



# CCX

## 1U RACKMOUNT KEYBOARD VIDEO MONITOR

## DISPLAY AND KEYBOARD

Our CCX Displays are high-performance 1U rackmount clamshell LCD keyboard drawers offering 17.3-inch and 19-inch displays that can be used for many rugged military applications. They include a solid milled aluminum front panel, lightweight 5052-H32 aluminum construction and locking stainless hardware throughout. Electrical components are selected for their inherent ruggedness and revision control.



## KEYBOARD DETAILS

- Sealed silicone rubber keyboard
- 97 keys (Touch Pad) or 113 keys (Hula Point)
- 12 (Touch Pad) or 20 (Hula Point) function keys
- Integrated numeric pad
- High quality carbon-on-gold contacts
- Protection to NEMA 4 / IP65
- PS/2 or USB Connection
- Tactile keystroke
- 10,000,000 lifecycles per switch
- Built-in sealed Touch Pad or Hula Point mouse devices

## CHASSIS SPECIFICATIONS

<b>DIMENSIONS</b>	19" X 1.75" X 24.4" (482.6mm X 44.45mm X 619.76mm)
<b>CONSTRUCTION</b>	High-strength 5052-H32 aircraft-grade aluminum, solid milled front panel, includes Cable Management Arm (24.4" deep)
<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>SLIDES</b>	Solid Bearing Slides (Friction Slides), 15.4-inches of travel Lock-out button. Stainless self-locking hardware throughout Includes Extension Bracket (0 to 6.5" extension) Includes Extension Bracket (3 to 11" extension)

## 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

## PANEL DETAILS

	<b>CCX-17.3</b>	<b>CCX-19</b>
<b>SCREEN DIAGONAL</b>	17.3"	19"
<b>SYSTEM WEIGHT</b>	19.5 lbs	21 lbs
<b>CONTRAST RATIO</b>	600:1	1000:1
<b>VIEWING ANGLE</b>	80° (L/R/U/D)	80° (L/R/U/D)
<b>RESPONSE TIME</b>	40ms	5ms
<b>NATIVE RESOLUTION</b>	1920 x 1080	1280 x 1024
<b>BRIGHTNESS</b>	400 cd/m2 1000 cd/m2 high-bright (optional)	350 cd/m2 1000 cd/m2 high-bright (optional)
<b>BACKLIGHT</b>	LED	LED
<b>COLORS</b>	16.7M	16.7M

## 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**

## 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

## POWER DETAILS

<b>POWER INPUT</b>	AC input 85 to 264VAC, 1275/704 28VDC
<b>POWER DISSIPATION</b>	42 Watts
<b>EXTERIOR POWER JACK</b>	Yes (Optional)

## CONTROLLER FEATURES

- Image Up-Scaling
- Image Down-Scaling
- Picture In Picture
- Memory Buffer
- Sync On Green/Composite
- DV RS-232 Serial Protocol
- Picture By Picture
- Text Overlay Function
- Variable Aspect
- Freeze & Zoom Function
- Programmable Hot Keys
- Ethernet Command Protocol

## INPUTS

- ARGB (15 Pin VGA)
- DVI-D Input
- PAL / NTSC / SECAM
- Composite Video Input
- HD Component YPbPr (optional)
- SD Component YCbCr (optional)
- HDMI 1.3 (optional)

## 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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