



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.

Chassis Plans' 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 Chassis Plans' server.



FEATURES

- Tested to MIL-STD-810G
- Solid aluminum front panel
- Lightweight construction

APPLICATIONS

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

Who We Are

CP Technologies 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 SBA-certified small business that has been operating in Southern California for over a twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
10840 Thornmint Road
San Diego, CA 92127
combatproven.tech
858.571.4330



TECH SPECS

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

POWER DETAILS

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

PANEL DETAILS

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

SUPPORTED RESOLUTIONS

- VGA (640 x 480)
- WVGA (800 x 480)
- SVGA (800 x 600)
- XGA (1024 x 768)
- SXGA (1280 x 1024)
- WXGA (1366 x 768)
- WSXGA+ (1680 x 1050)
- WXGA (1280 x 768, 1280 x 800, 1440 x 900)
- HD-1080 (1920 x 1080)
- WUXGA (1920 x 1200)

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)



TECH SPECS

CHASSIS SPECIFICATIONS

DIMENSIONS	19" X 1.75" X 24.4" (482.6mm X 44.45mm X 619.76mm)
CONSTRUCTION	High-strength 5052-H32 aircraft-grade aluminum, solid milled front panel, includes Cable Management Arm (24.4" deep)
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
SLIDES	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)

HARSH ENVIRONMENTS

ALTITUDE	10,000 ft Operational, 30,000 ft Storage MIL-STD-810, Method 500.6
HIGH TEMPERATURE	70°C Operational, 70°C Storage MIL-STD-810, Method 501.6
LOW TEMPERATURE	19": 0°C Operational, -40°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	US Highway Truck and Air Transport MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	MIL-STD-810, Method 516.7 Procedure VI

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 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to 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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