

eXT2 SERIES



12-Inch eXT2 HMI

The 12" eXT2 Series Xpanel HMI combines a high-resolution display, faster processing power, and a slim, durable design tailored for industrial applications. Built for demanding environments, it offers robust performance and reliability.

Resistive

Standard:

CM-eXT2-12W-R-DF

High-Brightness:

CM-eXT2-12W-RH-DF

Capacitive

Standard:

CM-eXT2-12W-C-DF

High-Brightness:

CM-eXT2-12W-CH-DF

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Product Highlights

- Wide operating temperature (-20 - +70 °C)
- High resolution, wide-screen display
- Quad-core high-speed processor
- 2GB of RAM; 8GB of Storage
- Slim profile & light weight
- Resistive and capacitive touch screen options
- 1 USB-C port, 2 serial ports, dual Ethernet ports, 1 line-out audio port, and 1 microSD card slot
- High-brightness option with 99.9% UV protection
- Canvas software
- VNC Compatibility
- FDA 21 CFR Part 11 Compliance
- Embedded SQLite Database
- Email and text notifications

Supported Drivers

- **Client Device (Ethernet):** EtherNet/IP (Allen-Bradley), EtherNet/IP (ODVA), Siemens S7, Mitsubishi MELSEC, Modbus TCP, OPC UA Client, Omron FINS, Proface GP, Fatek FBs, LSIS FEnet, CIMON PLC, ATIVA BACnet/IP, Beckhoff ADS/AMS, CODESYS V3, DNP3, Keyence Host Link
- **Client Device (Serial):** Allen-Bradley DF-1, Mitsubishi MELSEC, Modbus RTU, LSIS Cnet, Omron HostLink, Panasonic FP7, Yokogawa FA-M3, CIMON PLC, ATIVA, DNP3, Hallim Loader, Keyence Host Link, Koyo DirectNET, User Protocol
- **Server Device (Ethernet):** EtherNet/IP Server, MQTT JSON Publisher, Modbus TCP, OPC UA, Sparkplug Edge Node
- **Server Device (Serial):** Modbus RTU



Touch Panel		5-Wire Resistive		10-Point Capacitive	
Type		Standard	High-Brightness	Standard	High-Brightness
Part Number (CM-eXT2-...)		12W-R-DF	12W-RH-DF	12W-C-DF	12W-CH-DF
Enclosure	Front	Aluminum			
	Rear	Aluminum			
LCD Size		12.1 inch Wide TFT Color			
Colors		16.7M			
Resolution		1280 x 800 WXGA (16:10)			
Effective Display Area		261.12 x 163.2 mm			
PPI		125			
Backlight		LED			
Luminance		600 cd/m ²	1,000 cd/m ²	600 cd/m ²	1,000 cd/m ²
UV Protective Coating		-	99.9% UV Protection	-	99.9% UV Protection
Contrast Ratio		1000:1			
Backlight Life		50,000 Hours			
Touch Panel Accuracy		Active Area Width (X) ±2%, Height (Y) ±2%			
Display Orientation		Landscape (Standard, 180°), Portrait (90°, 270°)			
Memory		2 GB LPDDR4			
Storage		8 GB eMMC			
SD Card		1 x MicroSD card slot			
COM 1		RS-422/485			
COM 2		RS-232C			
Ethernet		2 x 10/100/1000 ports			
USB Host		1 x Type A			
Tool Port		1 x USB-C			
Audio		1 x Line-out port			
Rated Voltage		24 VDC, Class 2			
Inrush Current		30 A maximum			
Power Consumption		21.2 W (Max: 22.7 W)	21.6 W (Max: 23W)	21.2 W (Max: 22.7 W)	21.6 W (Max: 23W)
Operating System		Embedded Linux			
Project Memory		250 MB			
User Memory		4 GB			
Real-Time Clock		Real-time clock built into panel, backed up for 10 years at 25°C			
Acknowledgment Sound		Electronic buzzer			
Agency Approvals	UL	UL61010-1 / UL61010-2-201 (E231117)			
	CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)			
	FCC	The 47 CFR, Part2, Part15 and Part 18 Of FCC Requirement			
	KC	Registration of Broadcasting and Communication Equipments			
	Protection Class	IP66 / IP68 / IP69K (front), UL Type 4X, 12, NEMA Type 4X, 12			
	Hazardous Rating	-	UL C1D2	-	UL C1D2

Environmental

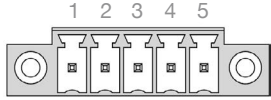
Type	Standard	High-Brightness
Operating Temperature	-20 – +70°C (-4 – +158°F)	
Storage Temperature	-25 – +75°C (-13 – +167°F)	
Operating Humidity	10–90% RH (below 29°C, not condensed)	
Storage Humidity	10–90% RH (below 39°C, not condensed)	

Pin Assignments

COM1: RS-422/485

PIN	Name	Description
1	RDB	Receive Data B
2	RDA	Receive Data A
3	GND	Ground
4	SDB	Send Data B
5	SDA	Send Data A

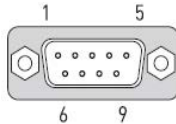
Connector



COM2: RS-232C

PIN	Name	Description
1	-	-
2	RD	Receive Data
3	TD	Transmit Data
4	-	-
5	SG	Signal Ground
6	-	-
7	RTS	Request to Send
8	CTS	Clear to Send
9	-	-

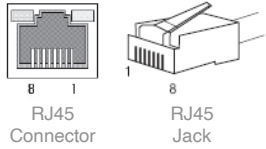
Connector



Ethernet

PIN	Description
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-

Connector



Accessories

Quantity	Description
10	Fastener
1	5-Pin Connector (RS-422/485)
1	Power Terminal Block
1	User Manual

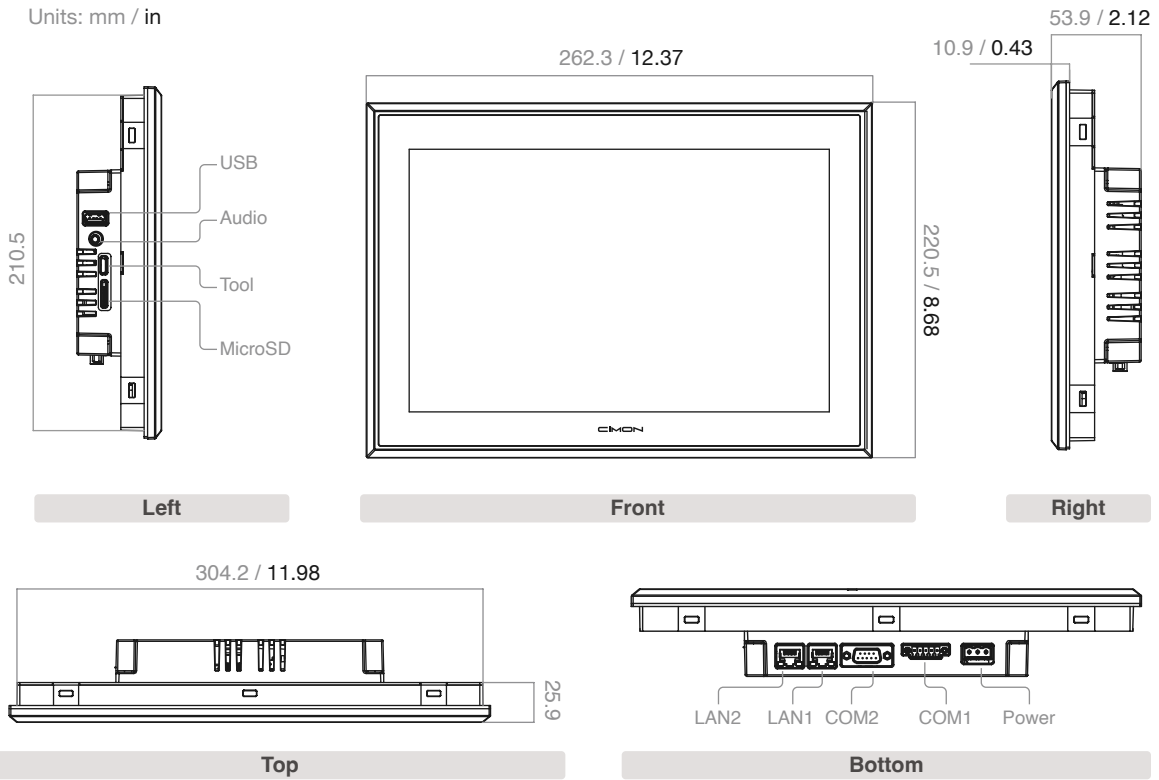
Physical

Type	Standard	High-Brightness
Dimensions	314.3 x 220.5 x 53.9 mm (12.37 x 8.68 x 2.12 in)	
Panel Cut	305 x 212 mm (12 x 8.35 in)	
Weight	2.4 kg (5.29 lbs)	
VESA (W x H)	75 mm x 75 mm (2.95 x 2.95 in)	

Spec Drawings

All eXT2-12 models

Units: mm / in



Installation

