

XPand1011

Two-Slot 6U VPX Development Platform for Conduction-Cooled Modules with RTM I/O

- › Development platform for two conduction-cooled 6U VPX modules
- › Compatible with multiple OpenVPX™ profiles
- › Utilizes RTMs (Rear Transition Modules) for I/O access
- › Utility plane I/O access for chaining multiple systems
- › Forced-air-cooled sidewall heat exchangers
- › Supports 0.8 in. or 1.0 in. pitch conduction-cooled VPX modules
- › Supports VITA 48.2 REDI
- › Standard VPX configurations in stock
- › Customizable with X-ES and third-party components
- › Power and reset switches
- › Power and reset LEDs
- › Per-slot voltage and current monitoring
- › Designed for lab use up to 30°C ambient
- › Input power is factory-configurable via an ATX supply or a VITA 62 power slot



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The XPand1011 system is a low-cost development platform for conduction-cooled 6U VPX cards. It supports up to two 0.8 in. or 1.0 in. 6U VPX boards and utilizes RTMs to simplify I/O access and support 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. Power can be provided via an ATX power supply or via the VPX VITA 62 power supply slot.

The XPand1011 provides a connector for accessing utility plane I/O to enable chaining together multiple systems. The XPand1011 dissipates heat from the conduction-cooled modules to sidewall heat exchangers, where it is quietly dissipated to the ambient environment by forced-air cooling.

The XPand1011 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.

X-ES

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VPX Slot Features

- Two 6U VPX-REDI (VITA 48.2) 0.8 in. or 1.0 in. pitch slots
- Two 6U VPX (VITA 46.10) Rear Transition Module (RTM) slots
- One VITA 62 3U VPX or 6U VPX power supply slot
- Configurable P0 I/O (NVMRO, geographical addresses, SYSCON) via DIP switches
- Utility plane I/O access for chaining multiple systems

Power

- ATX or VITA 62 3U VPX or 6U VPX power slot configurations available
- Per-slot voltage monitoring via I²C ADCs and test loops
- Per-slot current monitoring via I²C ADCs and test loops

Physical Characteristics

- Dimensions: 17.5 in. (L) x 5.6 in. (W) x 9.3 in. (H)
- 17 lbs. with backplane

