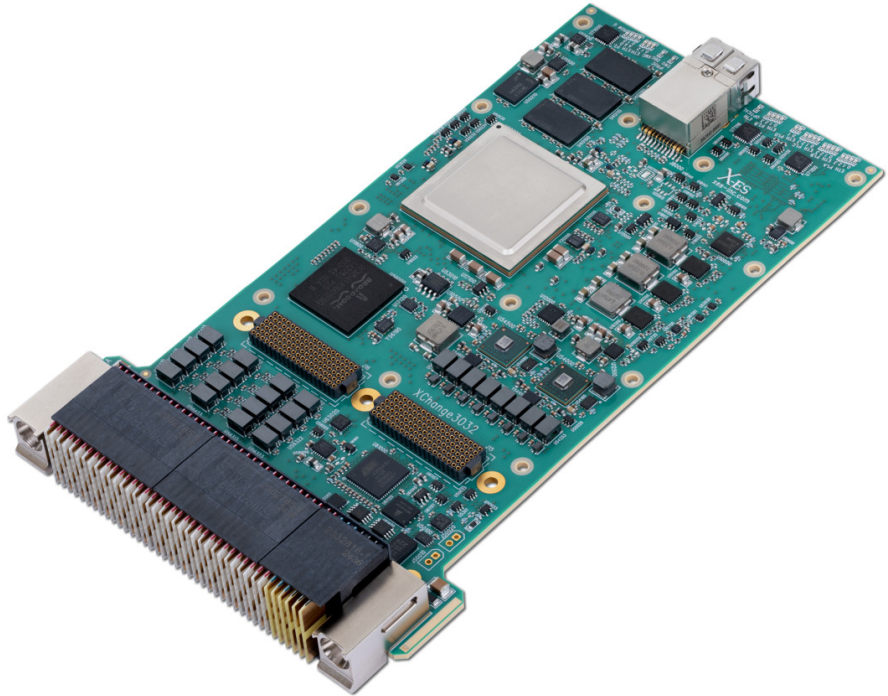


XChange3032

3U VPX 40 Gigabit Ethernet Switch with Layer 2 Switching and Optional Layer 3 Routing

- › Non-blocking, full wire-speed Ethernet switch
- › Layer 2 switching with extensive IEEE protocol and IETF RFC support
- › Layer 3 routing when paired with the XChange6300 Cisco IOS-XE® Gigabit Ethernet Embedded Services Router (optional)
- › Three 40GBASE-KR4 Ethernet ports
- › Ten 10GBASE-KR Ethernet ports
- › Two 10GBASE-T Ethernet ports
- › Four 1000BASE-T Ethernet ports
- › One front panel optical Ethernet port (optional)
- › Ruggedized Enhanced Design Implementation (REDI) per VITA 48
- › Conduction cooling
- › IPv4 and IPv6 support
- › Support for jumbo frames up to 10 kB
- › IEEE 1588v2 transparent clocking support
- › SSH and SNMP server support
- › XMC site (optional)
- › VITA 46.11 Tier 1 and Tier 2 IPMI Controller (IPMC)
- › SOSA-aligned to AMPS profile MODA3-16.4.16-1-F2C-(3E8, 2E6, 2E3, 4E7)-(6E7, 1E7-E3) <N-E11-N-N>
- › Compatible with SOSA payload profile ANSI/VITA 65.0 switch slot profile SLT3-SWH-6F8U-14.4.15



XChange3032

The XChange3032 is a conduction-cooled 3U VPX Ethernet switch module. The XChange3032 provides three backplane 40GBASE-KR4 Ethernet ports, 10 backplane 10GBASE-KR Ethernet ports, two backplane 10GBASE-T Ethernet ports, four backplane 1000BASE-T Ethernet ports, and one optional front panel optical Ethernet port.

The XChange3032 delivers full wire-speed across all of its ports and supports jumbo frames up to 10 kB. It also supports IPv6 and a comprehensive set of IETF RFCs and IEEE protocols.

As a fully managed Layer 2 switch, the XChange3032 supports 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, and LLDP.

The XChange3032 can also optionally host an XChange6300 Cisco IOS-XE® Gigabit Ethernet Embedded Services Router. The XChange3032 is SOSA-aligned to AMPS profile MODA3-16.4.16-1-F2C-(3E8, 2E6, 2E3, 4E7)-(6E7, 1E7-1E3) <N-E11-N-N> and compatible with SOSA payload profile ANSI/VITA 65.0 switch slot profile SLT3-SWH-6F8U-14.4.15.



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Ethernet

- Three 40GBASE-KR4 Ethernet ports (can be configured as 12 10GBASE-KR)
- Ten 10GBASE-KR Ethernet ports
- Two 10GBASE-T Ethernet ports
- Four 1000BASE-T Ethernet ports
- One front panel optical Ethernet port (optional) (default speed 10 Gbps, contact factory for 1 Gbps configuration)
- IPv4 and IPv6 support
- Support for jumbo frames up to 10 kB
- Non-blocking, full wire-speed
- IEEE 1588v2 transparent clocking support

Ethernet Management Features

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

XMC (Optional)

- One XMC site (available on configurations with integrated mezzanine card)
- One RS-232 serial port from J16 to P1
- One 2500BASE-X Ethernet port and two 1000BASE-X Ethernet ports from J16 connect to XChange3032 when paired with XChange6300 Embedded Services Router
- Two optional 1000BASE-T Ethernet ports can be routed to P2 to bypass switch (contact factory for more information)

Additional Features

- VITA 46.11 Tier 1 and Tier 2 IPMI Controller (IPMC)
- Optional factory configuration allows XChange6300 to route 1000BASE-T Ethernet ports to P2

Power Requirements

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

Physical Characteristics

- 3U VPX form factor
- SOSA-aligned to AMPS profile MODA3-16.4.16-1-F2C-(3E8,2E6,2E3,4E7)-(6E7,1E7-1E3)<N-E11-N-N>
- Compatible with SOSA payload profile ANSI/VITA 65.0 switch slot profile SLT3-SWH-6F8U-14.4.15
- 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, contact X-ES for details)

Environmental Requirements

- Contact factory for appropriate board configuration based on environmental requirements.
- Supported ruggedization levels (see chart below): 5
 - Storage temperature limited to 100°C with optical Ethernet port placed, 105°C without
 - Conformal coating available as an ordering option

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

