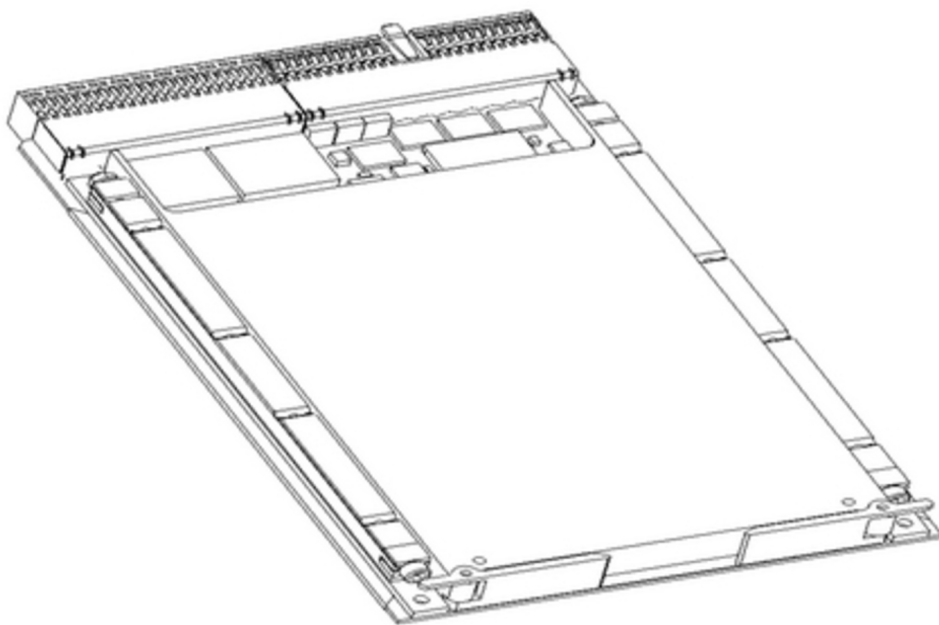


XChange3011

Redundant Gigabit Ethernet switch

- › Supports two Gigabit Ethernet links to each of four VPX cards
- › Fully independent Ethernet switch fabrics
- › Provides a rugged front panel connector with two Ethernet ports for deployment
- › Provides two non-rugged (RJ45) front panel Ethernet connectors for ease of development
- › Provides 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.

The XChange3011 allows a system designer to choose robust and flexible Ethernet to be used as a VPX interconnect.

X-ES

Extreme Engineering Solutions

...Always Fast

Extreme Engineering Solutions

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ETHERNET

- Provides two eight-port 10/100/1000-Mbps Ethernet switches

SERIAL

- Routes 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, though the wire use may be changed and thus may also be used for not-differential serial as well
- In addition to the Tx and Rx pairs, one ground pin is provided for each port.

ENVIRONMENTAL REQUIREMENTS

- Operating temperature: 0 to 70 °C (ambient when air cooled)
- Operating temperature: -40 to 85 °C (at thermal rail when conduction cooled)
- Humidity: 0% to 85%
- Storage temperature: -40 to 85 °C

RUGGEDIZATION

- Air-cooled: VITA 47 Class V1, 20g shock
- Conduction-cooled: VITA 47 Class V3, 40g shock

POWER REQUIREMENTS

- +3.3 V, 0.1 A, 0.1 W
- +5.0 V, 2.2 A, 11.0 W
- +12.0 V, 0.1 A, 0.1 W
- -12.0 V, 0.00 A, 0.0 W

