

# COTS Rugged Military Grade 1U Rackmount Keyboard Video Monitor

MILITARY | INDUSTRIAL | COMMERCIAL



Screen Size 15", Specialty Display for Extreme Temperatures and Exceptionally Bright Environments

Assembled in the USA  
ISO 9001:2008 Certified  
ITAR Registered

Our CCX-15 high-bright display is a high-performance 1U rackmount clamshell LCD keyboard drawer offering a 15-inch transfective display with LED backlighting. The combination of transfective technology, AR filtering and very high brightness makes for an incredibly easy to see display in virtually any lighting condition, including direct sunlight. It also has exceptional strength and is relatively low weight.

Specifications for our standard products can always be customized to fit your unique application requirements.

In-house Engineering  
Department

Rapid Prototyping



## Applications

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

## Features

- Lightweight aluminum construction
- Enhanced clarity in bright sunlight
- Extreme temperature operation


## Harsh Environments

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


### ALTITUDE

10,000 ft Operational, 30,000 ft Storage  
MIL-STD-810, Method 500.5

### HIGH TEMPERATURE

 70°C Operational, 80°C Storage  
MIL-STD-810, Method 501.5

### LOW TEMPERATURE

 -30°C Operational, -40°C Storage  
MIL-STD-810, Method 502.5

### HUMIDITY

5-95%, Non-condensing  
MIL-STD-810, Method 507.5

### BLOWING SAND AND DUST

Procedures I and II  
MIL-STD-810, Method 510.5 *(bonded glass only)*

### TRANSPORT VIBRATION

US Highway Truck and Air Transport  
MIL-STD-810, Method 514.6

### BENCH HANDLING SHOCK

Procedure VI, 50G @ 11ms  
MIL-STD-810, Method 516.6

Contact us today!  
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[www.chassis-plans.com](http://www.chassis-plans.com)

# COTS Rugged Military Grade 1U Rackmount KVM

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## CCX-15 Panel Specifications

### DIMENSIONS

19" X 1.75" X 24.4" (482.6mm X 44.45mm X 619.76mm)

### ENCLOSURE DETAILS

#### 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)

### OPTIONAL DISPLAY ENHANCEMENTS

#### Safety Glass

Using 3mm smudge-resistant AR coated soda lime float glass, bonded to the LCD panel with optical index matched adhesive

#### EMI Protection

Using a laminate of 1.1mm smudge-resistant AR coated soda lime float glass panel and a 1.1 mm ITO coated glass panel (<math>12.5\Omega/\text{sq}</math>) grounded via a copper buss bar, bonded to the LCD panel with optical index matched adhesive

### KVM SWITCH BOX

This option is available as a separate product.

## Panel Details

CCX-15

### SCREEN DIAGONAL

15"

### WEIGHT (system)

18 lbs

### CONTRAST RATIO (typical)

1000:1

### VIEWING ANGLE

80° (L/R/U/D)


### RESPONSE TIME (typical)

17ms

### NATIVE RESOLUTION

1024 x 768

### BRIGHTNESS

 950 cd/m<sup>2</sup>

### BACKLIGHT

LED

### COLORS

16.7M

## Power Details

### POWER INPUT (native 12 VDC with options)

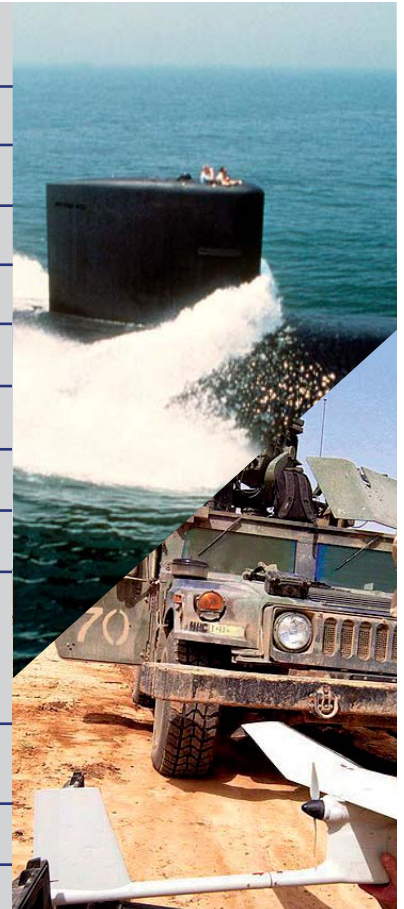
AC input 85 to 264VAC, 1275/704 28VDC

### POWER DISSIPATION (typical)

40 Watts

### EXTERIOR POWER JACK (optional)

Yes



## Controller Specifications

	Standard	Advanced
<b>SUPPORTED VIDEO RESOLUTION</b>		
VGA (640 x 480)	•	•
WVGA (800 x 480)		•
SVGA (800 x 600)	•	•
XGA (1024 x 768)	•	•
SXGA (1280 x 1024)	•	•
WXGA (1366 x 768)		•
WXGA (1280 x 768, 1280 x 800, 1440 x 900)		•
WSXGA+ (1680 x 1050)		•
HD-1080 (1920 x 1080)		•
WUXGA (1920 x 1200)		•
<b>INPUTS</b>		
<i>Standard</i>		
ARGB (15 Pin VGA)	•	•
DVI-D Input	•	•
PAL / NTSC / SECAM		•
HDMI 1.3		•
<i>Optional</i>		
Composite Video Input		•
HD Component YPbPr		•
SD Component YCbCr		•
<b>FEATURES</b>		
Image Up-Scaling	•	•
Image Down-Scaling		•
Picture In Picture		•
Memory Buffer		•
Sync On Green/Composite	•	•
DV RS-232 Serial Protocol	•	•
Ethernet Command Protocol		•
Picture By Picture		•
Text Overlay Function		•
Variable Aspect		•
Freeze & Zoom Function		•
Programmable Hot Keys		•

## Power Alternative

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.

## 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
- USB interface only on Touch Pad version
- USB or PS/2 interface on Hula Point version



## CCX-15 Display Photos



19" Hula Point Keyboard Option



Touch Pad Keyboard Option



19" I/O connectors are dependent upon the options selected. See specifications for details.



## Who We Are

### CHASSIS PLANS

- Chassis Plans designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.
- Using COTS components, Chassis Plans 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.
- Chassis Plans is an ITAR Registered and SBA-certified small business that has been operating in Southern California for over a decade.

### YOUR CONFIGURATION. ONE PART NUMBER.

- It's our mission to make your life easier, so our Sales Engineers will walk you through the ordering process, making sure the details are resolved and that you get what you need.
- One part number means easier procurement and less paperwork for you.
- Dedicated Sales and Program Managers.
- Last time buy opportunities for end-of-life components.



Contact us today!  
858.571.4330 or saleseng@chassisplans.com  
www.chassis-plans.com

### Chassis Plans

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