

XPand1303

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

- ▶ Development platform for air-cooled modules
- ▶ Supports eight 0.8 in. or 1.0 in. pitch air-cooled VPX modules
- ▶ Standard VPX configurations available
- ▶ Compatible with multiple VITA 65 OpenVPX™ slot profiles
- ▶ Customizable with X-ES and third-party components
- ▶ Rear Transition Module (RTM) support for maximum I/O flexibility
- ▶ Removable side panels for debug access
- ▶ Up to 20 CFM of airflow per slot
- ▶ 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
- ▶ 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 XPand1303 is a low-cost, flexible, development platform. This platform supports up to eight 0.8 in. or 1.0 in. pitch air-cooled VPX (VITA 48.1) 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. Up to 20 CFM of airflow is provided per slot.

X-ES platforms, including the XPand1303, 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 and debug access are provided for reset and a switch is provided for DC power enable.

The XPand1303 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

Extreme Engineering Solutions

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Embedded Solutions”*

Extreme Engineering Solutions

9901 Silicon Prairie Parkway • Verona, WI 53593
Phone: 608.833.1155 • Fax: 608.827.6171
sales@xes-inc.com • <https://www.xes-inc.com>

Form Factor

- 3U VPX (VITA 48.1) 0.8 in. or 1.0 in. pitch
- 3U VPX (VITA 46.10)

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 20 CFM per slot
- Standard configuration of 10 CFM per slot
- Removable side panels
- VITA 48.1 slot blockers (optional)

Physical Characteristics

- Dimensions: 11.6 in. (L) x 13.5 in. (W) x 13.5 in. (H)
- 19 lbs. with backplane and power supply

