RXi – Web HMI Panel
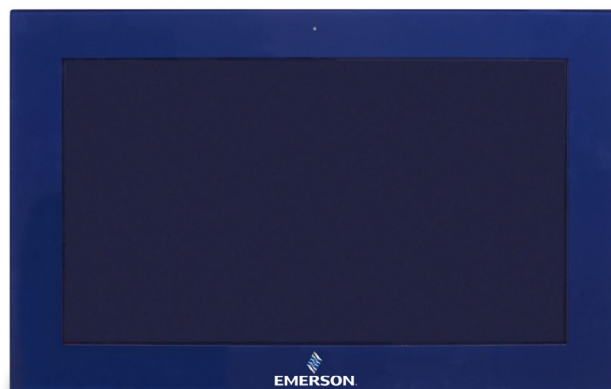## The Definitive Industrial Display Experience

To succeed in an outcome-driven world, businesses must operate faster and leaner, while being increasingly connected with both local and global data. At Emerson, we've reimagined automation architecture to help you thrive in today's demanding business environment. This architecture ensures that relevant information is readily available to operators, so they can make the best decisions in real time. Highlighting this reimagined architecture, Emerson has gone back to the drawing board to create the "Definitive Industrial Display Experience". The result is the RXi – Web HMI Panel modular display portfolio with the web hosted HMI application in mind to maximize flexibility, performance, and durability.

Modularity and Flexibility

The RXi – Web HMI Panel portfolio ranges from 7" to 24" screens in a widescreen format with 7" to 15" available with both indoor and outdoor sunlight readable screens. The modular nature of the unit offers a substantial amount of flexibility in configuring your RXi – Web HMI Panel. For instance, you can easily swap an indoor screen for an outdoor screen, change screen sizes, or simply replace a damaged screen, while utilizing the same computing unit.

Enhanced Connectivity

The RXi – Web HMI Panel was developed to provide users with cost effective easy access to web hosted HMI applications while maintaining the capabilities that comes with an industrialized panel. Since the majority of the computing is expected to be done on the server side, the RXi – Web HMI Panel comes with a minimalist computing module housing a Dual Core 1.0 GHz iMX6 Freescale processor, 2GB of DDR3 RAM and 4GB of Flash memory. The standard Linux Yocto OS, QT Webkit, and Chromium and Firefox Web browsers ensure that the RXi – Web HMI Panel is ready to connect you to your web hosted HMI of choice. The RXi – Web HMI Panel provides vivid graphical capabilities and quick response times to ensure access to relevant information, enable smarter decision, and lower total cost of ownership.

Display Technology: Designed to Maximize UX

The RXi – Web HMI Panel takes industrial displays into today's connected world, by combining design, durability, and power in an ultra-slim package perfect for the factory floor. A sleek and powerful user experience connects people and machines with the latest in touchscreen technology and widescreen displays. The projected capacitive, high resolution, multitouch screens can be used while wearing personal protective equipment and are as sensitive as the latest smartphone. The outdoor rated Sunlight Readable screens provide brightness ratings nearly double that of the brightest smart devices. The optically bonded screens feature UV protection which vastly reduces reflections and glare, providing operators with vivid, clear images for more complete and enhanced process visualization.

Anytime, Anywhere: A Range of Applications

With the highest of environmental ratings, the RXi – Web HMI Panel operates effectively in temperatures as high as 65°C and as low as -20°C. Indoors or outdoors, the RXi – Web HMI Panel portfolio meets the most rigorous of certifications with IP66 rated screens that protect against dust, moisture, and direct water jets. The RXi – Web HMI Panel provides you with a solution that is designed to go where you need it to.

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Specifications

Size (inch)	7"	10"	12"	15"	19"	24"
Display — Resolution	1024 x 600 WSVGA	1280 x 800 WXGA		1920 x 1080 Full HD		
Format†	Widescreen (16:10)			Widescreen (16:9)		
Orientation	Landscape					
Reading Angle (°)	150 (H) / 145 (V)	170 (H) / 170 (V)	176 (H) / 176 (V)	170 (H) / 170 (V)	178 (H) / 178 (V)	
Display Off-Color	Black					
Contrast	800:1		1000:1	800:1	1000:1	5000:1
Brightness (cd/m2)	500 (1000 with Outdoor SLR Screen)		400 (1000 with Outdoor SLR Screen)	450 (1000 with Outdoor SLR Screen)	350	300
MTBF Backlighting	50 000 h (at 25°C)					
Backlight	LED, Dimmable via Software					
Processor i.MX 6DualLite — Processor	Freescale i.MX 6DualLite					
# of cores/TDP	2 core/2.5W					
CPU frequency	1.0Ghz					
Memory — Capacity	2GB DDR3L					
Storage — Internal	4GB eMMC NAND Flash Memory					
Watchdog Timer — Setup	Setup by software					
Operating Control — Method	Touch					
Touchscreen — Technology	Projected Capacitive Touch (PCT/PCAP)					
Touch Sensor	Multi-touch (Ten-Point)					
Interfaces — Port 1	1 x 10/100/1000 Base T Ethernet RJ45					
Port 2	1 x RS-232/422/485 COM Port (DB-9 connector)					
Port 3	1 x USB 2.0 (Type-A) 1 x USB OTG (micro USB)					
Status Indicators — Front Bezel Tri-color LED	Amber/Green/Red					
On-board Buzzer	Yes (85dB sound level with 80mA mean current)					
Power-Supply — Voltage [V]	+24VDC ±20% (19.2 V to 28.8 V, 3-Pin Connector)					
Protection-Class — Front-Side	IP66 (When Installed to a Wall/Panel)					
Back-Side	IP20					
Operating System — OS	Linux kernel 4.1.15:Yocto					
Framework	Qt 5.6.2					
Software Tools — Tool 1	Qt WebKit / Web Browser					
Tool 2	HTML5 Capability					
Secure & Trusted Boot — Item 1	CAAM					
Design — Housing	Aluminum Die Casting (Front)					
Construction Type	Modular (Detachable Modules; Computer, Monitor, Touch Display, DIO)					
Cooling	Natural Convection (Fanless Passive Cooling)					

† For opportunities regarding traditional 4:3 aspect ratio screens, please contact your local Emerson representative.

Ordering Information

Complete Units

Part Number	Description
IC757CSW07WHMI	7" RXi - Web HMI Panel, Widescreen
IC757CSW10WHMI	10" RXi - Web HMI Panel, Widescreen
IC757CSW12WHMI	12" RXi - Web HMI Panel, Widescreen
IC757CSW15WHMI	15" RXi - Web HMI Panel, Widescreen
IC757CSW19WHMI	19" RXi - Web HMI Panel, Widescreen
IC757CSW24WHMI	24" RXi - Web HMI Panel, Widescreen
IC757COW07WHMI	7" RXi - Web HMI Panel, Outdoor SLR Widescreen
IC757COW10WHMI	10" RXi - Web HMI Panel, Outdoor SLR Widescreen
IC757COW12WHMI	12" RXi - Web HMI Panel, Outdoor SLR Widescreen
IC757COW15WHMI	15" RXi - Web HMI Panel, Outdoor SLR Widescreen

Backing Modules

Part Number	Description
IC757WEBHMIS	RXi - Web HMI Panel box for 7" & 10"
IC757WEBHMIL	RXi - Web HMI Panel box for 12" through 24"

Screens

Part Number	Description
IC758CSW07SCREEN	7" RXi / QuickPanel-XP Screen Only, Widescreen, Indoor, Emerson Bezel
IC758COW07SCREENSLR	7" RXi / QuickPanel-XP Screen Only, Widescreen, Outdoor SLR, Emerson Bezel
IC758CSW10SCREEN	10" RXi / QuickPanel-XP Screen Only, Widescreen, Indoor, Emerson Bezel
IC758COW10SCREENSLR	10" RXi / QuickPanel-XP Screen Only, Widescreen, Outdoor SLR, Emerson Bezel
IC758CSW12SCREEN	12" RXi / QuickPanel-XP Screen Only, Widescreen, Indoor, Emerson Bezel
IC758COW12SCREENSLR	12" RXi / QuickPanel-XP Screen Only, Widescreen, Outdoor SLR, Emerson Bezel
IC758CSW15SCREEN	15" RXi / QuickPanel-XP Screen Only, Widescreen, Indoor, Emerson Bezel
IC758COW15SCREENSLR	15" RXi / QuickPanel-XP Screen Only, Widescreen, Outdoor SLR, Emerson Bezel