

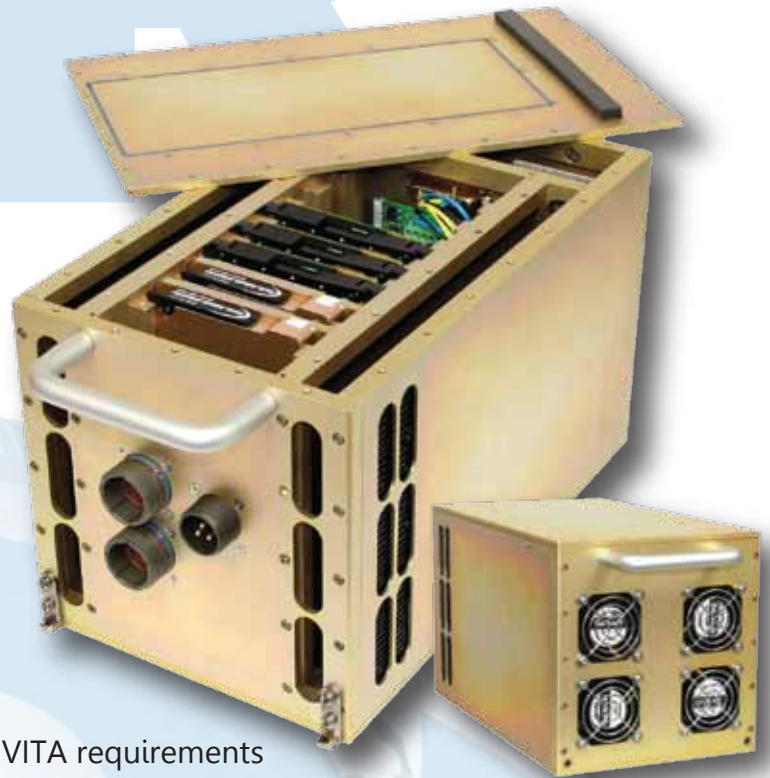


EMBEDDED  
SYSTEMS, INC.™

## 3U VPX ATR Integrated System Lightweight, Mobile, Mission-Ready

The 3U VPX ATR Integrated System provides a highly customizable compute- and Ethernet-based solution offering reduced weight and superior cooling, ideal for small form factor needs such as tracked vehicles and aircraft.

- Ships with 5-Slot VPX backplane that meets all VITA requirements
- Ready out of the box for 3U VPX applications
- Core i7 processor blades with 8GB of DDR3 memory
- Two 28 VDC, 400W power supplies
- 25C ambient convection-over-conduction cooling, 100W of heat dissipation per slot
- Sealed exterior and lightweight all-aluminum construction



### COMPUTING and STORAGE

**Processor:** Two Core i7, 2.5GHz blades  
**Memory:** 8GB, DDR3, 1066MHz per blade  
One XMC slot for expandability

**Optional storage:** 240GB mSATA on XMC Carrier per CPU blade, two external SATA ports via I/O breakout cable (included)

### THERMAL

Convection-over-conduction cooled design,  
Up to 100W per slot

4 x 60mmx60mmx38mm fans (45.5 CFM each)  
Thermally controlled fans maintain low noise profile

### I/O

1 x 28 VDC inputs (MIL-STD-38999)  
2 x 55-Pin I/O Connectors (MIL-STD-38999)  
2 x GigE ports

2 x USB 2.0 ports  
2 x SATA 3.0 ports  
1 x DVI Video port

### PHYSICAL

HWD: 7.62" x 7.5" x 12.62"  
Weight: 27.6 lb fully configured  
Lightweight aluminum frame

Sealed to meet harsh environmental conditions  
Immersion to IP67  
3/4 ATR Short Frame size

### BACKPLANE

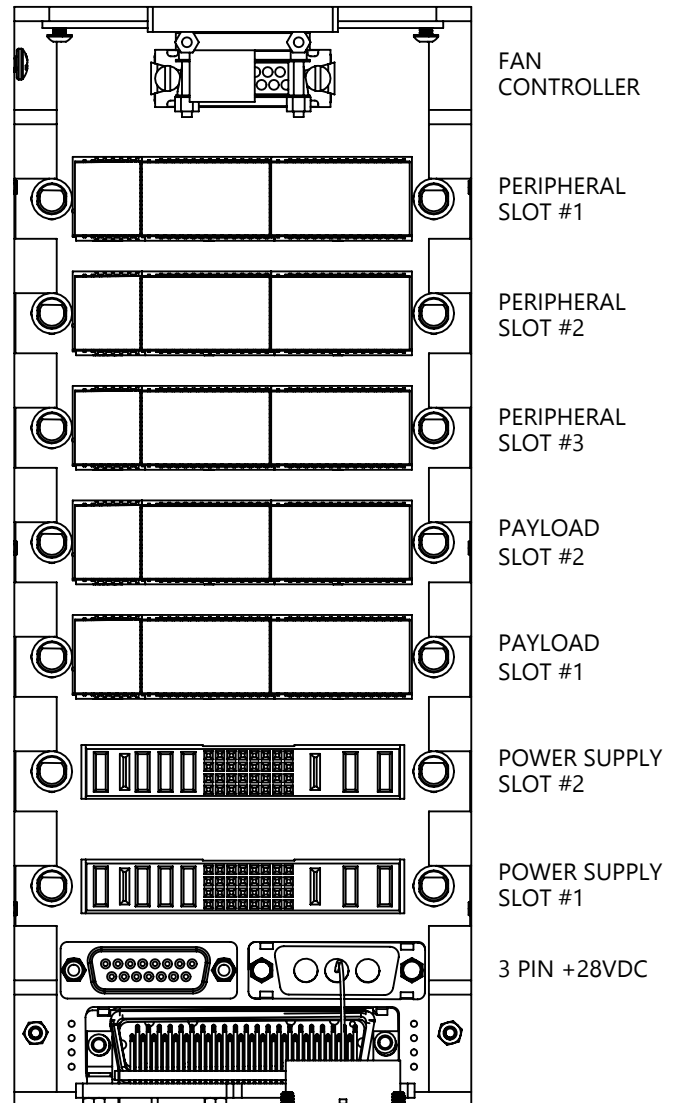
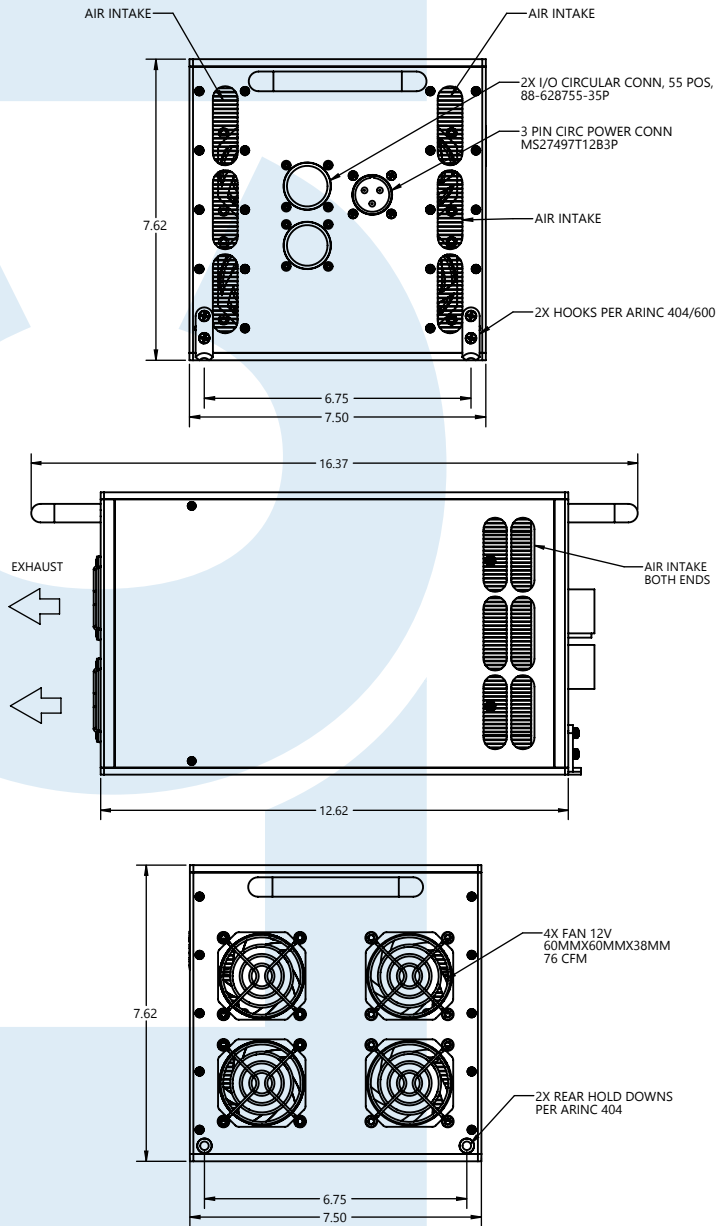
2 x VITA 62 conduction-cooled power supplies  
5 x VITA 48.2 conduction-cooled modules  
2 x DB-15 for fan controls, LED signals  
1 x micro DB-104 for custom signaling

3-Pin power connector, +28VDC  
Backplane profile BKP3-DI05-15.2.13-3  
Designed to meet VITA 46, VITA 48.2, VITA 62, and VITA 65

# ENVIRONMENTAL

**Temperature:** -10C to 70C  
**Altitude:** 30,000ft (9,144m) 26C max  
**Humidity:** 0% to 95% noncondensing  
**Shock:** 30G @ 11ms  
**Vibration:** 1.0G2/Hz (RMS 12G) @ 15-2,000 Hz  
**Agencies:** Designed to meet MIL-STD-810F, MIL-STD-461E, MIL-STD-901D

**Storage:**  
 -50C to 85C  
 50,000ft (15,240m)  
 5% to 95% noncondensing  
 15G @ 11ms  
 1.0G2/Hz (RMS 12G) @ 15-2,000 Hz



## 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.

