

XPand1015

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 Rear Transition Modules (RTMs) for I/O access
- ▶ 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
- ▶ Options for Quad Fat Pipe (QFP) J2 interconnects or J2 I/O slot isolation with full I/O pass-through to RTM slots
- ▶ Customizable with X-ES and third-party components
- ▶ Power and reset switches
- ▶ Power and reset LEDs
- ▶ Designed for lab use up to 30°C ambient
- ▶ Input power via included VITA 62 power supply
- ▶ Includes external XPM9001 power supply



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The XPand1015 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. The XPand1015 can be configured as two I/O isolated slots, with all I/O from the payload passed to the RTM. Optionally, the XPand1015 can be configured with Quad Fat Pipe (QFP) J2 interconnects, with the remaining I/O from the payload passed to the RTM. Power and reset LEDs are provided for system status. A momentary push button is provided for reset, and a switch is provided to enable DC power.

Power is provided via the included 6U VPX VITA 62 power supply. An included external XPM9001 power supply plugs into a standard 120 V wall outlet to produce 28 V DC to power the VITA 62 supply.

The XPand1015 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 XPand1015 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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Extreme Engineering Solutions

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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) RTM slots
- One 6U VPX VITA 62 power supply slot
- Options for Quad Fat Pipe (QFP) J2 interconnects or J2 I/O slot isolation with full I/O pass-through to RTM slots
- Configurable P0 I/O (NVMRO, geographical addresses, SYSCON) via DIP switches

Power

- Included 6U VPX VITA 62 power supply
- Included external XPm9001 power supply

Physical Characteristics

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

