

# eXT2 SERIES



## 15-Inch eXT2 HMI

The 15" eXT2 Series Xpanel HMI delivers robust performance in a compact design, certified for demanding industrial environments and available with Class I Division 2 Hazardous rating (Extreme models). With enhanced processing power, high-resolution visuals, and a sleek, lightweight profile, it's built to meet rigorous standards for both functionality and durability.

### Resistive

#### Advanced:

CM-eXT2-15W-R-DF

#### Extreme:

CM-eXT2-15W-RH-DF

### Capacitive

#### Advanced:

CM-eXT2-15W-C-DF

#### Extreme:

CM-eXT2-15W-CH-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 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
- Class I Division 2 Hazardous rating (Extreme models)
- 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



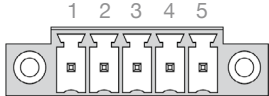
**Functional**

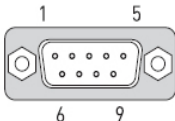
| Touch Panel               |                  | 5-Wire Resistive                                                 |                         | 10-Point Capacitive   |                         |
|---------------------------|------------------|------------------------------------------------------------------|-------------------------|-----------------------|-------------------------|
| Type                      |                  | Advanced                                                         | Extreme                 | Advanced              | Extreme                 |
| Part Number (CM-eXT2-...) |                  | 15W-R-DF                                                         | 15W-RH-DF               | 15W-C-DF              | 15W-CH-DF               |
| Enclosure                 | Front            | Aluminum                                                         |                         |                       |                         |
|                           | Rear             | Aluminum                                                         |                         |                       |                         |
| LCD Size                  |                  | 15.6 inch Wide TFT Color                                         |                         |                       |                         |
| Colors                    |                  | 16.7M                                                            |                         |                       |                         |
| Resolution                |                  | 1920 x 1080 WXGA (16:9)                                          |                         |                       |                         |
| Effective Display Area    |                  | 344.16 x 193.59 mm                                               |                         |                       |                         |
| PPI                       |                  | 141                                                              |                         |                       |                         |
| Backlight                 |                  | LED                                                              |                         |                       |                         |
| Luminance                 |                  | 450 cd/m <sup>2</sup>                                            | 1,200 cd/m <sup>2</sup> | 450 cd/m <sup>2</sup> | 1,200 cd/m <sup>2</sup> |
| UV Protective Coating     |                  | -                                                                | 99.9% UV Protection     | -                     | 99.9% UV Protection     |
| Contrast Ratio            |                  | 800:1                                                            |                         |                       |                         |
| Backlight Life            |                  | 50,000 Hours                                                     |                         |                       |                         |
| Touch Panel Accuracy      |                  | Active Area Width (X) $\pm 2\%$ , Height (Y) $\pm 2\%$           |                         |                       |                         |
| 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         |                  | 23.5 W<br>(Max: 25 W)                                            | 35 W<br>(Max: 36.6 W)   | 23.5 W<br>(Max: 25 W) | 35 W<br>(Max: 36.6 W)   |
| 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), NEMA Type 4X, 12                    |                         |                       |                         |
|                           | Hazardous Rating | -                                                                | UL CID2                 | -                     | UL CID2                 |

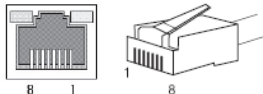
Environmental

| Type                  | Advanced                              | Extreme |
|-----------------------|---------------------------------------|---------|
| 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                                                                             |             |
|  |             |
| RJ45 Connector      RJ45 Jack                                                         |             |

Accessories

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

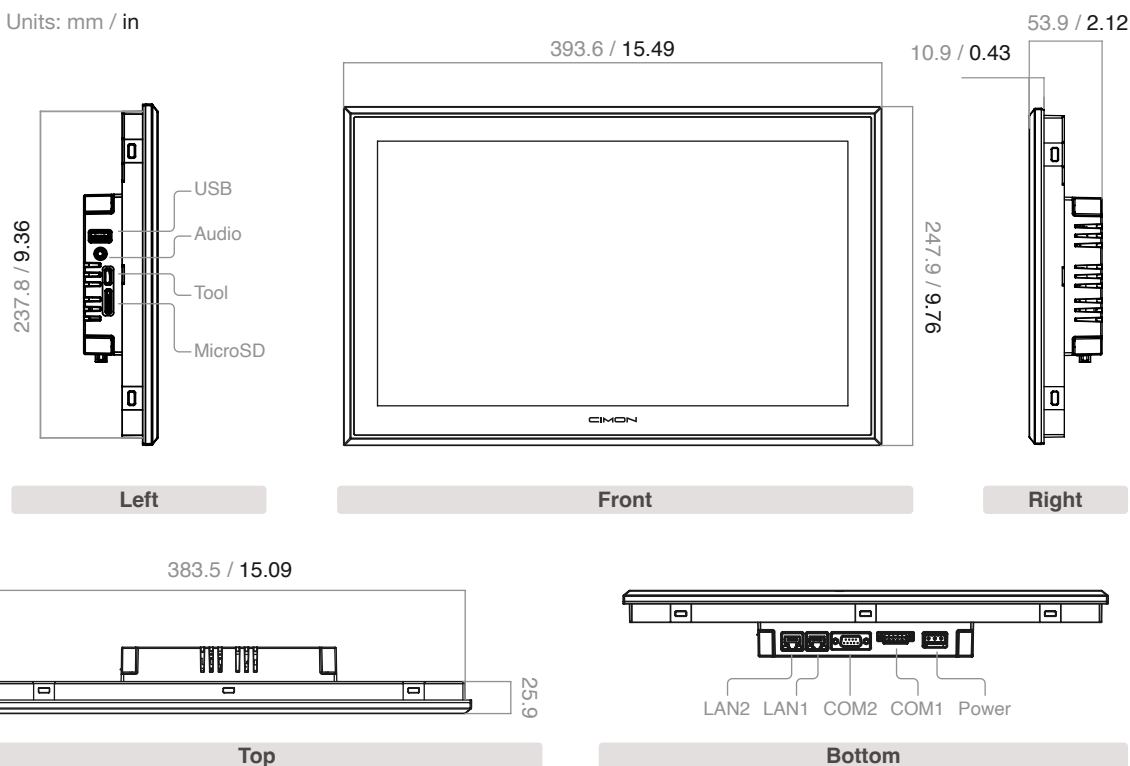
Physical

| Type         | Advanced                                         | Extreme |
|--------------|--------------------------------------------------|---------|
| Dimensions   | 393.6 x 247.9 x 53.9 mm (15.49 x 9.76 x 2.12 in) |         |
| Panel Cut    | 385 x 239 mm (15.16 x 9.41 in)                   |         |
| Weight       | 3.4 kg (7.49 lbs)                                |         |
| VESA (W x H) | 75 mm x 75 mm (2.95 x 2.95 in)                   |         |

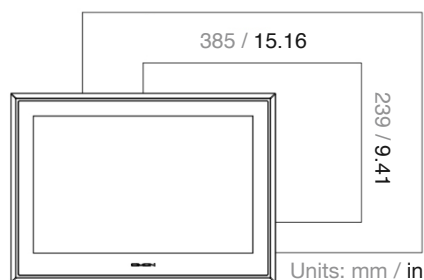
Spec Drawings

All eXT2-15 models

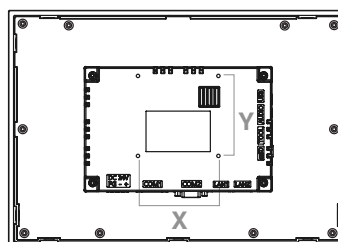
Units: mm / in



Installation



Panel Cut



VESA Mount

Units: mm / in

X: 75 / 2.95

Y: 75 / 2.95

Screw: M4 Max. 9