



# CPX

## 9RU RUGGED TOUCHSCREEN MONITOR

## RUGGED DISPLAY

The CPX1-241 mount-on-rack display is ideal for many rugged military applications, particularly ones that require extensive screen space. The display has an optional InfraRed Touch Screen and supports Multi Touch Gesture technology. A bonded oleophobic anti-reflective glass overlay is standard and an optional micromesh EMI Filter is available. The advanced military grade LCD controller accepts virtually any video signal including optional HD-SDI. The controller provides advanced features such as picture-in-picture, picture-by-picture and text overlay.



CP North America's 2U-5U rackmount computer systems are designed with a removable back plate that allows a 12V power cord to run from the computer's power supply to a display or keyboard video monitor. This optional feature, the Exterior Power Jack, is available for this monitor. By running the display with the computer systems' power supply, this Exterior Power Jack option can provide many benefits:

- Reduction in the number of required cables
- Elimination of additional equipment, i.e., a power brick
- Reduction in total system weight and cost

To enjoy these benefits, power up your new display with a CP North America rugged server.

## CHASSIS SPECIFICATIONS

<b>DIMENSIONS</b>	23" x 15.47" x 3.2" (584.2mm x 392.9mm x 81.3mm)
<b>SHIPPING WEIGHT</b>	24lbs (10.9kg)
<b>CONSTRUCTION</b>	High-strength 5052-H32 aircraft-grade aluminum
<b>POWDERCOATING</b>	Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C214-BK110 polyester semi-gloss, fine texture
<b>PLATING</b>	Chem-Film per MIL-C-5541F, Class 1A
<b>MOUNTING OPTIONS</b>	Rack mounting, panel mounting, VESA 100

## Who We Are

CP North America designs, fabricates, and integrates standard and customized high-performance computing platforms and LCD monitors for military, industrial, and commercial applications.

Using COTS components, CP North America provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP North America is an ITAR Registered and ISO 9001:2015 Certified business that has been operating for over twenty years.

**Assembled in the USA**  
**ISO 9001:2015 Certified**  
**ITAR Registered**

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# TECH SPECS

<b>SCREEN DIAGONAL</b>	24"
<b>CONTRAST RATIO</b>	1000:1
<b>VIEWING ANGLE</b>	89° (L/R/U/D)
<b>RESPONSE TIME</b>	14ms
<b>NATIVE RESOLUTION</b>	1920 x 1200
<b>BRIGHTNESS</b>	300 cd/m <sup>2</sup>
<b>BACKLIGHT</b>	LED
<b>COLORS</b>	16.7M
<b>POWER INPUT</b>	Universal AC Adapter 28VDC 48/12V or 28/12V DC-DC
<b>POWER DISSIPATION</b>	50 Watts
<b>AUDIO</b>	2x water-resistant speakers
<b>EXTERIOR POWER JACK</b>	Yes (optional)
<b>INPUTS</b>	DisplayPort 1.2 DVI-I (VGA via adapter) HDMI 1.4
<b>OPTIONS</b>	Vandal Shield Bonded Glass EMI Shielding USB Multi-touch Panel

## TOUCH SCREEN

- Infra Red touch screen technology
- Resolution of 4096 x 4096 points
- Supports Multi Touch gesture technology
- Touch activation force: none
- Minimum touch object: 8mm dia
- Sealability: IP65 from the front
- Can be used in conjunction with AR glass overlay
- Use with finger, gloved hand, stylus, or other pointer

## HARSH ENVIRONMENTS

CP North America designs, builds, and tests our ruggedized offerings to meet MIL-STD-810, 461, and 901. This includes environmental factors such as:

- **HIGH ALTITUDE**
- **EXTREME HIGH & LOW TEMPERATURES**
- **EMI**
- **HUMIDITY**
- **BLOWING SAND AND DUST**
- **VIBRATION**
- **SHOCK**

## QUESTIONS?

Reach out to us at  
cpna.tech  
or call 928.239.9500

## ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

## REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

## FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 50,000 sqft and has dedicated areas for manufacturing and engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

## QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a rigorous system test and burn-in before shipment to the customer
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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