

XPand1007

Two-Slot 3U VPX Development Platform for Conduction-Cooled Modules with RTM I/O

- › Development platform for two conduction-cooled 3U 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 Dual Fat Pipe (DFP) J1 interconnects or J1 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 XPand1007 system is a development platform for conduction-cooled 3U VPX cards. It supports up to two 0.8 in. or 1.0 in. 3U VPX boards and utilizes RTMs to simplify I/O access and support rapid system prototyping. The XPand1007 can be configured as two I/O isolated slots, with all I/O from the payload passed to the RTM. Optionally, the XPand1007 can be configured with Dual Fat Pipe (DFP) J1 interconnects, with the remaining I/O from the payload passed to the RTM. Power and reset LEDs are provided for system status. Switches allow configuration for the included VITA 62 power supply, as well as reset and other I/O signals.

Power is provided via the included 3U VPX VITA 62 power supply. An included external XPm9001 power supply plugs into a standard 120 V wall outlet to produce 24 V DC to power the VITA 62 supply.

The XPand1007 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 XPand1007 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.



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VPX Slot Features

- Two 3U VPX-REDI (VITA 48.2) 0.8 in. or 1.0 in. pitch slots
- Two 3U VPX (VITA 46.10) RTM slots
- One 3U VPX VITA 62 power supply slot
- Options for Dual Fat Pipe (DFP) J1 interconnects or J1 I/O slot isolation with full I/O pass-through to RTM slots
- Configurable I/O (NVMRO, geographical addresses, SYSCON) via DIP switches
- VBAT supplied by VITA 62 supply, battery, or external power source.

Power

- Included 3U VPX VITA 62 power supply
- Included external XPm9001 power supply

Physical Characteristics

- Dimensions: 11.9 in. (L) x 5.6 in. (W) x 9.3 in. (H)
- 10 lbs. with backplane

