	
	
W19" multi-touch capacitive	W22" multi-touch capacitive
WHD FWXGA, 1366 × 768 pixels	Full HD, 1920 × 1080 pixels
IP 66, NEMA 4X indoor, and 7H hardness anti-scratch	
None	
<input type="checkbox"/> CE <input type="checkbox"/> RCM <input type="checkbox"/> CCC <input type="checkbox"/> cULus (UL IT 60950, CSA IT 60950) <input type="checkbox"/> EAC <input type="checkbox"/> FCC (part 15 EMC Class A)	
All HMIBM Modular Box PCs are mounted behind the display	
<b>HMIDM9521</b>	<b>HMIDMA521</b>
Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

(3) Win 8.1 requires user activation.  
(4) Vijeo Citect DVD is only used for installation. Software activation license has to be ordered separately.



# Human Machine Interfaces

## Industrial PC and display

Magelis HMIBS S-Box and HMIR Rack PCs,  
Magelis HMIDID iDisplay monitors

Type of Magelis iPC		Magelis HMIBS S-Box PC	
		HMIBSO Optimized	HMIBSU Universal
<b>Fanless</b>		★★★★★	★★★★★
<b>CPU (1)</b>	Processor	Intel Atom N270 (1.6 GHz)	Intel Atom N2600 (1.6 GHz)
	PCI slot	1 half-size mini PCIe	1 full-size mini PCIe
	Storage	CFast card	CFast card   SSD(1)
	RAM	2 GB	4 GB
<b>Operating system</b>		Windows Embedded Standard 2009	Windows 7 32-bit (WES 7 Premium)   --
<b>Supply voltage</b>		9...36 V ~	12...24 V ~
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus	<input type="checkbox"/> EAC <input type="checkbox"/> CCC <input type="checkbox"/> RCM
<b>Software</b>	Vijeo Designer and Vijeo XD RT Demo	<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ	
	Bundle (validated and supported)	--	
<b>Compatible display models</b>		Compatible with all screens of Magelis iDisplay range	
<b>References</b>		<b>HMIBSOCND1E01</b>	<b>HMIBSUCND1W01</b>   <b>HMIBSUSND1W01</b>   <b>HMIBSU0ND1001</b>
<b>Pages</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

Type of Magelis iPC		Magelis HMIDID iDisplay - remote monitors with DVI port	
<b>Display</b>	Type	12" color multi-touch resistive	
	Definition	XGA, 1024 × 768 pixels	
	Front protection	IP 65	
	Front USB port	1 USB 2.0 port	
<b>Supply voltage</b>		12...24 V ~	
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> EAC	<input type="checkbox"/> RCM <input type="checkbox"/> KC <input type="checkbox"/> ATEX/IECEX
<b>Marine certifications</b>		<input type="checkbox"/> BV <input type="checkbox"/> CCS <input type="checkbox"/> DNV	<input type="checkbox"/> GL <input type="checkbox"/> LR <input type="checkbox"/> RINA <input type="checkbox"/> ABS
<b>Compatibility</b>		All PCs with video port	
<b>Reference</b>		<b>HMIDID64DTD1</b>	
<b>Page</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

(1) With 5-year Intel warranty and 2 million hours MTBF  
(2) Require Vijeo Designer V6.2 SP2 or later to build and download HMI application.

Magelis HMIR Rack PC			
Rack PC 2U Optimized HMIR.O (3)	Rack PC 2U Universal HMIRSU (3)	Rack PC 4U Performance HMIRSP (3)	
<b>Fanless</b>			
Intel Core G540 (2.5 GHz)	Intel Core G850 (2.9 GHz)	Intel Core i3-2120 (3.3 GHz)	Intel Xeon™ Quad core E3-1225 (3.1 GHz)
2 PCIe (x8) + 1 PCI		2 PCIe (x16) + 1 PCI	Up to 7 slots: 4 PCIe (x16) + 3 PCI
No storage drive or 1 HDD	1 HDD	1 HDD or 1 SSD	1 HDD, 2 HDD RAID, or 1 SSD
2 GB DDR3		4 GB DDR3	4 GB DDR3, 8 GB ECC, or 16 GB DDR3
None or Windows 7	Windows 7	Windows 7	Windows 7, or Windows Server 2008 Standard R2, or Windows Server 2012 R2
110...240 V ~ (300 W single power supply)			
<input type="checkbox"/> CE <input type="checkbox"/> cULus	<input type="checkbox"/> EAC <input type="checkbox"/> CCC	<input type="checkbox"/> RCM	
--		<input type="checkbox"/> Vijeo Designer RT Demo (21-day trial version). Unlimited license, to be ordered separately (VJDSNRTMPC) (2). <input type="checkbox"/> Vijeo XD RT Demo to be installed and activated by unlimited license HMIRTMZLSPAZZ	
		None or Vijeo Citect DVD for SCADA applications	None or Vijeo Citect DVD, or PES leaflet
Compatible with all screens of Magelis iDisplay range			
<b>HMIRXOHA301</b>	<b>HMIRSOHPA3W01</b>	<b>HMIRSU03A3701</b>	<b>HMIRSP0X06000</b>
Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .			

Type of Magelis iPC		Magelis HMIDID iDisplay - remote monitors with DVI port	
<b>Display</b>	Type	15" color multi-touch resistive	
	Definition	XGA, 1024 × 768 pixels	
	Front protection	IP 65	
	Front USB port	1 USB 2.0 port	
<b>Supply voltage</b>		12...24 V ~	
<b>Standards and certifications</b>		<input type="checkbox"/> CE <input type="checkbox"/> cULus <input type="checkbox"/> EAC	<input type="checkbox"/> RCM <input type="checkbox"/> KC <input type="checkbox"/> ATEX/IECEX
<b>Marine certifications</b>		<input type="checkbox"/> BV <input type="checkbox"/> CCS <input type="checkbox"/> DNV	<input type="checkbox"/> GL <input type="checkbox"/> LR <input type="checkbox"/> RINA <input type="checkbox"/> ABS
<b>Compatibility</b>		All PCs with video port	
<b>Reference</b>		<b>HMIDID73DTD1</b>	
<b>Page</b>		Please refer to Magelis Industrial PC and Display catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

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

# Human Machine Interfaces

HMI controllers  
Magelis SCU

<b>Applications</b>	Display of text messages, graphic objects and mimics, control and configuration of data	
<b>Terminal type</b>	IEC 1131-2 control function Small HMI controllers For control of simple machine	
		
<b>Display</b>	Definition	65K colors
	Type	3.5" color TFT LCD   5.7" color TFT LCD
<b>Data entry</b>	Via touch screen	
<b>Memory capacity</b>	Application	128 MB Flash EPROM
	Expansion	—
<b>Functions</b>	Maximum number of pages and maximum number of instructions	Limited by internal Flash EPROM memory capacity
	Variables per page	Unlimited (8000 variables max.)
	Programmed logic	5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)
	Counting/positioning	2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train outputs
	Control (PID)	Yes
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
<b>I/O</b>	Integrated	<input type="checkbox"/> 14 x 24 V $\overline{DC}$ digital inputs <input type="checkbox"/> 2 high speed counter (HSC) inputs <input type="checkbox"/> 8 digital relay outputs <input type="checkbox"/> 2 pulse train source transistor outputs
	I/O modular expansion	—
<b>Communication</b>	Downloadable protocols	Modbus, Modbus TCP/IP (1)
	Asynchronous serial link	RS-232C/RS-485 (COM1)
	USB ports	1 Host type A + 1 Device type mini-B
	Buses and networks	1 CANopen master
	Printer link	Ethernet TCP/IP (10BASE-T/100 BASE-TX) USB port for parallel printer
<b>Design software</b>	SoMachine on Windows XP Professional and Windows 7 Professional 343647/64-bit (please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> ).	
<b>Operating system</b>	Magelis (333 MHz RISC CPU)	
<b>References</b>	<b>HMISCU6A5</b>	<b>HMISCU8A5</b>
<b>Pages</b>	Please refer to Magelis SCU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

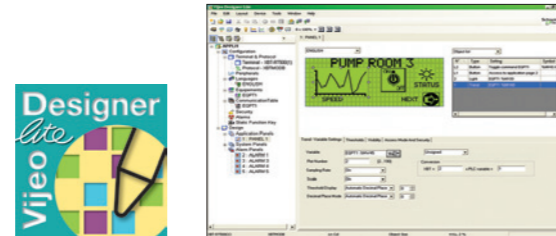
(1) Depending on model.

<b>Applications</b>	Display of text messages, graphic objects and mimics, control and configuration of data	
<b>Terminal type</b>	IEC 1131-2 control function Small HMI controllers For control of simple process	
		
<b>Display</b>	Definition	65K colors
	Type	3.5" color TFT LCD   5.7" color TFT LCD
<b>Data entry</b>	Via touch screen	
<b>Memory capacity</b>	Application	128 MB Flash EPROM
	Expansion	—
<b>Functions</b>	Maximum number of pages and maximum number of instructions	Limited by internal Flash EPROM memory capacity
	Variables per page	Unlimited (8000 variables max.)
	Programmed logic	5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)
	Counting/positioning	2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train outputs
	Control (PID)	Yes
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
<b>I/O</b>	Integrated	<input type="checkbox"/> 6 x 24 V $\overline{DC}$ digital inputs <input type="checkbox"/> 2 high speed counter (HSC) inputs <input type="checkbox"/> 6 digital relay outputs <input type="checkbox"/> 2 pulse train source transistor outputs <input type="checkbox"/> 2 x 13-bit analog inputs (Voltage/current) <input type="checkbox"/> 2 x 16-bit analogue temperature inputs (TC/PT100-1000) <input type="checkbox"/> 2 x 12-bit analog outputs (Voltage/current)
	I/O modular expansion	—
<b>Communication</b>	Downloadable protocols	Modbus, Modbus TCP/IP (1)
	Asynchronous serial link	RS-232C/RS-485 (COM1)
	USB ports	1 Host type A + 1 Device type mini-B
	Buses and networks	1 CANopen master
	Printer link	Ethernet TCP/IP (10BASE-T/100 BASE-TX) USB port for parallel printer
<b>Design software</b>	SoMachine on Windows XP Professional and Windows 7 Professional 343647/64-bit (please refer to our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> ).	
<b>Operating system</b>	Magelis (333 MHz RISC CPU)	
<b>References</b>	<b>HMISCU6B5</b>	<b>HMISCU8B5</b>
<b>Pages</b>	Please refer to Magelis SCU catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

# Human Machine Interfaces

## HMI configuration software for HMI terminals

**Applications** Traditional architecture, HMI executed on PC platform or dedicated terminal  
Configuration software for operator dialogue applications



<b>Compatible products</b>	Type	Magelis™ XBTN/R/RT Small panels (1)
	Maximum number of targets	1
	Operating system on terminals	Proprietary Magelis
<b>Functions</b>	Reading/writing of PLC variables	Yes
	Display of variables	Yes
	Data processing	–
	Sharing of variables between HMI applications	–
	Saving of variables to external database	–
<b>Internationalization</b>		–
<b>Development of graphic applications</b>	Native library of graphic objects	Yes
	Curves and alarms	Yes (2)
	Scripts	–
<b>Communication between HMI application and PLCs</b>		Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens)
<b>Uploading of applications</b>		Yes
<b>Simulation of HMI applications</b>		Yes
<b>Recipe management</b>		–
<b>Report and barcode printing</b>		–
<b>Screen capture</b>		–
<b>Access security</b>		Linked to user profiles
<b>Interface languages</b>		Screens, online help and documentation in electronic format available in 6 languages: English, French, German, Italian, Simplified Chinese and Spanish
<b>OS compatibility</b>		Windows XP Professional, Windows Vista Business (32-bit), Windows 2000 Professional
<b>References</b>		<b>Vijeo Designer™ Lite</b>
<b>Pages</b>		Please refer to Vijeo Designer catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .

(1) All Magelis XBT and Magelis GTO/GTU terminals behave transparently on restoration of power.  
(2) Depending on compatible product.

**Applications** Traditional architecture, HMI executed on PC platform or dedicated terminal  
Configuration software for operator dialogue applications



	Magelis™ STO/STU Small panels Magelis™ XBTGT/GK/GH/GTW/GTO Advanced panels and Magelis™ GTU Universal panels (1) Magelis™ industrial PCs	Magelis STO color Magelis GTO Advanced panels and Magelis GTU Universal panels Magelis Industrial PCs
	32	1
	Proprietary for Magelis STO/STU, Magelis XBTGT/GK/GH and Magelis GTO/GTU Windows XP embedded for Magelis GTW	Proprietary for Magelis STO color, Magelis GTO/GTU Windows Embedded Standard 7 for Magelis Industrial PCs
	Yes, up to 8000 internal and external variables	
	Yes	
	Yes, using expression editor or Java programming	Yes, using convertor or action editor
	Up to 300 variables between 8 terminals, without router PLC Proprietary protocol above TCP/IP	–
	Yes, with the Intelligent Data Service extension	–
	Up to 15 languages supported by 34 western alphabets, 4 Asian alphabets and 2 middle eastern alphabets embedded in the application	Up to 32 languages supported by 34 type of fonts embedded in the application
	Yes	
	Yes, with log	
	Java	–
	Via I/O drivers: Schneider Electric or third party protocols (Mitsubishi, Omron, Rockwell Automation, Siemens)	
	Yes	–
	Yes	
	Yes, up to 32 groups, 1024 ingredients for 256 recipes per group, proprietary or CSV format, complete multilingual support for labels and ingredients	
	On the fly alarms, log data. Up to 9999 active alarms, record or logs Main barcode types supported: UPC-A, UPC-E, JAN/EAN8, JAN/EAN13, ITF, CODE39, CODE93, CODE128, CODABAR (NW-7)	–
	Yes, for Magelis XBTGT (XBTGT1105 and higher), Magelis GTO/GTU and Magelis industrial PCs. JPEG format	Yes, for Magelis GTU Open Box and Magelis industrial PCs. PNG format
	Linked to user profiles	
	Screens, online help and documentation in electronic format available in 8 languages: English, French, German, Italian, Brazilian Portuguese, Traditional Chinese, Simplified Chinese and Spanish	
	Windows XP Professional, Windows 7 Business (32-bit and 64-bit)	Windows 7, 8.1, 10 (32-bit and 64-bit)
	<b>Vijeo Designer™</b>	<b>Vijeo XD™</b>
	Please refer to Vijeo Designer catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	Please refer to Vijeo XD catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .

USB accessories (programmable with Vijeo Designer)

Monolithic USB tower lights



<b>Description</b>	<ul style="list-style-type: none"> <li>3 multi-color LEDs</li> <li>clear lens</li> <li>2-tone buzzer (up to 85 dB at 1 m/3.28 ft distance)</li> <li>pre-assembled USB cable for easy connection</li> <li>USB cable clamp to help ensure firm connection</li> </ul>	
<b>Degree of protection</b>	IP 54	
<b>Dimensions</b>	Ø 60 mm/2.36 in.	
<b>Power consumption</b>	2 W	
<b>Product certifications</b>	CE, UL, CSA, GOST, and RCM	
<b>Type of mounting/cut-out</b>	Mounting on support tube with fixing plate: 4x Ø 6 mm/0.24 in.	Direct mounting on horizontal support: 3x Ø 5 mm/0.20 in.
<b>Connection</b>	USB cable with type A female connector: <ul style="list-style-type: none"> <li>300 mm/11.81 in. for tube mounting</li> <li>400 mm/15.75 in. for direct mounting</li> </ul>	
<b>Compatibility with Magelis</b>	Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U (1)	
<b>References</b>	<b>XVGU3SWV</b>	<b>XVGU3SHAV</b>
<b>Pages</b>	Please refer to USB accessories for HMI terminal catalog on our website <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .	

(1) Except GT1000 series of Magelis XBTGT

Illuminated USB switch

USB keyboard

Biometric USB switch



<ul style="list-style-type: none"> <li>5 customizable soft/static function keys</li> <li>multi-color LED backlight or alarm acknowledgment</li> </ul>	<ul style="list-style-type: none"> <li>USB keyboard with 12 keys and integrated LEDs that can be used as user customizable function keys or alphanumeric input keys</li> </ul>	<ul style="list-style-type: none"> <li>Manages access to HMI data via USB port</li> <li>Levels of authorization through fingerprint recognition</li> <li>Traceability of users and operations</li> <li>Database management from PC</li> </ul>
IP 65	IP 65	IP 65
80 x 97.6 x 31.5 mm/3.15 x 3.84 x 1.24 in. (H x W x D)	54 x 122 x 28 mm/2.13 x 4.80 x 0.08 in. (H x W x D)	54 x 69.3 x 38.8 mm/2.13 x 2.73 x 1.53 in. (H x W x D)
2 W or less	0.75 W or less	1.6 W max.
UL, CSA, CE and GOST	CSA, GOST-R, KCC, CE and UL	UL, CSA, GOST, and CE
Mounted on flat surface: M22	Mounted on flat surface: M22	Mounted on flat surface/vertical surface: M22
USB mini-B cable	USB type B cable	USB cable (1 m/3.28 ft) with type A male connector cable
Magelis Panel PC/Box PC, Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U/G5U (1)	Magelis HMI GTO/GXO/STO/STU/SCU/G3U	Magelis Panel PC/Box PC, Magelis XBT GT/GC, HMI GK/GTO/GXO/STU/SCU/G3U/G5U (1)
<b>HMIZRA1</b>	<b>HMIZKB1</b>	<b>XB5S5B2L2</b>
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Human Machine Interface



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Photos: Schneider Electric