



Human Machine Interfaces Product Line-up Guide

Harmony Panels and Industrial PCs

schneider-electric.com/HMI

Life Is On

Schneider
Electric

EcoStruxure for Harmony HMI

EcoStruxure is Schneider Electric's innovative IoT-enabled, plug-and-play, open, interoperable architecture and platform addressing the needs of automation applications for a wide range of industries. The EcoStruxure platform is the functional technology backbone, which enables embedded connectivity and intelligence using standard-based communication protocols. This has three levels or layers, namely: Connected Products, Edge Control, and Apps, Analytics & Services, that can be hosted in the cloud as well as on premise.

The Harmony Industrial PCs and Edge Box offer meets IIoT challenges at the Edge Control level by enabling secure communication from connected products on the shop floor to the required software and applications on the top floor. All Basic and Advanced Harmony HMI panels meets IIoT challenges at the Edge Control and Connected Products level, by enabling secure communication to the required Software. This provides improved profitability and new business opportunities, through enhanced asset performance for more efficient operation and maintenance of capital assets.



Harmony Families

Basic HMI panels for simple machines



Basic HMI controller

HMI software



Advanced HMI panels for performance machines



Industrial PCs for line management



Recommended applications by HMI key products

	Marine	Control Panel Builders	HVAC&R	Pumping	Packaging	Food & Beverages	Oil & Gas	Material Handling	Material Working	WWW	MMM
Harmony ST6/STW6/STM6	✓ ✓ *	✓	✓ ✓	✓ ✓	✓ ✓	✓					
Harmony STO7	✓ ✓		✓	✓	✓						
Harmony GTU	✓ ✓				✓ ✓	✓ ✓		✓ ✓	✓ ✓	✓	✓ ✓
Harmony GTUX							✓ ✓			✓ ✓	
Harmony iPC and Edge Box	✓				✓	✓ ✓	✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓

✓ ✓ Highly recommended * STM6 only

General content

■ Product Panorama

- Basic HMI panels for simple machines [page 6](#)
- Advanced HMI panels for performance machines [page 7](#)
- Harmony Industrial PCs for line management [page 8](#)
- HMI software and services [page 10](#)
- Harmony USB accessories [page 12](#)

■ Quick Product Selection Tables

- Basic HMI panels for simple machine [page 14](#)
- Advanced HMI panels for performance machines [page 14](#)
- Harmony Industrial PCs for line management [page 15](#)
- HMI software comparison table [page 16](#)
- Harmony USB compatible accessories table [page 16](#)

Product Panorama

Basic HMI panels for simple machines

Harmony ST6 — High-resolution and cost-efficient basic HMI

Supporting Software



Harmony STM6: W4", W7"
Harmony ST6/STW6: W4", W7", W10", W12", W15"



Modular Harmony STM6

- Cost-effective with good quality
- Fits into Schneider EcoStruxure Architecture
- Superior high-resolution screen with 16M colors
- Powered by new-generation software "EcoStruxure Operator Terminal Expert" for high-quality graphics and stylish design
- Tool-free mounting with newly-designed mounting fastener, no need for screwdriver
- 2x Ethernet with Dual IP, end-to-end Cybersecurity
- Modular HMI version with push button 22 mm/0.866 in. mounting system
- Web HMI version with embedded browser (instead of HMI software) for visualizing HTML5 servers on industrial devices



EcoStruxure Operator Terminal Expert



HTML 5

Harmony STO7 — Compact color HMI

Supporting Software



Harmony STO7: W4.3"

- TFT color screen with 480 x 272 pixels
- Removable logo stickers
- Larger screen with full-size ratio in the 4.3" class
- 3 versions for various communication types



EcoStruxure Operator Terminal Expert

Harmony GTO — Standard HMI

Supporting Software



Harmony GTO: 3.5", 5.7", W7", 7", 10", 12"

- Excellent brightness with TFT 65K colors
- Stainless steel panel for food and beverage applications
- Standard front and IP65 degree of protection
- Extended Temperature - up to 55 °C/131 °F
- Easy to install and sustainable offer
- Full range of international certifications
- No logo and full conformal coating versions available



Vijeo Designer

Harmony STU — Cut-out free HMI

Supporting Software



Harmony STU: 3.5", 5.7"

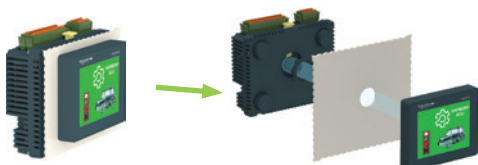
- Compact for space saving
- Innovative tool-free mounting via 22.5 mm/0.885 in. hole
- Ethernet port RJ45 10BASE-T/100BASE-TX
- Separately mounted via 3 m or 5 m cable with mounting adapter
- Modular design for easy maintenance



Vijeo Designer

Harmony SCU — Cut-out free HMI controller

Supporting Software



Harmony SCU: 3.5", 5.7"

- Optimum all-in-one combination for HMI and Control
- Innovative tool-free mounting via 22.5 mm/0.885 in. hole
- Reduce machine assembly time and cost
- Space saving
- Embedded CANopen port for field networking
- Modular design for easy maintenance



EcoStruxure Machine Expert

Advanced HMI panels for performance machines

Harmony GTU — High performance modular HMI

Supporting Software



Harmony GTU: W7", 10", W10", 12, W12", 15", W15", W19"



EcoStruxure Operator Terminal Expert



EcoStruxure Machine SCADA Expert



Vijeo Designer

- 8 sizes of high-resolution displays ranging from 7" to 19", either with modern 16:9 or standard 4:3 ratio
- 3 boxes, two with Real Time OS and one with fully open Windows based
- Up to 2 separate Ethernet ports, serial communication ports, and field bus options suiting IoT
- Industrial multi-touch and fully coated offer
- All memory removable for PC-free box replacements
- Wireless LAN enabled display
- Easy to install with integrated mounting fastener and antidrop lock
- Multi-display capability with Open box using DVI interface or multi-display adapter

Harmony GTUX — eXtreme HMI

Supporting Software



Harmony GTUX: W7", W12", W15"



Vijeo Designer

- A wide temperature range from -30...+70 °C / -22...+158 °F
- Sunlight Readable: High brightness LCD (1000 cd/m²), anti-glare surface
- Robustness: UV Protection, conformal coated (fully coated)
- Dust and water proof (IP66F, IP67F and UL50E Type 4X (Outdoor use))
- Environmental standard: Class 1, Div. 2, ATEX/IECEX Zone 2/22
- Variety of interfaces including dual Ethernet ports
- Modular design with stainless front face

Harmony HMIGK — Keyboard HMI

Supporting Software



Harmony HMIGK: 5.7", 10.4"



Vijeo Designer

- Fine control inputs even in severe environment
- Touch screen and keypad keys configurable simultaneously or separately
- Highly robust with operating temperatures up to 55 °C / 131 °F, reducing maintenance problems and time

Magelis XBTGH — Hand-held panel

Supporting Software



Magelis XBTGH: 5.7"



Vijeo Designer

- Excellent mobility
- Emergency switch
- Dead-man switch (3 safety positions for operator protection)
- 11 function keys with insert labels
- Can be carried in one hand, left or right-handed

Harmony Industrial PCs and Edge Box for line management

Harmony P6 Industrial PCs - Drive efficiency and productivity at the Edge of EcoStruxure

Supporting Software



Node-RED



EcoStruxure Operator Terminal Expert



EcoStruxure Machine SCADA Expert



Harmony P6 Modular Box
Harmony P6 Modular Display: 12", 15", W15.6", W18.5"

- HMIP6 Modular Box PCs
- Advanced Modular Box PC
 - Intel Core i5 up to 4.1 GHz or Intel Core i7 up to 4.4 GHz or Intel Celeron up to 2.0 GHz, UHD Graphics accelerator
 - 8 to 32 GB or 4 to 16 GB DDR4 RAM, 1x M.2 SSD SATA and 2x 2.5-inch SATA (HDD/SSD) storage slots
 - USB Type A (2x USB 2.0 and 2x USB 3.0), USB Type C (1x USB 3.0), 1x COM RS-232C, 2x RJ45 Ethernet, 1x Display port
 - 2x interface slots and optional extension module for 2x PCI/PCIe slots
 - Default TPM module for encryption
- Standard Modular Box PC
 - Intel Core i3 up to 3.9 GHz, UHD Graphics accelerator
 - 8 to 32 GB DDR4 RAM, 1x M.2 SSD SATA and 1x 2.5-inch SATA (HDD/SSD) storage slots
 - USB Type A (2x USB 2.0 and 2x USB 3.0), USB Type C (1x USB3.0), 1x COM RS-232C, 2x RJ45 Ethernet, 1x Display port
 - 2x interfaces slots
 - Default TPM module for encryption
- HMIP6 Modular Display
 - 4:3 12"/15" XGA color LCD resistive analog multi-touch (2 points) screen with 1x USB 2.0 (Type A), and front USB cover
 - 16:9 15.6"/18.5" projected capacitive multi-touch (2 points) screen, 7H hardness, anti-scratch, 3 touch mode configuration
 - IP66, Nema 4X indoor front panel
 - All models are certified for CE, RCM, UL 61010-2-201, CSA C22.2 No. 61010-2-201, UL121201 (1), and CSA C22.2 No. 213 (1)
 - All DC models are certified for IECEx/ATEX for use in Zone 2 gas/Zone 22 dust (1), DetNorske Veritas - Germanischer Lloyd (DNV-GL) (1)

Harmony S-Panel PC — Slim All-in-one design

Supporting Software



EcoStruxure Operator Terminal Expert



EcoStruxure Machine SCADA Expert



Harmony S-Panel PC: W10.1", W18.5"

- HMIPSO Optimized
 - Intel Atom E3827 dual-core 1.75 GHz, fanless
 - 4 GB DDR3 RAM, None or 32 GB CFast or 128 GB SSD or 500 GB HDD storage slots
 - Expansion kit allowing 1x SATA HDD/SSD slot and 1x mini PCIe slot
 - W10" and W15" multi-touch projected capacitive technology screens
- HMIPEP Enclosed Panel PC Performance
 - Intel i3-4010U dual-core 1.7 GHz, fanless
 - 8 GB DDR3 RAM, None or 128 GB SSD storage slot
 - 1x Mini PCIe full slot, M12 connectors
 - W19" multi-touch projected capacitive technology screen

(1) Available in H2 2021.

(2) EcoStruxure Machine SCADA Expert Runtime will be available as preinstalled version for Harmony HMIP6 in Q1 2021.

Harmony Industrial PCs and Edge Box for line management

Harmony Edge Box — Edge Control for EcoStruxure Machine and EcoStruxure Plant

Supporting Software



Node-RED



EcoStruxure Operator Terminal Expert



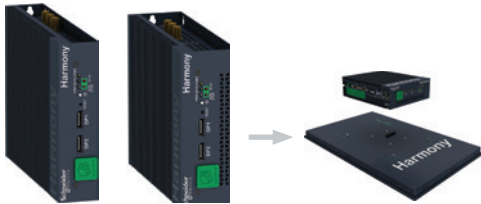
EcoStruxure Machine SCADA Expert



HMIBSC



HMIBMI



HMIBMO

- HMIBSC (1)
 - Qualcomm ARM Cortex-A53 Quad-core up to 1.2 GHz
 - 1 or 2 GB RAM, 2x Ethernet, 1x COM RS-232/432/485, 2x USB, 1x HDMI (for configuration only)
 - 8 GB or 64 GB eMMC (soldered), 1x SD card slot, 1x mini PCIe slot and 1x M.2 slot for expansions (2), antenna connectors
 - Runs Node-RED to wired devices on the Industrial Internet of Things
- HMIBMI
 - Intel Atom “Apollo lake” E3930 Dual-core 1.8 GHz fanless
 - 4 GB RAM, 2x Ethernet, 1x COM, 2x USB, 1x DP (working with modular display HMIDM mounted)
 - 64 GB or 128 GB eMMC (soldered), 1x mini PCIe (2) slot, antennas connectors
 - Runs Node-RED to wired devices on the Industrial Internet of Things
- HMIBMO
 - Intel Atom “Apollo lake” E3930 Dual-core 1.8 GHz fanless
 - 4 GB or 8 GB RAM, 2x Ethernet (supporting real time), 2x COM, 4x USB, 2x DP (both working with modular display HMIDM mounted)
 - None or 64 GB or 250 GB M.2 SSD, 1x mini PCIe slot (without optional interface) (2), antenna connectors
 - Expandable model with HDD/SSD 2.5" slot and optional interface for Mini PCIe (2)
 - Runs Node-RED to wired devices on the Industrial Internet of Things

Harmony Modular Display — Display for Edge Box family



Harmony Modular Display: 12", W12", 15", W15.6", W18.5", W21.5"

- HMIDM Modular Display
 - 4:3 12"/15" single-touch resistive screen with front USB
 - 16:9 12"/15"/19"/22" multi-touch projected capacitive screen, 7H hardness, anti-scratch
 - IP66, Nema 4X indoor front panel

Harmony iDisplay — Industrial monitors



Harmony iDisplay: W12", W15"

- HMIDID
 - 1x USB on front panel, 1x DVI-D video, 1x USB, 1x RS-232C
 - IP67/66 and Nema 4X front screen
 - Industrial certifications (Hazardous Location and Marine)

(1) EcoStruxure Operator Terminal Expert and EcoStruxure Machine SCADA Expert is not supported by Harmony HMIBSC.

(2) Mini PCIe cards not requiring Optional interface (no external connector): Cellular, Wifi, Saved RAM, etc. Mini PCIe cards requiring Optional interface: COM, USB, Audio, Video, Fieldbus, I/O, etc.

HMI software and services

EcoStruxure™ Operator Terminal Expert — Touchscreen configuration software



EcoStruxure Operator Terminal Expert

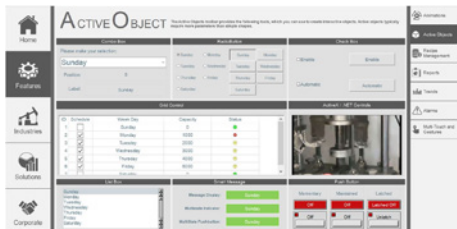


- Operate intuitively
 - Ability to go beyond the limitations of the physical screen size to improve productivity
- Reduce time to market
 - Efficient and intuitive engineering
 - For faster customization and modification
- Improve efficiency
 - High usability and image quality for the operator (experience design)

EcoStruxure Machine SCADA Expert — Lite SCADA for line management



EcoStruxure Machine SCADA Expert



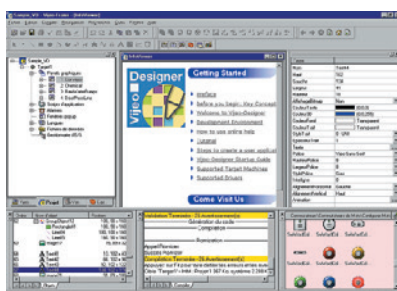
- Save time
 - Quick and easy to install directly on our iPCs
 - Save days of testing and commissioning thanks to a fully tested and validated bundle
 - Tailored information at a glance using BI-Dashboard template
- Save money
 - Get peace of mind and save time and resources with our single point of contact for HW/SW/OS support
 - Access SCADA level software, with all its benefits, at a competitive cost/features ratio
- Connectivity and data management
 - Includes 250+ native communication drivers
 - Monitor and control remotely your application with Mobile Access, using a tablet or smartphone

Note: EcoStruxure Machine SCADA Expert Runtime will be available as preinstalled version for Harmony HMIP6 in Q1 2021.

Vijeo Designer — Classic HMI configuration software



Vijeo Designer



- Multi-platform: from optimized panels to iPCs
- Multi-panel communication: automatic data sharing between up to 8 different panels
- Multi-language: 15 languages in runtime and 38 alphabets
- Multi-protocol: on COM and Ethernet ports
- Multi-access: local or remote display with WEB Gate, Vijeo Designer Air and Vijeo Designer Air Plus
- Multi-media: video/sound record/replay capability

HMI software and services

EcoStruxure™ Secure Connect Advisor



EcoStruxure Secure Connect Advisor

- Provide a secure connection between remote display units on the work site (via SiteManager Embedded) and computers or smart devices in the office (via LinkManager) over a secure central server (GateManager).
- With EcoStruxure Secure Connect Advisor, maintenance personnel can access Schneider Electric software and update it remotely and securely via the HMI, PLC, and other connected devices as if they were on site.
- Troubleshooting and repairs can be performed remotely upon request.



Vijeo Design'Air and Vijeo Design'Air Plus mobility app



Vijeo Design'Air

- Vijeo Design'Air
 - Connect to your HMI remotely for an interactive mirror-view of your application
 - HMI auto-detect: scans and detects available HMI terminals on a nearby network
 - Remote monitoring: connects tablets and smartphones to HMI terminals, and allows remote viewing and controlling of HMI projects at runtime
 - Smartphone-like enhanced data display brought to the automation industry
 - Available in iOS AppStore and Google Play



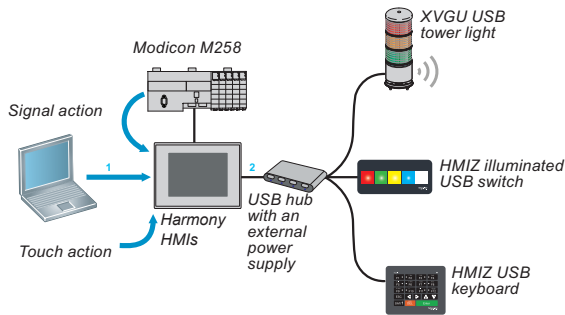
Vijeo Design'Air Plus

- Vijeo Design'Air Plus
 - Get a fully operable view of your application from wherever you are
 - HMI project design: enables an HMI designer to create a tablet/smartphone project of the automation process using enhanced drawing tools
 - Remote access and control: allows control of automation processes and provides the ability to view and monitor data, change variable values, and monitor and acknowledge alarms
 - Smartphone-like enhanced data display brought to the automation industry
 - Available in iOS AppStore and Google Play



Vijeo Designer configuration

Harmony USB accessories



The functionality of the Harmony HMI can be extended with USB connected accessories. These innovative accessories can be easily installed and operated with HMI terminals. Their configuration is part of the overall HMI project and is stored in the terminal memory. The illuminated switch panel and the keyboard panel are mounted via a 22 mm/0.866 in. hole, simplifying installation.

Harmony HMIZRA

Supporting Software



- Illuminated switch
 - 5 tactile switches with configurable LED (red/green/yellow/white/blue)
 - Dynamic light changes and flashing to display the machine status
 - Easy mounting with one-cable connection and 22.5 mm/0.885 in. hole



Vijeo Designer

Harmony HMIZKB

Supporting Software



- USB keyboard
 - Keyboard with 12 tactile function keys
 - Support for alphanumerical and numerical input
 - Easy mounting with one-cable connection and 22.5 mm/0.885 in. hole



Vijeo Designer

Harmony® XVGU

Supporting Software



- Tower light
 - USB powered tower light with 3 LED light elements
 - Multicolor with red, orange, green, or blue
 - 85 dB buzzing with 4 configurable sound patterns
 - Easy mounting with single USB cable



Vijeo Designer



EcoStruxure Machine SCADA Expert

Quick Product Selection Tables

Basic HMI panels for simple machines

Platform	Harmony ST6 -Basic HMI-			Harmony STO7 -Compact color HMI-	Harmony GTO -Standard HMI-	Harmony STU -Cut-out free HMI-	Harmony SCU -HMI controller -
	HMIST6	HMISTM6	HMISTW6				
Modular	-	Yes	-	-	-	Yes	Yes
Screen size	W4", W7", W10", W12", W15"	W4", W7"	W4", W7", W10", W12", W15"	4.3"	3.5", 5.7", W7", 7.5", 10.4", 12.1"	3.5", 5.7"	3.5", 5.7"
Screen resolution	480 x 272/ 800 x 800/ 1024 x 600/ 1280 x 800/ 1366 x 768	480 x 272/ 800 x 480	480 x 272/ 800 x 800/ 1024 x 600/ 1280 x 800/ 1366 x 768	480 x 272	320 x 240/ 640 x 480/ 800 x 480/ 800 x 600	320 x 240	320 x 240
Application memory	128 MB		512 MB	26 MB	64 MB or 96 MB	32 MB	128 MB
Backup memory	512 KB		128 KB	128 KB	128 KB to 512 KB	64 KB	128 KB
Expansion memory	None			None	None or SD card	None	None
Mounting	Standard cut-out	22 mm/0.866 in. hole	Standard cut-out	Standard cut-out	Standard cut-out	22 mm/0.866 in. hole	22 mm/0.866 in. hole
Ethernet port	1 or 2 LAN port(s)			None or 1 LAN port	None or 1 LAN port	1 LAN port	1 LAN port
Serial line	None or RS-232C/485 (COM1) only or RS-232C (COM1) and RS-485 (COM2)		-	None or RS-232C or RS-232C/RS-485	RS-232C/485 (COM1) only or RS-232C (COM1) and RS-485 (COM2)	RS-232C/RS-485	RS-485/RS-232
Supply voltage	24 V $\overline{\sim}$			12...24 V $\overline{\sim}$	24 V $\overline{\sim}$	24 V $\overline{\sim}$	24 V $\overline{\sim}$
Operating temperature	0...50 °C/32...122 °F			0...50 °C/32...122 °F	0...50 °C/32...122 °F or 0...55 °C/32...131 °F	0...50 °C/32...122 °F	0...50 °C/32...122 °F
Software	EcoStruxure Operator Terminal Expert		HTML5 Browser (Graphic Primitives & Javascript)	EcoStruxure Operator Terminal Expert	Vijeo Designer	Vijeo Designer	EcoStruxure Machine Expert with Vijeo Designer

Advanced HMI panels for performance machines

Platform	Harmony GTU -High performance HMI-			Harmony GTUX -eXtreme outdoor HMI-	Harmony GK -Keyboard HMI-	Magelis XBTGH -Hand-held HMI-
	HMIG2U	HMIG3U	HMIG5U21(1), HMIG5U22(2)			
Modular	Yes			Yes	-	-
Screen size	W7", 10.4", W10", 12.1", W12", 15", W15", W19"			W7", W12", W15"	5.7", 10.4"	5.7"
Screen resolution	800 x 480/800 x 600/1024 x 768/1280 x 800			800 x 480/ 1280 x 800/ 1366 x 768	320 x 240/640 x 480	640 x 480
CPU	RISC, 600 MHz		x86, 1.33 GHz	-	-	-
Operating system	Real time OS		Windows 10	-	-	-
Application memory	256 MB		4 GB	256 MB	128 MB	32 MB
Backup memory	512 KB			512 KB	512 KB	512 KB
Expansion memory	SD card		SD card and CFAST card 32 GB	SD card	SD card	CFAST card
Ethernet port	2 LAN ports			2 LAN ports	1 LAN port	1 LAN port
Serial line	RS-232C (COM1), RS-485 (COM2)	RS-485 (COM1), RS-232C/RS-485/RS-422 (COM2)		RS-485 (COM1), RS-232C/RS-485 /RS-422 (COM2)	RS-232C (COM1), RS-485 (COM2)	RS-232C/RS-422/ RS-485 (COM1)
Supply voltage	12...24 V $\overline{\sim}$			12...24 V $\overline{\sim}$	24 V $\overline{\sim}$	24 V $\overline{\sim}$
Operating temperature	0...60 °C /32...140 °F			-30...65 °C/-22...149 °F or -30...70 °C/-22...158 °F or -20...60 °C/-4...140 °F	0...55 °C /32...131 °F	0...40 °C/32...104 °F
Software	Vijeo Designer	Vijeo Designer/ EcoStruxure Operator Terminal Expert	Vijeo Designer/ EcoStruxure Machine SCADA Expert	Vijeo Designer	Vijeo Designer	Vijeo Designer

(1) No HMI Runtime licenses are delivered. The EcoStruxure Machine SCADA Expert Runtime license has to be bought and only version 8.1 is supported, version 2020 will be supported in Q4 2020.

(2) Available in Q1 2021 with Vijeo Designer and EcoStruxure Operator Terminal Expert Runtime unlimited version preinstalled.

Harmony Industrial PCs and Edge Box for line management

Platform	Harmony P6 Industrial PCs	
	Advanced Modular Box	Standard Modular Box
Screen size	12", 15", W15", W19"	
Front protection (1)	IP66F, IP67F, Type 1, Type 4X (NEMA indoor use only), Type 13	
Certifications	All models: e, RCM, UL 61010-2-201, CSA C22.2 No. 61010-2-201, UL 121201 (2), CSA C22.2 No. 213 (2) DC models: IECEx/ATEX for use in Zone 2 gas/Zone 22 dust (2), DetNorske Veritas - Germanischer Lloyd (DNV-GL) (2)	
RAM	4 to 16 GB DDR4 RAM (not user-expandable) or 8 to 32 GB DDR4 RAM (not user-expandable)	8 to 32 GB DDR4 RAM (not user-expandable)
CPU processor	Intel Core™ i7-8665UE or Intel Core™ i5-8365UE or Intel Celeron® 4305UE	Intel Core™ i3-8145UE
OS	Windows® 10 IoT Enterprise 2019 LTSC (64-bit)	
Storage slots	1x M.2 SSD SATA, 2x 2.5-inch SATA (HDD/SSD)	1x M.2 SSD SATA, 1x 2.5-inch SATA (HDD/SSD)
Expansion slots	2x interfaces slots and optional extension module for 2x PCI/PCIe slots	1x interfaces slots
IIoT and approved Cybersecurity	Node-RED, TPM 2.0 module (preinstalled), McAfee Whitelisting	
Software	EcoStruxure Machine SCADA Expert (3), EcoStruxure Secure Connect Advisor, EcoStruxure Augmented Operator Advisor	

Platform	Harmony Edge Box		
	HMIBSC	HMIBMI	HMIBMO
Modular	–	Yes	
Screen size	–	12", W12", 15", W15", W19", W22"	
Front protection	–	IP66, NEMA 4X indoor, 7H hardness anti-scratch	
Certifications	CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)		
RAM	1 GB or 2 GB (not user-expandable)	4 GB (not user-expandable)	4 GB or 8 GB (not user-expandable)
CPU processor	Qualcomm ARM Cortex-A53 Quad-core (up to 1.2 GHz)	Intel Atom Apollo Lake E3930 Dual-core (1.8 GHz)	
OS	Linux Yocto	None or Windows 10 IoT Enterprise LTSC (64-bit) or Configured-To-Order offer	
Storage slots	8 GB or 64 GB eMMC (soldered)	64 GB or 128 GB eMMC (soldered)	None or 64 GB or 250 GB M.2 SSD
Expansion slots	1x full-size slot with optional interface, 1x M.2 slot (not for storage)	1x mini PCIe full slot with optional interface	1x mini PCIe full slot with or without optional interface
IIoT and approved Cybersecurity	Secure boot, password Node-RED preinstalled, TPM for Cybersecurity	IIoT system monitor with Node-RED and approved Cybersecurity (TPM hardware encryption, McAfee white-listing, etc.)	
Software	–	EcoStruxure Operator Terminal Expert/EcoStruxure Machine SCADA Expert/EcoStruxure Secure Connect Advisor	

Platform	Slim All-in-one Panel PC	
	HMIPSO	HMIEP
Screen size	W10"	W19"
Front protection	IP66, NEMA 4X indoor, 7H hardness anti-scratch	IP66 all over with VESA 100 mounting, NEMA 4X indoor, 7H hardness anti-scratch front panels
Certifications	CE, cULus, RCM, EAC, CCC, FCC (part 15 EMC Class A)	
RAM	4 GB	8 GB
CPU processor	Intel® Atom E3827 Dual-core (1.75 GHz)	Intel Core i3-4010U Dual-core 4 th generation (1.7 GHz)
OS	None or Windows 10 IoT Enterprise (64-bit Multi-language)	None, Windows 10 IoT Enterprise (64-bit Multi-language) or Configured-To-Order offer
Storage slots	None or 32 GB CFast or 128 GB SSD or 500 GB HDD	None or 128 GB SSD
Expansion slots	1 Mini PCIe (requires optional expansion)	1 Mini PCIe
IIoT and approved Cybersecurity	–	–
Software	EcoStruxure Operator Terminal Expert/EcoStruxure Machine SCADA Expert	

(1) On the front panel when properly installed in an enclosure and not using the front panel USB port.

(2) Available in H2 2021.

(3) EcoStruxure Machine SCADA Expert Runtime will be available as preinstalled version for Harmony HMIP6 in Q1 2021.

HMI software comparison table

Platform	EcoStruxure Operator Terminal Expert	EcoStruxure Machine SCADA Expert	Vijeo Designer
Modern/Stylish design	+++	++	+
Efficient operation	+++ (multi-screen, slide to scroll, stretch to zoom)	++	+
Easy screen creation	+++	++	++
Easy programming	++	++	+++
Multitouch gestures	++	+++	-
Security	++	+++	+
Mobile access	+ (Web API)	+++ (Web API)	++
Languages	+	+++	+++
IT/OT connectivity	++	+++	+
Data management	+	+++	+
Target equipment type	Simple/Compact Machine	Performance/Complex Machine Line Management	Simple/Compact Machine Performance/Complex Machine
Typical target application	Marine, Control Panel Builders, HVAC&R, Pumping, Packaging, Food & Beverages	Material handling, Packaging, Food & Beverages, Material working, SEMI/FPD, Automotive line	Marine, Control Panel Builders, HVAC&R, Pumping, Packaging, Food & Beverages, Oil & Gas, WWW
Optimum hardware	Harmony ST6/STO7	Harmony GTU (HMIG5U21, HMIG5U22), Harmony IPCs (1)	Harmony GTO/STU/SCU/GTU/GTUX/HMIGK, Magelis XBTGH

+++ Highly recommended

(1) EcoStruxure Machine SCADA Expert Runtime will be available as preinstalled version for Harmony HMIP6 in Q1 2021.

Harmony USB compatible accessories table

Harmony HMIs	USB accessories for HMI terminals		
	USB tower light	Illuminated USB switch	USB keyboard
	XVGU3S***	HMIZRA1	HMIZKB1
Harmony Panel PC	No	Yes	No
Harmony Box PC	No	Yes	No
HMIGK	Yes	Yes	No
HMIGTU	Yes	Yes	Yes
HMIGTO	Yes	Yes	Yes
HMISTU	No	No	Yes
HMISTO7	No	No	No
HMISCU	Yes	Yes	Yes

Life Is On



Learn more about our products
at www.schneider-electric.com/HMI

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Design: Schneider Electric
Photos: Schneider Electric

Schneider Electric Industries SAS

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