

# 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	-	One MicroSD card slot	
COM 1	RS-422/485		
COM 2	RS-232C		
Ethernet	One 10/100/1000 port	Two 10/100/1000 ports	
USB Host	One Type A		
Tool Port	One USB-C Device		
Audio	-	One 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	Front: IP68, NEMA Type: 4X, 12

Environmental

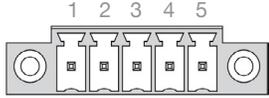
Model	Base	Advanced
Operating Temperature	0 – 65°C (32 –149°F)	-20 – +70°C (-4 – +158°F)
Storage Temperature	-25 – +75°C (-13 – +167°F)	
Operating Humidity	10–90% RH (below 29°C, not condensed)	
Storage Humidity	10–90% RH (below 39°C, not condensed)	

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

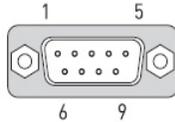
**Connector**



**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	-	-

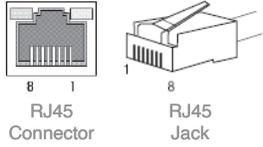
**Connector**



**Ethernet**

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

**Connector**



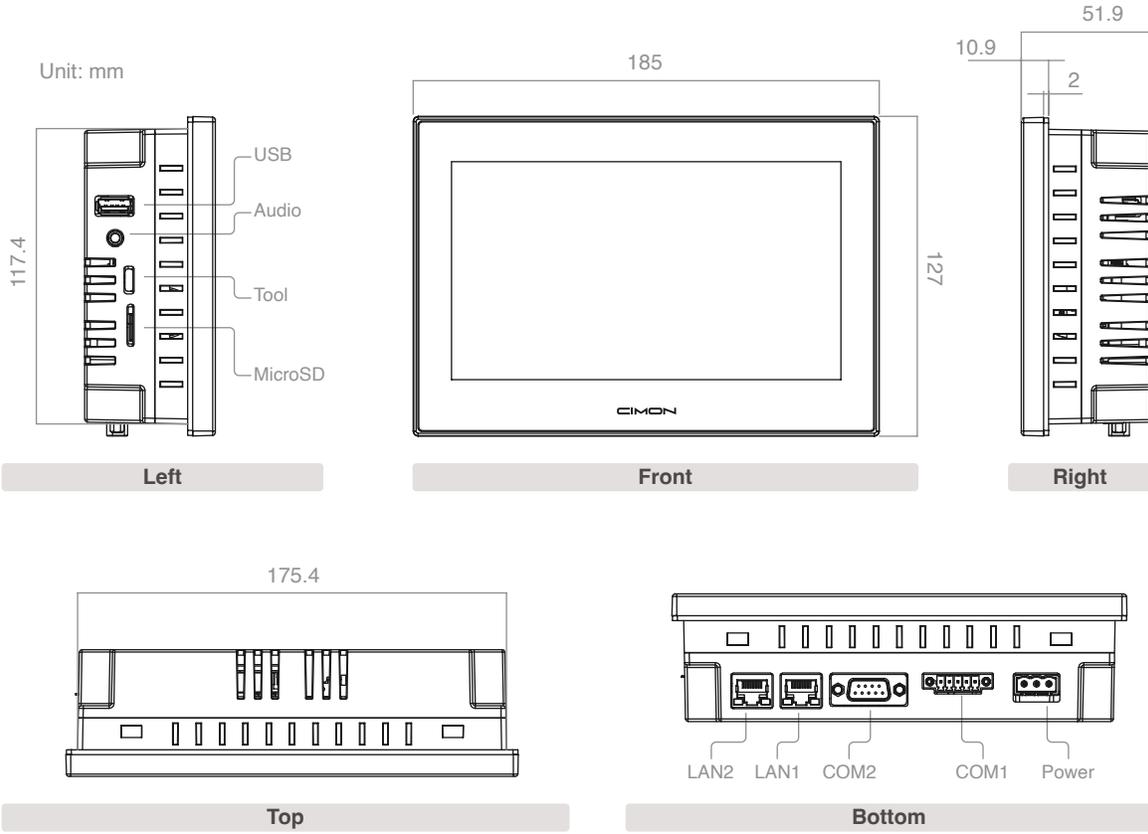
Physical

Model	Base	Advanced
Dimensions	185 x 127 x 51.9 mm (7.28 x 5.04 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	

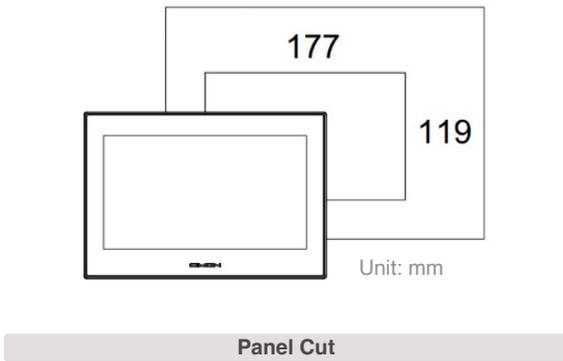
Accessories

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

Spec Drawings



Installation



Version: 24  
Updated: 02.10.2025

sales@cimoninc.com  
+1(800)300-9916

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