LCR EMBEDDED SYSTEMS, INC.®

14-Slot Rugged AdvancedTCA Enclosure, High-Speed Backplane

Rugged Chassis Designed for Airborne, Shipboard, and Ground-Mobile Applications

LCR Embedded Systems' Gemini Enclosure is a rugged, 14-Slot AdvancedTCA chassis designed for airborne, shipboard and ground mobile equipment. Designed in accordance with PICMG 3.0, this chassis is sturdy, efficient, and ready to support your most environmentally demanding mission-critical military applications.

- Fan tray easily removed for maintenance and repair
- Rackmount with rear shock pins or bench-top
- Accepts two shelf managers for redundancy which can be supplied with the chassis
- Highly configurable and customizable for your specific program needs

Backplane

Form factor: AdvancedTCA
Card size: Standard AdvancedTCA
Fabric/Profile: Dual Star bussed IPMB
Slot count: 14 (2 Hub, 12 Node)

Power

Input power: -48 VDC, 100 A A/B bus
Filtering: None
Breaker/Fuse: 100 A circuit breaker per bus

Thermal

Method: Convection, front to back
Fans: 6 Front, 224 CFM each
Watts per slot: 225W
Monitoring/Control: Monitoring, Control via PWM

Interface

I/O: IPMI
Switches: ON/OFF/RESET
Indicators: Critical, Major, Minor

Physical

HWD: 13U x 19" x 15.7"
Weight: 52 lb
Materials: Aluminum frame
Construction: Bolted sheet metal, machined frame
Finish: Exterior Surfaces powdercoat, Interior Surfaces chemical conversion IAW MIL-DTL-5541 Type II Class 3

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-810E Method 516.4
Vibration: MIL-STD-810G Method 514.6 Procedure I

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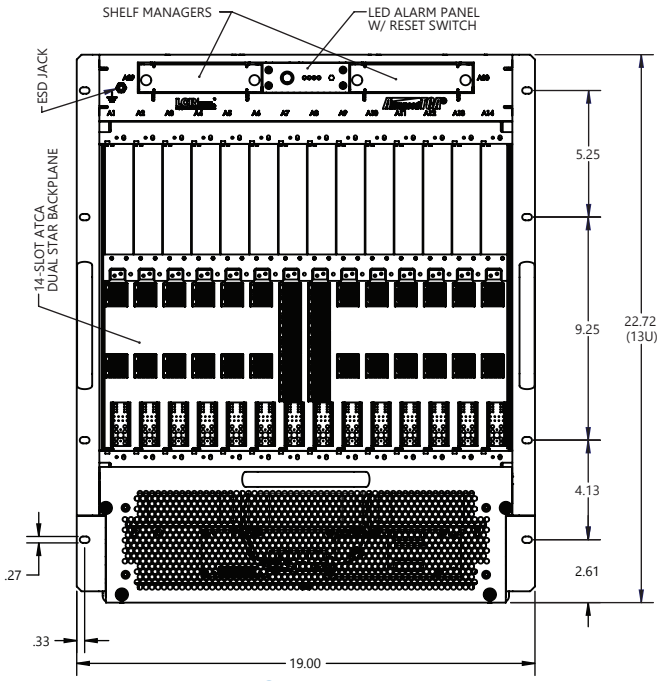
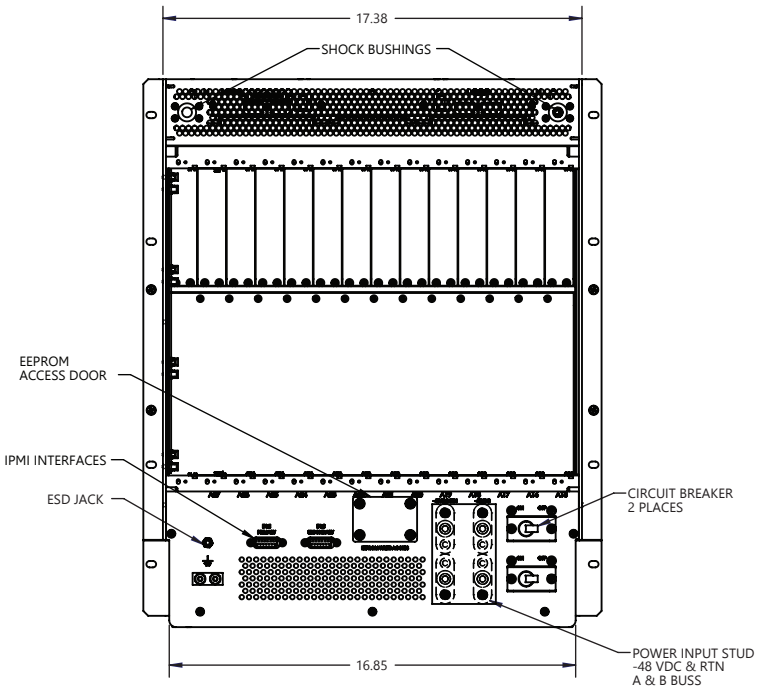
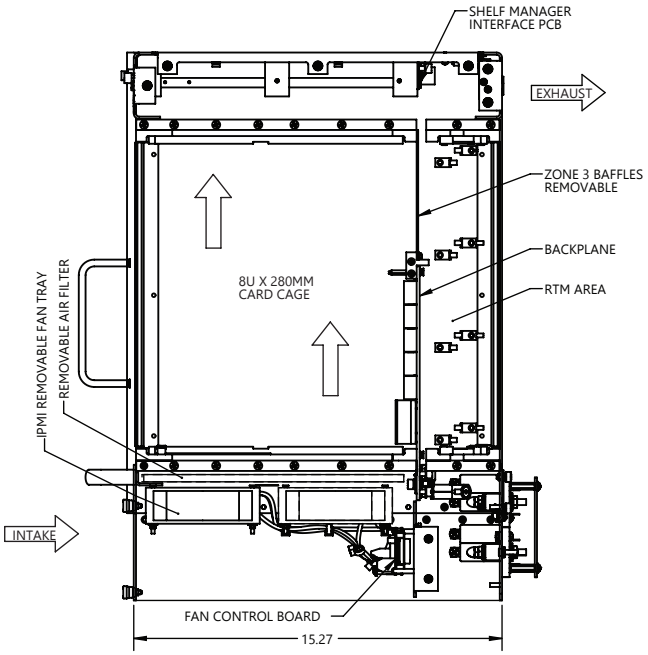


FRONT VIEW



REAR VIEW



SIDE VIEW

- **Shelf/Chassis Management:** Vadatech or Pigeon Point based shelf manager
- **Options:** Rackmount slides, conformal coating, DC input
- **Customizations:** Slot count, cooling orientation, MIL-STD-461
- **Accessories:** Air filter, filler panels