Human Machine Interfaces Product Line-up Guide

Harmony Panels and Industrial PCs



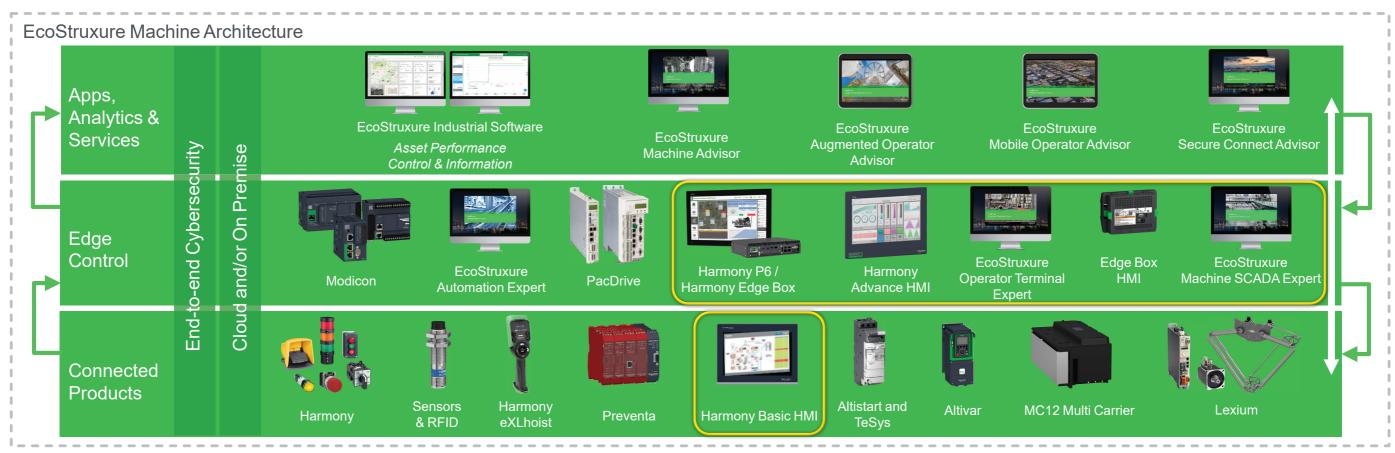
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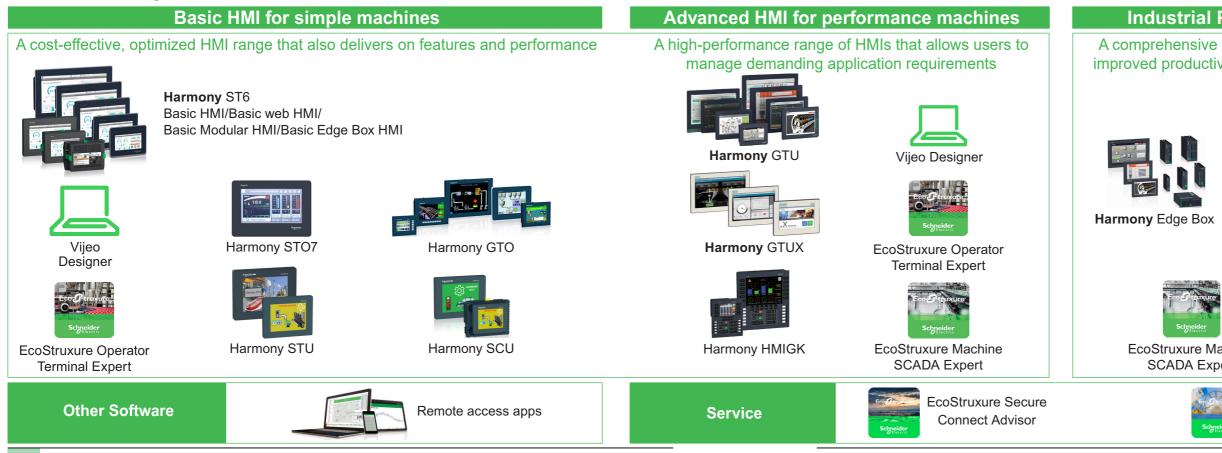
EcoStruxure[™] for Harmony HMI

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 HMI and iPC families



Industrial PC for line management

A comprehensive range of intuitive industrial PCs for improved productivity to enhance operator experience



Harmony FP6



Harmony P6

EcoStruxure Machine SCADA Expert



EcoStruxure Operator **Terminal Expert**

EcoStruxure Augmented **Operator Advisor**

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Product Panorama

Basic HMI panels for simple machines



Advanced HMI panels for performance machines



- Highly robust with operating temperatures up to 55 °C /131 °F, reducing maintenance problems and time

Harmony GK: 5.7", 10.4"

Harmony Industrial PCs and Edge Box for line management

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



Node-RED EcoStruxure Operator Terminal Expert



SCADA Expert



Harmony P6 Modular Box and Modular Display: 12", 15", W10", W12", W15", W19", W22"



How to select the Industrial PC and build a Plant Architecture Click to view the video

HMIP6 (1)

- 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

HMIDM6

- 4:3 12" and 15" (XGA) color LCD resistive analog multi-touch (2 points) screen with 1x USB 2.0 (Type A), and front USB cover
- 16:9 10" and 12" (WXGA)/15" (FWXGA)/19" and 21" (FHD) 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 (2), and CSA C22.2 No. 213 (2)
- All DC models are certified for IECEx/ATEX for use in Zone 2 gas/Zone 22 dust (2), DNV

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



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

Supporting Software

5

EcoStruxure Operator Terminal Expert



EcoStruxure Machine SCADA Expert

- HMIPSO
 - 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

(1) Available as Configured-to-order only and can be ordered using the online configurator.(2) Available in Q4 2022.



Harmony Industrial PCs and Edge Box for line management

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







EcoStruxure Machine

SCADA Expert



HMIBSC



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HMIBSC (1)

Qualcomm ARM Cortex-A53 Quad-core up to 1.2 GHz

Node-RED

1 or 2 GB RAM, 2x Ethernet, 1x COM RS-232/432/485, 2x USB, 1x HDMI (for configuration only)

EcoStruxure Operator

Terminal Expert

- 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 (3) 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 PCle (2)
- Runs Node-RED to wired devices on the Industrial Internet of Things

Harmony Modular Display — Display for Edge Box family





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

Harmony FP6 — Industrial Flat Panel Monitors





Harmony HMIFP6 : 12", 15", W10", W12", W15", W19", W22'

HMIFP6

- 4:3 12" and 15" (XGA) color LCD resistive analog multi-touch (2 points) screen with 1x USB 2.0 (Type A), and front USB cover
- 16:9 10" and 12" (WXGA)/15" (FWXGA)/19" and 22" (FHD) 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 C€, RCM, UL 61010-2-201, CSA C22.2 No. 61010-2-201, UL121201 (3) (4), and CSA C22.2 No. 213 (3) (4), IECEx/ATEX for use in Zone 2 gas/Zone 22 dust (3) (4)
- (1) EcoStruxure Operator Terminal Expert and EcoStruxure Machine SCADA Expert is not supported by
- Ecosituzare operator remaining period interface (no external connector): Cellular, Wifi, Saved RAM, etc. Mini PCIe cards not requiring Optional interface: COM, USB, Audio, Video, Fieldbus, I/O, etc.

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

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
- Convert already created Landscape screens into Portrait screens for vertical scrolling and for screens that require many operation switches
- 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)
 - With Web Viewer feature, watch/operate the HMI screen remotely with mirroring function

EcoStruxure Machine SCADA Expert — Lite SCADA for line management



EcoStruxure Machine SCADA Expert

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Save time

- Quick and easy to install directly on our iPCs
- Save days of testing and commissioning thanks to a fully tested and validated association
- 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 Hardware/Software/Operating System 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: For Harmony HMIP6, EcoStruxure Machine SCADA Expert Runtime preinstalled version is available as an option in the online configurator.

Vijeo Designer — Classic HMI configuration software



Vijeo Designer



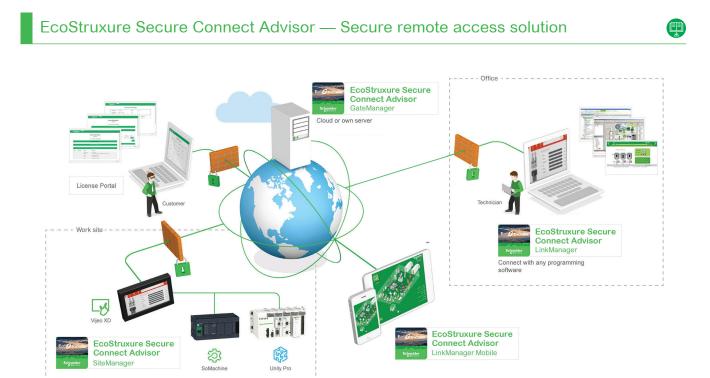
- Multi-platform: from optimized panels to iPCs
- Multi-panel communication: automatic data sharing between up to 8 different panels
- Multi-language: 15 languages in runtime and 38 alphabets
- Multi-protocol: on COM and Ethernet ports
- Multi-access: local or remote display with WEB Gate, Vijeo Designer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

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HMI software and services



- Provides 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.

EcoStruxure Augmented Operator Advisor — Augmented reality for instant diagnosis and contactless maintenance



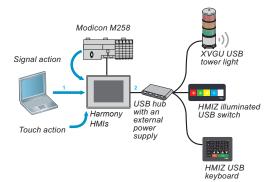


EcoStruxure Augmented Operator Advisor

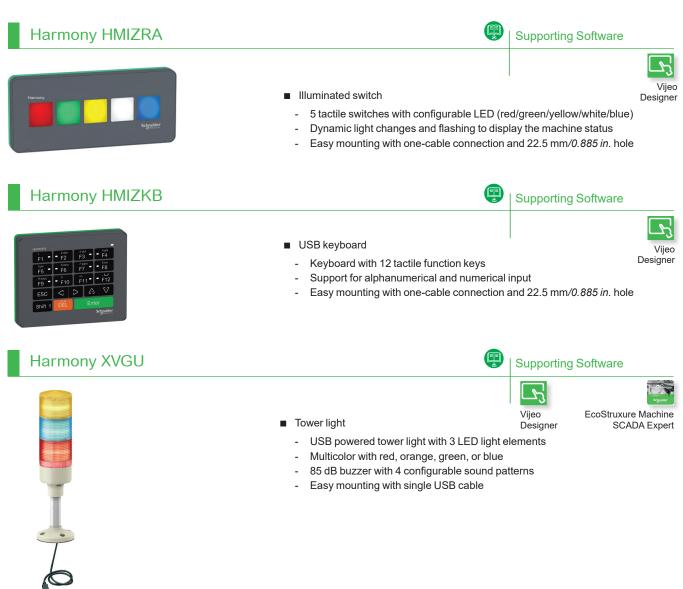


- Reduces downtime by opening electrical cabinet doors virtually and diagnosing the device status instantly in real-time without the need for lockout or electrical qualifications.
- Speeds up the efficiency of operations and maintenance by offering immediate access to relevant information in the field like real-time data, machine history, user manuals, instructions, diagrams, etc.
- Enables technicians to locate the right equipment and guides them step-by-step to complete the procedures.

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.



Quick Product Selection Tables

Basic HMI panels for simple machines

Platform		Harı	mony ST6		Harmony STO7 -Compact HMI-	Harmony GTO -Standard HMI-	Harmony STU -Cut-out free HMI-	Harmony SCU
	Basic HMI ST6	Basic Web HMI STW6	Basic Modular STM6	Basic Edge Box HMI				-HMI controller -
Modular	-	-	Yes	-	-	-	Yes	Yes
Screen size	W4", W7", W10", W12", W15"	W4", W7", W10", W12", W15"	No Face or W4", W7"	No Face	4.3"	3.5", 5.7", W7", 7", 10", 12"	3.5", 5.7"	3.5", 5.7"
Screen resolution	480 x 272 / 800 x 480 / 1024 x 600 / 1280 x 800 / 1366 x 768	480 x 272 / 800 x 480 / 1024 x 600 / 1280 x 800 / 1366 x 768	480 x 272 / 800 x 480	-	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	128 MB		26 MB	64 MB/128 MB or 96 MB/128 MB	32 MB	128 MB
Backup memory	512 KB	128 KB	512 KB		128 KB	128 KB to 512 KB	64 KB	128 KB
Ethernet port	1 or 2 LAN por	t(s)	2 LAN port(s)		None or 1 LAN port	None or 1 LAN port	1 LAN port	1 LAN port
Serial line	RS-232C/485 (COM1) only or RS-232C (COM1) and RS-485 (COM2)	None	RS-232C/485 (COM1)	RS-232C/485 (COM1)	None or RS-232C or RS-232C/RS-485	RS-232C/485 (COM1) only or RS-232C (COM1) RS-485 (COM2)	RS-232C/RS-485	RS485/RS232
Operating temperature	050 °C/321	122 °F	050 °C/32122 °F or 060 °C/ 32140 °F	060 °C/ 32140 °F	050 °C/ 32122 °F	050 °C/32122 °F or 055 °C/32131 °F	32122 °F	050 °C/ 32122 °F
Software	EcoStruxure Operator Terminal Expert	HTML pre-installed browser	EcoStruxure Operator Ter- minal Expert	EcoStruxure Machine SCADA Expert	EcoStruxure Opera- tor Terminal Expert	Vijeo Designer	Vijeo Designer	EcoStruxure Machine Expert

Advanced HMI panels for performance machines

Platform	Harmony GTU -High performance			Harmony GTUX -eXtreme outdoor HMI-	Harmony GK -Keyboard HMI-
	HMIG2U	HMIG3U	HMIG5U21, HMIG5U22		
Modular	Yes			Yes	-
Screen size	W7", 10.4", W10",	12.1", W12", 15", W1	15", W19"	W7", W12", W15"	5.7", 10.4"
Screen resolution	800 × 480/800 × 60	00/1024 × 768/1280	× 800	800 × 480/1280 × 800/ 1366 × 768	320 × 240/640 × 480
CPU	RISC, 600 MHz		x86, 1.33 GHz	-	-
Operating system	Real time OS		Windows 10	Real time OS	Real time OS
Application memory	256 MB		4 GB	256 MB	128 MB
Backup memory	512 KB			512 KB	512 KB
Expansion memory	SD card		SD card and CFast card 32 GB	SD card	SD card
Ethernet port	2 LAN ports			2 LAN ports	1 LAN port
Serial line	RS-232C (COM1), RS-485 (COM2)	RS-485 (COM1), RS-232C/RS-485/F	RS-422 (COM2)	RS-485 (COM1), RS-232C/RS-485/RS-422 (COM2)	RS-232C (COM1), RS-485 (COM2)
Supply voltage	1224 V			1224 V	24 V≂
Operating temperature	060 °C /32140 °F			-3065 °C/-22149 °F or -3070 °C/-22158 °F or -2060 °C/-4140 °F	055 °C /32131 °F
Software	Vijeo Designer	Vijeo Designer / EcoStruxure Operator Terminal Expert	Vijeo Designer / EcoStruxure Operator Terminal Expert	Vijeo Designer	Vijeo Designer

Industrial PC for line management

Platform	Harmony P6 <i>(1)</i>					
	Advanced Modular Box	Standard Modular Box				
Optional Modular Displays - Screen size	12", 15", W10", W12", W15", W19", W22"					
Front protection (2)	IP66F, IP67F, Type 1, Type 4X (NEMA indoor use only), Type 13 UL 50/50E					
Certifications	All models: C€, RCM, UL 61010-2-201, CSA C22.2 No. 61010-2-201, UL 121201 (3), CSA C22.2 No. 213 (3) DC models: IECEx/ATEX for use in Zone 2 gas/Zone 22 dust (3), DNV					
RAM	4 to 16 GB DDR4 RAM or 8 to 32 GB DDR4 RAM	8 to 32 GB DDR4 RAM				
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				
lloT and approved Cybersecurity	Node-RED, TPM 2.0 module (preinstalled), McAfee Whitelisting					
Software	EcoStruxure Operator Terminal Expert, EcoStruxure Machine SCADA Expert EcoStruxure Augmented Operator Advisor	EcoStruxure Operator Terminal Expert, EcoStruxure Machine SCADA Expert (4), EcoStruxure Secure Connect Advisor, EcoStruxure Augmented Operator Advisor				

Platform	Harmony Edge Box					
	HMIBSC	HMIBMI	НМІВМО			
Modular	-	Yes				
Optional Modular Displays - Screen size	-	12", W12", 15", W15", W19", W22"				
Front protection	-	IP66, NEMA 4X indoor, 7H hardness anti-scratch				
Certifications	C€, 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	sor Qualcomm ARM Cortex-A53 Quad-core Intel Atom Apollo Lake E3930 Dual-core (1.8 GHz) (up to 1.2 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			
lloT 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, Eco EcoStruxure Secure Connect Advisor	Struxure Machine SCADA Expert,			

Platform	Slim All-in-one Panel PC				
	HMIPSO	HMIPEP			
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	C€, 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 4th 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 PCle			
lloT and approved Cybersecurity	-	-			
Software	EcoStruxure Operator Terminal Expert, EcoStruxure Machine SCADA Expert				

(1) Available as Configured-to-order only and can be ordered using the online configurator.
(2) On the front panel when properly installed in an enclosure and not using the front panel USB port.
(3) Available in Q4 2022.

(4) For Harmony HMIP6, EcoStruxure Machine SCADA Expert Runtime preinstalled version is available as an option in the online configurator.

HMI software comparison table

Platform	EcoStruxure Operator Terminal Expert	EcoStruxure Machine SCADA Expert	Vijeo Designer
Modern/Stylish design	+++	++	+
Efficient operation	+++ (multi-screen, scrollable screen, custom zoom view)	++	+
Easy screen creation	+++	++	++
Easy programming	++	++	+++
Multitouch gestures	++	+++	-
Security	++	+++	+
Mobile access	+++ (Web Viewer/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/GTU (HMIG5U22 & HMIG3U), Harmony iPCs	Harmony iPCs (1), Edge Box HMI	Harmony GTO/STU/SCU/GTU/GTUX/ GK

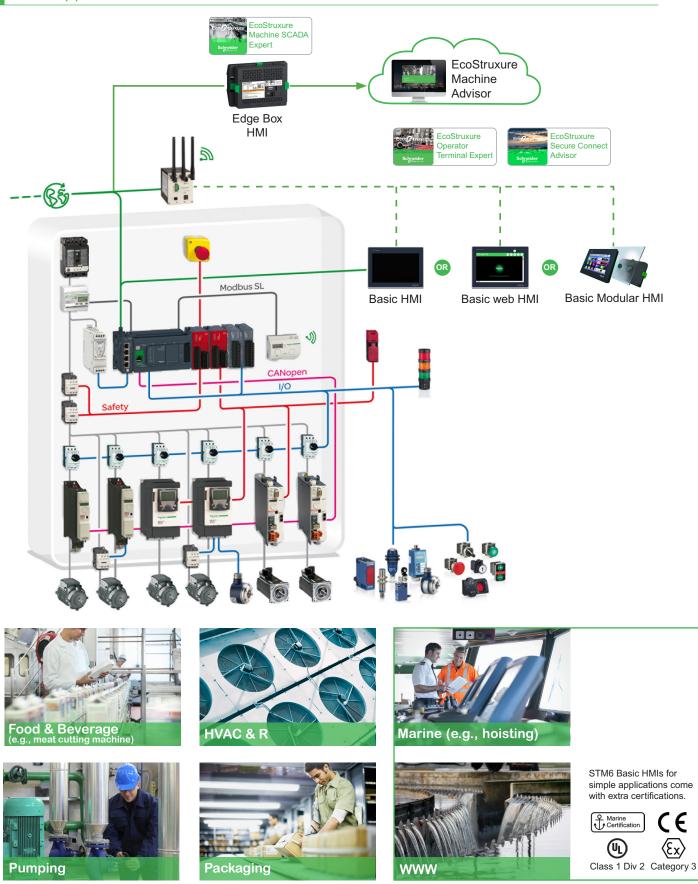
+++ Highly recommended
(1) For Harmony HMIP6, EcoStruxure Machine SCADA Expert Runtime preinstalled version is available as an option in the online configurator.

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		
HMIGTUX	No	No	No		
HMIGTO	Yes	Yes	Yes		
HMIST6	No	No	No		
HMISTU	No	No	Yes		
HMISTO7	No	No	No		
HMISCU	Yes	Yes	Yes		

Examples of Use cases

Harmony ST6 Basic HMI for simple machines: Flexible architectures for the same application

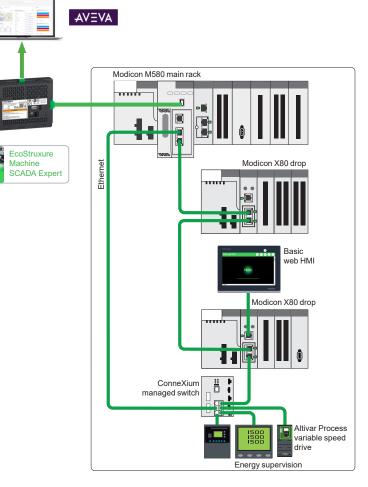


Examples of Use cases

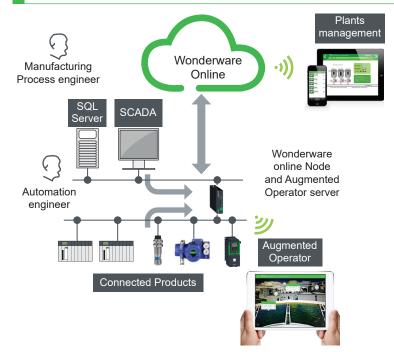
Harmony ST6 Basic HMI in the End User Plant



Harmony STW6 and Edge Box HMI are used as secondary HMIs for the maintenance and diagnostic tools in the EcoStruxure plant architecture.



Harmony iPC powered by an IIoT application with Node-RED in process and manufacturing optimization



Energy, production, and asset management across plants and locations

- Process improvement insights and actionable data:
 - Parallel wiring model, not interfering within the control system
 - Wonderware Online connector to the Cloud
 - EcoStruxure Augmented Operator Advisor
- Cybersecured industrial automation system, compliant to ISA/IEC 62443
- For most demanding environments, certified for hazardous locations





Learn more about our products at www.se.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.

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