

# eXT2 SERIES



## 7-Inch eXT2 HMI

The 7" eXT2 Series Xpanel HMI delivers robust performance in a compact design, certified for demanding industrial environments. With enhanced processing power, high-resolution visuals, and a sleek, lightweight profile, it's built to meet rigorous standards for both functionality and durability. The Advanced (DF) model further expands its versatility, offering enhanced connectivity and resilience for extreme conditions.

**Base:** CM-eXT2-07-R-DE

**Advanced:** CM-eXT2-07-R-DF

### 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 touch screen
- 1 USB-C port, 2 serial ports, dual Ethernet ports, 1 line-out audio port, and 1 microSD card slot
- High brightness of 1000 nits
- Canvas software
- VNC Compatibility
- FDA 21 CFR Part 11 Compliance
- Embedded SQLite Database
- Email and text notifications

### Supported Protocols

- **Client Device (Ethernet):** Allen Bradley EtherNet/IP, ODVA EtherNet/IP, Siemens S7, Mitsubishi MELSEC, Modbus TCP, OPC UA, Omron FINS, Proface GPEthernet, Fatek FBs, LSIS FEnet, CIMON PLC
- **Client Device (Serial):** Allen Bradley DF-1, Mitsubishi MELSEC, Modbus RTU, LSIS Cnet, Omron HostLink, Panasonic FP7, Yokogawa FA M3, CIMON PLC
- **Server Device (Ethernet):** EtherNet/IP, Modbus TCP, MQTT JSON Publisher, OPC UA
- **Server Device (Serial):** Modbus RTU



Model		Base	Advanced
Part Number		CM-eXT2-07-R-DE	CM-eXT2-07-R-DF
Enclosure	Front	Plastic	
	Rear	Plastic	
LCD Size		7 inch Wide TFT Color	
Colors		16.7M	
Resolution		1024 x 600 WSVGA (128:75)	
Effective Display Area (W x H)		154.21 x 85.92 mm	
PPI		170	
Backlight		LED	
Luminance		1,000 cd/m <sup>2</sup>	
Contrast Ratio		1000:1	
Backlight Life		50,000 Hours	
Touch Panel		4 wire resistive	
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	1 x 10/100/1000 port	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		12 W (Max: 14 W)	
Operating System		Embedded Linux	
Project Memory		250 MB	
User Memory		4 GB	
Realtime Clock		Realtime 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 (Front)	IP66, NEMA Type 4X, 12	IP68, NEMA Type 4X, 12

Environmental

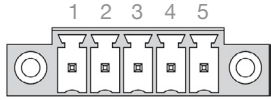
Model	Base	Advanced
Operating Temperature	0 – 65°C (32 – 149°F)	-20 – +70°C (-4 – +158°F)
Storage Temperature	-25 – +75°C (-13 – +167°F)	
Operating Humidity	10–90% RH (below 29°C, not condensed)	
Storage Humidity	10–90% RH (below 39°C, not condensed)	

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

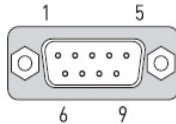
**Connector**



**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	-	-

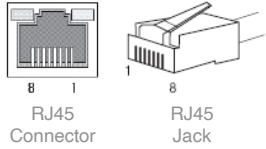
**Connector**



**Ethernet**

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

**Connector**



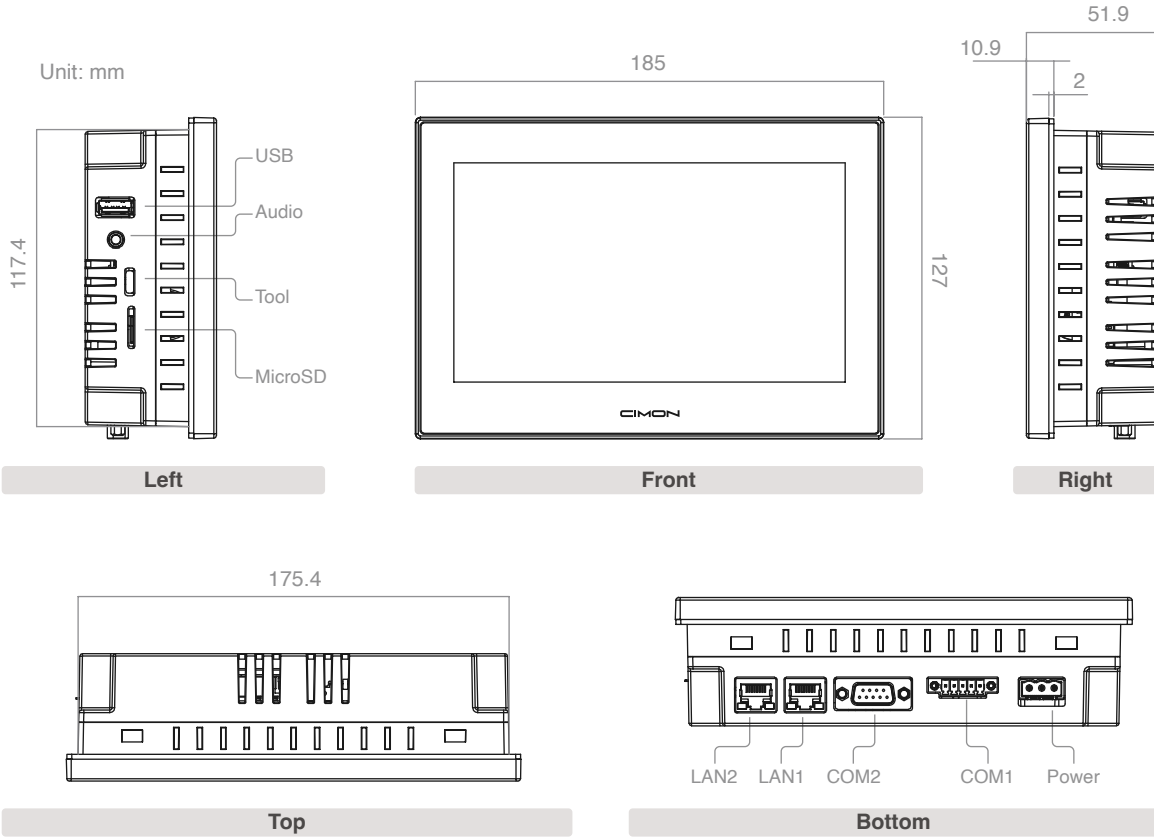
Physical

Model	Base	Advanced
Dimensions	185 x 127 x 51.9 mm (7.28 x 5.00 x 2.04 in)	
Panel Cut	177 x 119 mm (6.97 x 4.69 in)	
Weight	510 g (1.12 lbs)	
VESA (W x H)	N/A	

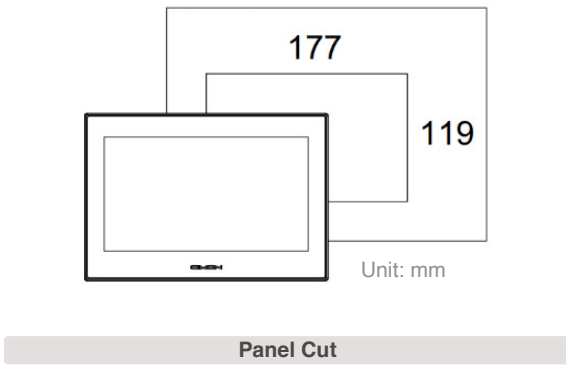
Accessories

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

Spec Drawings



Installation



Version: 26  
Updated: 03.13.2025

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All CIMON products are backed by a 3-year warranty and our best-in-class technical support team.