

XChange3011

Redundant Gigabit Ethernet switch

- ▶ Supports two Gigabit Ethernet links to each of four VPX cards
- ▶ Fully independent Ethernet switch fabrics
- ▶ Rugged front panel connector with two Ethernet ports for deployment
- ▶ Two non-rugged (RJ45) front panel Ethernet connectors for ease of development
- ▶ Four serial ports for VPX cards via rugged front panel connector



XChange3011

The XChange3011 provides two independent Gigabit Ethernet switches. These Ethernet fabrics allow VPX cards within the system to communicate and also have access to an outside local area network. A rugged front panel connector is provided for deployment, and non-rugged RJ45 jacks are also provided to allow easy access during development.

When used with the XTend4010 backplane, each of the four VPX slots has access to the two Gigabit Ethernet switch fabrics. Additionally, a PrPMC or XMC on the XChange3010 has 10/100-Mbps Ethernet access to each of the two Ethernet switch fabrics.

X-ES

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3225 Deming Way, Suite 120 • Middleton, WI 53562

Phone: 608.833.1155 • Fax: 608.827.6171

sales@xes-inc.com • <http://www.xes-inc.com>

Ethernet

- Two eight-port 10/100/1000-Mbps Ethernet switches

Serial

- Four differential serial ports from the backplane to a rugged connector on the front panel
- One Tx pair and Rx pair per port is supported (optional non-differential serial)
- One ground pin is provided for each port.

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): Level 1, Level 2, Level 3, Level 4, Level 5
- Humidity: 0% to 85% non-condensing

Power Requirements

- Maximum power consumption: 11 W

Ruggedization Level	Level 1	Level 2	Level 3	Level 4	Level 5
Cooling Method	Standard Air-Cooled	Extended Air-Cooled	Rugged Air-Cooled	Conduction-Cooled	Conduction-Cooled
Operating Temperature	0 to +55 °C	0 to +65 °C	-40 to +70 °C	-40 to +70 °C	-40 to +85 °C
Vibration	0.002 g ² /Hz	0.002 g ² /Hz	0.04 g ² /Hz	0.1 g ² /Hz	0.1 g ² /Hz
Shock	20 g	20 g	40 g	40 g	40 g
Storage Temperature	-40 to +105 °C	-40 to +105 °C	-55 to +105 °C	-55 to +105 °C	-55 to +105 °C

