# XPand1203

### 3U VPX Development Platform for Up to Eight Conduction-Cooled Modules

- Development platform for conduction-cooled modules
- Forced-air-cooled sidewall heat exchangers
- Supports eight 0.8 in. or 1.0 in. pitch conductioncooled VPX modules
- Standard VPX configurations available
- ➤ Compatible with multiple VITA 65 OpenVPX<sup>TM</sup> slot profiles
- Customizable with X-ES and third-party components
- Rear Transition Module (RTM) support for maximum I/O flexibility
- Front panel power and reset switches
- Front panel power and reset LEDs
- > Up to 550 W of total simultaneous power
- Up to 60 W per slot at 30°C ambient and 70°C rail
- > Two VITA 62 power slots
- > 12 V up to 50 A
- > 5 V up to 50 A
- > 3.3 V up to 80 A
- ±12 V\_AUX and 3.3 V\_AUX
- 110-240 VAC, 50/60 Hz power input





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The XPand1203 is a low-cost, flexible, development platform. This platform supports up to eight 0.8 in. or 1.0 in. pitch conduction-cooled VPX (VITA 48.2) modules. It provides 550 W of total simultaneous power, which can be distributed as up to 50 A on 12 V, up to 50 A on 5 V, and up to 80 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 XPand1203, provide a feature-rich solution for system development. Rear Transition Modules (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 XPand1203 is currently 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.

...Always Fast

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#### Form Factor

- 3U VPX (VITA 48.2) 0.8 in. or 1.0 in. pitch
- 3U VPX (VITA 46.10) RTM

#### Slots

- Eight 0.8 in. or 1.0 in. pitch RTM slots
- Eight 0.8 in. or 1.0 in. pitch payload slots
- Two 0.8 in. or 1.0 in. pitch power slots

#### Power

- 110-240 VAC, 50/60 Hz power input
- 550 W total simultaneous power
- Up to 50 A on 12 V
- Up to 50 A on 5 V
  Up to 80 A on 3.3 V
- Up to 8 A on ±12 V\_AUX
- Up to 8 A on  $3.3 V_{AUX}$

- 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



