

## 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.

### 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

### YOUR CONFIGURATION. ONE PART NUMBER.

- It's our mission to make your life easier. Our Sales Engineers will help you select the right configuration for your project, making sure the details are analyzed and that the system meets your specifications.
- 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.

### 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 9001:2008 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
- 2-year warranty on all integrated systems and LCD monitor products
- Assembled in the USA

# COTS Rugged Military Grade 1U Rackmount Keyboard

# CKX Keyboard

## Trackball or Touch Pad Keyboard

*Assembled in the USA  
ISO 9001:2008 Certified  
ITAR Registered*

Our CKX Keyboard can be used for many rugged military applications. You have the option of a trackball or touch pad. The keyboard has exceptional strength, is low weight, and works well under extreme temperature swings.

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
- Severe Environment Operations

## Features

- Lightweight aluminum construction
- Sealed to NEMA4 (IP65)
- Trackball or Touch Pad options

## Harsh Environments

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

### ALTITUDE

12,000 ft Operational, 40,000 ft Storage  
MIL-STD-810, Method 500.5

### HIGH TEMPERATURE

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

### LOW TEMPERATURE

0°C Operational, 0°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

### TRANSPORT VIBRATION

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

### BENCH HANDLING SHOCK

Procedure VI, 20G @ 11ms  
MIL-STD-810, Method 516.6



For more information visit  
[www.chassis-plans.com](http://www.chassis-plans.com)  
or call 858.571.4330

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CKX-0117

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# COTS Rugged Military Grade 1U Rackmount Keyboard

MILITARY | INDUSTRIAL | COMMERCIAL

## CKX Keyboard Specifications

### DIMENSIONS

19" X 1.75" X 16" (482.6mm X 44.45mm X 404.4mm)  
Fits 16" to 30" Racks (adjustable slide brackets)  
Minimum keyboard extension: 9.3" (to clear rear of keyboard)  
Full keyboard extension: 15.5" (to lock engagement)

### WEIGHT

11 pounds, weight varies by configuration

### ENCLOSURE DETAILS

#### Construction

Aluminum alloy construction

#### 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)

#### Rear Panel

Includes cable management arm  
Cable Length: Approximately 36" (from rear of cable mgmt arm)  
PS/2 Model: 2 PS/2 connectors for trackball and keyboard  
USB Model: 1 USB connector (trackball and keyboard signals on same connector)

## Keyboard Details

- Sealed silicon keys with Dura-coating
- NEMA4 (IP65) rated
- PS/2 or USB connection
- High-quality carbon-on-gold switch elements
- Tactile keystroke
- 10,000,000 lifecycles per switch
- Synchronous 8-bit data

## Trackball Details

- Separate from keyboard assembly
- 38mm ball
- Sealed to NEMA4 (IP65 static, IP54 dynamic) standards, water and dust proof from front surface
- Two mouse buttons
- >6 million revolutions lifetime

## Touch Pad Details

- Keyswitch Technology: Gold Plated Domes
- Protection Level: IP65 (Front)
- Operating Force: 3.0N
- Operating Principle: Capacitive
- Resolution: 100-300dpi
- Active Area: 59x42mm

## CKX Keyboard Photo



19"

1.75"  
Hula Point Keyboard Option  
Touch Pad Option also available.

