

XChange3000

Conduction- or Air-Cooled 3U VPX-REDI XMC/PMC Carrier Card

- › 3U VPX carrier card
- › Conduction or air cooling
- › Gen3 PCI Express Switch
- › x4 PCI Express XMC interface
- › 32-bit, 66 MHz PCI PMC interface
- › P14 and P16 I/O routing
- › No drivers needed



XChange3000

The XChange3000 is a 3U VPX-REDI module supporting a single-width XMC or PrPMC card. The XChange3000 provides easy integration of standard mezzanine cards into modern VPX backplanes.

Both XMC and PrPMC interfaces are active simultaneously.

X-ES

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

VPX

- x4 PCI Express on port A
- x4 PCI Express on port B
- Either port A or port B may be non-transparent

PMC

- 66 MHz, 32-bit PCI
- P14 to P2 I/O routing

XMC

- x4 PCI Express interface
- XMC may be root

Physical Characteristics

- 3U VPX form factor
- Dimensions: 100 mm x 160 mm, 10 mm stacking height

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1, 3, 5
- Conformal coating available as an ordering option

Power Requirements

A version not requiring 12 V is available.

- 3.3 V, 0.045 A, 0.15 W
- 5 V, 0.85 A, 4.25 W
- +12 V, <1 mA, <10 mW

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C (maximum)
Vibration	0.002 g ² /Hz (maximum), 5 to 2000 Hz	0.04 g ² /Hz (maximum), 5 to 2000 Hz	0.1 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing

