

# XPand1201

3U CompactPCI Development Platform for Conduction-Cooled Modules

- ▶ Development platform for conduction-cooled modules
- ▶ Forced-air-cooled sidewall heat exchangers
- ▶ Supports 0.8 in. or 1.0 in. pitch conduction-cooled CompactPCI modules
- ▶ Standard CompactPCI configurations in stock
- ▶ PICMG CompactPCI standards-based
- ▶ Customizable with X-ES and third party components
- ▶ Rear Transition Module (RTM) support for maximum I/O flexibility
- ▶ Power and reset switches
- ▶ Power and reset LEDs
- ▶ Up to 482 W total simultaneous power with one power module
- ▶ Up to 60 W per slot at 30°C ambient and 70°C rail
- ▶ Two VITA 62 power slots
- ▶ 12 V up to 16 A
- ▶ 5 V up to 40 A
- ▶ 3.3 V up to 20 A
- ▶ 110-240 VAC, 50/60 Hz power input



## XPand1201

The XPand1201 is a low-cost, flexible, development platform. This platform supports up to ten 0.8 in. or 1.0 in. pitch conduction-cooled CompactPCI modules. It provides 482 W of total simultaneous power, which can be distributed as up to 16 A on 12 V, up to 40 A on 5 V, and up to 20 A on 3.3 V. The heat from the internal conduction-cooled modules is conducted to sidewall exchangers, where it is dissipated to the ambient environment by forced-air cooling. This efficient thermal design allows up to 60 W of power dissipation per slot at 30°C ambient, while maintaining 70°C at the module's thermal interface.

X-ES platforms, including the XPand1201, provide a feature-rich solution for system development. RTMs provide maximum I/O flexibility and rapid system prototyping. Power and reset LEDs are provided for system status. A momentary push button is provided for reset, and a switch is provided for DC power enable.

The XPand1201 is available for purchase in several rapid-development, standard configurations. Custom configurations of modules, RTMs, and backplanes are also available utilizing X-ES and third party components.

# X-ES

Extreme Engineering Solutions

*...Always Fast*

### Extreme Engineering Solutions

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**Form Factor**

- 3U CompactPCI 0.8 in. or 1.0 in. pitch
- 3U CompactPCI RTM

**Slots**

- Ten 1.0 in. pitch slots (including power supply slots)
- Eight 1.0 in. pitch RTM slots

**Power**

- 110-240 VAC, 50/60 Hz power input
- 482 W total simultaneous power
- Up to 16 A on 12 V
- Up to 40 A on 5 V
- Up to 20 A on 3.3 V
- Please consult factory for additional power options

**Cooling**

- Up to 60 W per slot at 30°C ambient and 70°C rail

**Physical Characteristics**

- Dimensions: 11.5 in. (L) x 5.5 in. (W) x 16.5 in. (H)
- 20 lbs. with backplane and power supply

