

XChange3030

3U VPX 40G Ethernet Switch with Layer 2 Switching

- › Non-blocking, full wire-speed Ethernet switch
- › Layer 2 switching with extensive IEEE protocol and IETF RFC support
- › Six 40GBASE-KR4 40 Gigabit Ethernet ports
- › Six 10GBASE-KR 10 Gigabit Ethernet ports
- › Two 10GBASE-T 10 Gigabit Ethernet ports
- › One front panel optical Ethernet port
- › Ruggedized Enhanced Design Implementation (REDI) per VITA 48
- › Conduction cooling
- › IPv4 and IPv6 support
- › Support for jumbo frames up to 12 kB
- › IEEE 1588v2 transparent clocking support
- › SSH and SNMP server support
- › Optional VITA 46.11 Tier 1 and Tier 2 IPMI Controller (IPMC)



XChange3030

The XChange3030 is a conduction-cooled 3U VPX Ethernet switch module. The XChange3030 provides six backplane 40GBASE-KR4 Ethernet ports, six backplane 10GBASE-KR Ethernet ports, two backplane 10GBASE-T Ethernet ports, and one front panel optical Ethernet port.

The XChange3030 delivers full wire-speed across all of its ports and supports jumbo packets up to 12 kB. It also supports IPv6, Energy Efficient Ethernet™ (EEE), and a comprehensive set of IETF RFCs and IEEE protocols.

As a fully managed Layer 2 switch, the XChange3030 has support for features such as VLANs (IEEE 802.1Q), LACP, STP, RSTP, PVRST+ MSTP, SNMP, flow control, port mirroring, port authentication (IEEE 802.1x), Quality of Service (QoS), ACL, IGMP, MLD, LLDP, and static routing.

X-ES

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Ethernet

- Six 40GBASE-KR4 Ethernet ports (can be configured as 24 10GBASE-KR)
- Six 10GBASE-KR Ethernet ports
- Two 10GBASE-T Ethernet ports
- One front panel optical Ethernet port
- IPv4 and IPv6 support
- Support for jumbo frames up to 12 kB
- Advanced cable open/short detection
- Energy Efficient Ethernet™ (EEE) support
- Non-blocking, full wire-speed
- IEEE 1588v2 transparent clocking support

XMC

- One XMC site
- J14 RS-232 I/O routed to P1

Ethernet Management Features

- Layer 2 switching
- Extensive IEEE protocol and IETF RFC support
- Configuration through CLI or SNMP
- 4 MB packet buffer

Additional Features

- Optional VITA 46.11 Tier 1 and Tier 2 IPMI Controller (IPMC)

Physical Characteristics

- 3U VPX form factor
- Dimensions: 100 mm x 160 mm
- 0.8 in. or 1.0 in. pitch
- Compliant to the VITA 48.2 Type 1, Two-Level Maintenance (2LM) standard (optional)

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

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

Power Requirements

Power will vary based on configuration and usage. Please consult factory.

Ruggedization Level	Level 5
Cooling Method	Conduction-Cooled
Operating Temperature	-40 to +85°C (board rail surface)
Storage Temperature	-55 to +105°C (maximum)
Vibration	0.1 g ² /Hz (maximum), 5 to 2000 Hz
Shock	40 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing

