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 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 Technologies' 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 Technologies 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
90° x 90° Viewing Angle
1000:1 Typical Contrast Ratio
XGA (1024x768) Resolution
EMI Cover Glass With Oleophobic & Anti-Glare treatment
18-36V DC Power Input
Mil-Std 704A, Mil-Std, 461E & Mil-Std 804 18-36V DC-DC Converter
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 Video, RS-422 and Composite (NTSC/PAL) Inputs

Who We Are

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies, a business unit of CP North America, designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Technologies 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 Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating for over twenty years.

CP Technologies
2620 Deep Well Ranch Rd
Prescott, AZ 86301
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928.239.9500

TECH SPECS

CHASSIS SPECIFICATIONS

DIMENSIONS	13.8” x 10.4“ x 2.5” (350mm x 264mm x 63.5mm)
CONSTRUCTION	High-strength 5052-H32 aircraft-grade aluminum
POWDERCOATING	Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C214-BK110 polyester semi-gloss, fine texture
PLATING	Chem-Film per MIL-C-5541F, Class 1A
MOUNTING OPTIONS	Rack mounting, panel mounting, VESA 100
OPTIONAL	Heated Cover Glass

HARSH ENVIRONMENTS

Designed to meet or exceed MIL-STD-810G to the below specifications.

ALTITUDE	MIL-STD-810, Method 500.6
HIGH TEMPERATURE	50°C Operational, 60°C Storage MIL-STD-810, Method 501.6
LOW TEMPERATURE	0°C Operational, -20°C Storage MIL-STD-810, Method 502.6
HUMIDITY	5-95%, Non-condensing MIL-STD-810, Method 507.6
BLOWING SAND AND DUST	Procedures I and II MIL-STD-810, Method 510.6
TRANSPORT VIBRATION	MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	MIL-STD-810, Method 516.7

QUESTIONS?
Reach out to us at
comabtproven.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 minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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