



# CPX

## RUGGED LCD MONITOR

## RUGGED DISPLAY

The CPX1-12 display is ideal for many rugged military applications, particularly ones that require a highly capable and compact form factor. A bonded oleophobic anti-reflective glass overlay is standard and an optional micromesh EMI Filter is available. The advanced military grade LCD controller accepts DVI and RS-170 video inputs.



CP North America's 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 server.

## APPLICATIONS

- Airborne Operations
- Land-based Operations
- Seaborne Operations
- Telemetry
- Diagnostics
- Simulation
- C4ISR
- Communications
- Imaging
- Persistent Surveillance
- UAVs
- Automation
- Severe Environment Operations

## KEY SPECIFICATIONS

12.1" TFT Active-Matrix LCD Display  
 170° x 170° Viewing Angle  
 1000:1 Typical Contrast Ratio  
 XGA (1024x768) Resolution  
 EMI Cover Glass With Oleophobic & Anti-Glare treatment  
 18-36V DC Power Input  
 Sealed 6 Button Horizontal Keypad, LED Backlit, RS-422 programmable  
 Sealed 9 Button Vertical Keypad, LED Backlit, RS-422 programmable  
 Harsh Environment LCD Display Controller  
 Mil-Circular D38999 I/O Input  
 Mil-Circular D38999 DVI Repeater Output  
 DVI-I, HDMI, DP Inputs

## 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**

**CP North America**  
 2620 Deep Well Ranch Rd  
 Prescott, AZ 86301  
 cpna.tech  
 928.239.9500



# TECH SPECS

## CHASSIS SPECIFICATIONS

<b>DIMENSIONS</b>	13.8" x 10.4" x 2.5" (350mm x 264mm x 63.5mm)
<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
<b>OPTIONAL</b>	Heated Cover Glass

## 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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