

# **End of Life**

MIL-STD-704A/E/F and MIL-STD-1275D 28 VDC VITA 62.0 3U VPX Power Supply with MIL-STD-461F EMI Filtering Please contact X-ES Sales

- MIL-STD-704A/E/F and MIL-STD-1275D 28 VDC input voltage
- MIL-STD-461F EMI filtering
- > VITA 62.0 form factor VPX power supply
- Up to 260 W output on 3.3 V, 5 V, and ±12 V
- Isolated 3.3 V AUX supply
- Reverse-polarity protection to -52 V steady state
- Spike and surge transient suppression
- Short circuit, overcurrent, and overvoltage protection
- Output overvoltage clamping circuitry
- Up to 87% efficient
- -40°C to 85°C conductioncooled operating temperature (at the thermal interface)
- > VITA 48.2 REDI-compliant
- 1.0 in. pitch with Two-Level Maintenance (2LM) support
- VITA 46.11 Tier-1 and Tier-2 IPMI controller for on-card voltage monitoring and control



# XPm2222

The XPm2222 is a VITA 62.0 form factor 3U VPX power supply. The XPm2222 takes in a MIL-STD-704A/E/F or MIL-STD-1275D 28 VDC input voltage and provides up to 260 W on 3.3 V, 5 V, and  $\pm$ 12 V at up to 87% efficiency. The XPm2222 also provides on-card MIL-STD-461F EMI filtering, MIL-STD-1275D transient suppression, and 10 ms of holdup time at 200 W output power.

The XPm2222 fits in a VITA 62-compliant 3U VPX 1.0 in. slot. Up to 16 A on 12 V, 0.5 A on -12 V, 15 A on 5 V, 12 A on 3.3 V, and 0.8 A on 3.3 V auxiliary can be supported on each rail, separately. The XPm2222 can provide a combined total output power of up to 260 W at maximum operating temperature.

The XPm2222 also features a VITA 46.11 Tier-1 and Tier-2 Intelligent Platform Management Interface (IPMI) controller which monitors input and output voltages and temperatures. In addition, the IPMI controller can enable/disable output power.



"Fast, Flexible, Customer-Focused Embedded Solutions" **Extreme Engineering Solutions** 

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### **Input Conditions**

- MIL-STD-704A/E/F or MIL-STD-1275D 28 VDC
- MIL-STD-461F EMI filtering
- 20 V to 32 V steady state at full output
- 14 V to 32 V steady state at 200 W output
- Reverse-polarity protection to -52 V steady state
- Spikes and surge protection

#### Output Power

- Supports up to 260 W in total combined power output
- 3.3 V at up to 12 A
- 5 V at up to 15 A
- 12 V at up to 16 A (with other rails unloaded)
- 12 V at up to 14.5 A (all other rails loaded)
- -12 V at up to 0.5 A
- 3.3 V auxiliary at up to 0.8 A

## **IPMI** Controller

- VITA 46.11 Tier 1 and Tier 2 IPMI Controller (IPMC)
- Enable/disable output power
- Monitors voltages and currents
- Monitors eight temperature sensors
- Connects to backplane via system management bus (l<sup>2</sup>C)

### **Additional Features**

- Up to 87% efficient
- Short circuit protection
- Overvoltage protection
- 10 ms holdup at 200 W output power
- Output rail clamping

### **Physical Characteristics**

Contact X-ES for CAD model if desired

- 3U VPX-REDI conduction-cooled form factor
- Dimensions: 100 mm x 160 mm
- 1.0 in. pitch Two-Level Maintenance (2LM)

#### **Environmental Requirements**

Contact X-ES for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 5
- Conformal coating available as an ordering option

Level 5
Conduction-Cooled
-40 to +85°C (board rail surface)
-55 to +105°C (maximum)
0.1 g²/Hz (maximum), 5 to 2000 Hz
40 g, 11 ms sawtooth
Up to 95% non-condensing



