



EMBEDDED
SYSTEMS, INC.™

6-Slot Rugged AdvancedTCA Enclosure

The 6-Slot rugged AdvancedTCA enclosure is a rack-mountable chassis for military use. Designed in accordance with PICMG 3.0 Rev3, and featuring a variety of power options, this chassis is sturdy, efficient, and ready to support your most environmentally demanding mission-critical military applications.

- Rackmount with rear shock pins or bench-top
- Accepts two shelf managers for redundancy
- Steel outer shell, machined card guides, and a machined aluminum frame
- Highly configurable and customizable for your specific program needs



BACKPLANE

Form factor: AdvancedTCA

Card size: Standard AdvancedTCA

Fabric/Profile: Full mesh bussed IPMB

Slot count: 6 (2 Hub, 4 Node)

POWER

Input power: Three 110/220 VAC inputs, 1500W per power supply, N+1 redundant

Filtering: None

Breaker/Fuse: 15 A fuse per power supply

COOLING

Method: Convection, side to side

Fans: 6 Front and RTM, 189 CFM each, redundant

Watts per slot: 300W

Monitoring/Control: Monitoring, Control via PWM

INTERFACE

I/O: IPMI/SNMP

Switches: ON/OFF/RESET

Indicators: Critical, Major, Minor

PHYSICAL

HWD: 6U x 19" x 15.25"

Weight: 50 lb

Materials: Aluminum/Steel frame

Construction: Bolted sheet metal, machined frame

Finish: Exterior Surfaces powdercoat, Interior Aluminum Surfaces chemical conversion IAW MIL-DTL-5541 Type II Class 3, Interior Steel Surfaces zinc plate with clear chromate conversion ASTM-B633

ENVIRONMENTAL

Temperature: 0C to 60C (op), -40C to 70C (st)

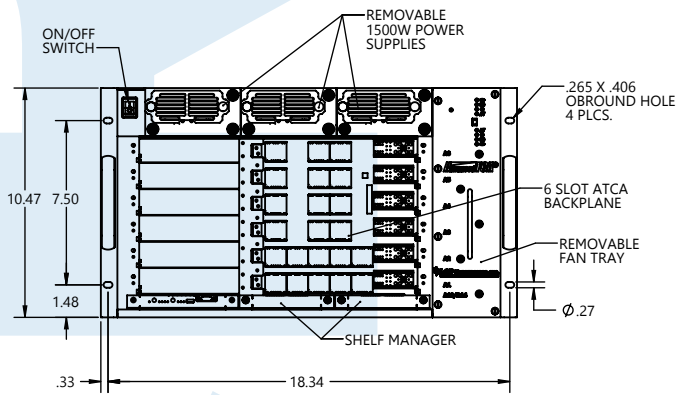
Humidity: 5-95% (op), 10-95% (st)

Altitude: 15,000 ft

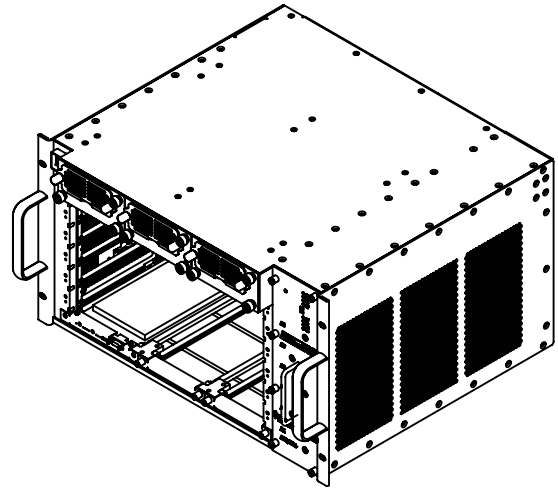
Shock: 20Gs @ 11ms MIL-STD-801E Method 516.4

Vibration: MIL-STD-810G Method 514.6 Procedure 1

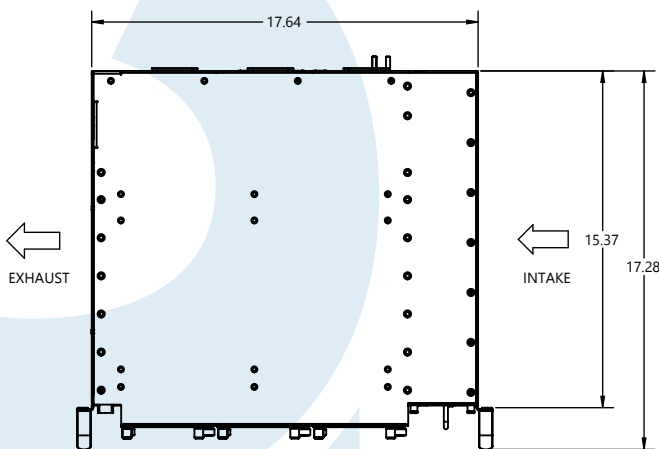
EMI: MIL-STD-461



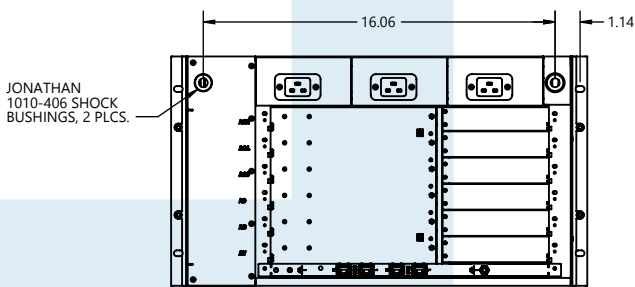
FRONT VIEW



ISOMETRIC VIEW



TOP VIEW



REAR VIEW

- **Shelf/Chassis Management:** Vadatech or Pigeon Point based shelf manager
- **Options:** Rackmount slides, conformal coating, DC input
- **Customizations:** Slot count, cooling orientation
- **Accessories:** Air filter, filler panels

LCR EMBEDDED SYSTEMS OFFERS

Rugged Design Options
 Custom Form Factors
 Custom Backplanes and Electronics
 Custom Standards
 System Integration

Complete Testing Capabilities
 Advanced Design Capabilities
 Retrofit/Upgrade to 3rd Party Equipment
 Complete Manufacturing Services Located in the USA

LCR Embedded Systems provides a limited, one- year warranty on its products. The complete warranty plus other terms and conditions of sale are available upon request. Contact your area LCR Embedded Systems Sales Representative for more information.

