

COTS Rugged Military Grade 2U Rackmount Trifold LCD Monitor

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



Screen Sizes 19", Special Model for Wide Temperature Range and Extremely Bright Operational Conditions

Assembled in the USA ISO 9001:2008 Certified ITAR Registered

Our TFX Displays are rugged, military grade, high performance, 2U rackmount LCD panel displays offering three 19-inch TFT LCD displays with per panel resolution of 1280x1024. With exceptional strength, the displays provide expansive working space. The TFX1-192 model is optimal for extreme outdoor environments due to its brightness and ability to operate in widely varied temperatures.

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

For more information visit www.chassis-plans.com or call 858.571.4330



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Features

- Three 19" monitors in a 2U form factor
- Optional high-bright displays
- Audio capability standard

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

€ 50°/70°C Operational, 60°/80°C Storage* MIL-STD-810, Method 501.5

LOW TEMPERATURE

✓ 0°/-20°C Operational, -20°/-30°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 (front surface, bonded glass only)

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

MILITARY | INDUSTRIAL | COMMERCIAL

TFX Panel Specifications

/ DIMENSIONS

19" X 3.5" X 24.1" (482.6mm X 88.9mm X 613.2mm)

Deployed Dimensions

49.9" wide x 19.6" high (from bottom of front panel)

OPTIONAL DISPLAY ENHANCEMENTS

Safety Glass

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

EMI Protection

Using a laminate of smudge-resistant AR coated soda lime float glass panel and ITO coated glass panel ($<12.5\Omega/sq$) 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.

/ ENCLOSURE DETAILS

Construction

High-strength 5052-H32 aircraft-grade aluminum. 0.38" solid milled front panel. Stainless self-locking hardware throughout

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)

Support and Stabilization

Gas strut assisted opening and lock down. Left/right monitor positions adjustable.

Panel Details	TFX1-191	TFX1-192
SCREEN DIAGONAL	19"	19"
WEIGHT (system)	37 lbs	37 lbs
OPERATING/STORAGE TEMPERATURE*	0°C to 50°C / -20°C to 60°C	✓ -20°C to 70°C / -30°C to 80°C
CONTRAST RATIO (typical)	1000:1	800:1
VIEWING ANGLE	80° (L/R/U/D)	80° (L/R/U/D)
RESPONSE TIME (typical)	5ms	12ms
NATIVE RESOLUTION	1280 x 1024	1280 x 1024
BRIGHTNESS	350 cd/m^2	$\sim 1500 \text{ cd/m}^2$
BACKLIGHT	LED, edge-lit	LED, edge-lit
COLORS	16.7M	16.7M
Power Details		
POWER INPUT (native 12 VDC with options)	AC input 85 to 264VAC, 1275/704 28VCD	AC input 85 to 264VAC, 1275/704 28VCD
POWER DISSIPATION (typical)	123 Watts	195 Watts
EXTERIOR POWER JACK (optional)	Yes	Yes
AUDIO	Yes, includes (2x) water-resistant speakers	Yes, includes (2x) water-resistant speakers

Controller Specifications

SUPPORTED VIDEO RESOLUTION

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)

HD-1080 (1920 x 1080)

WUXGA (1920 x 1200)

Programmable Hot Keys

1440 x 900)

WXGA (1280 x 768, 1280 x 800,

Advanced

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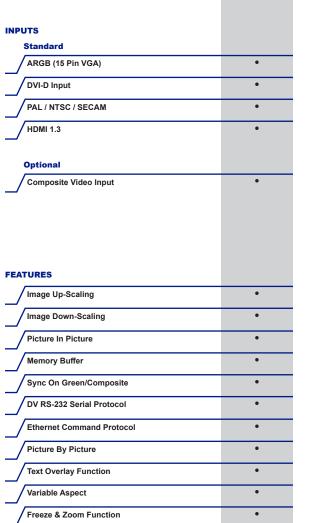
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Power Alternative

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.

TFX Display Photos



17"

I/O connections are dependent upon the options selected. See specifications for details

