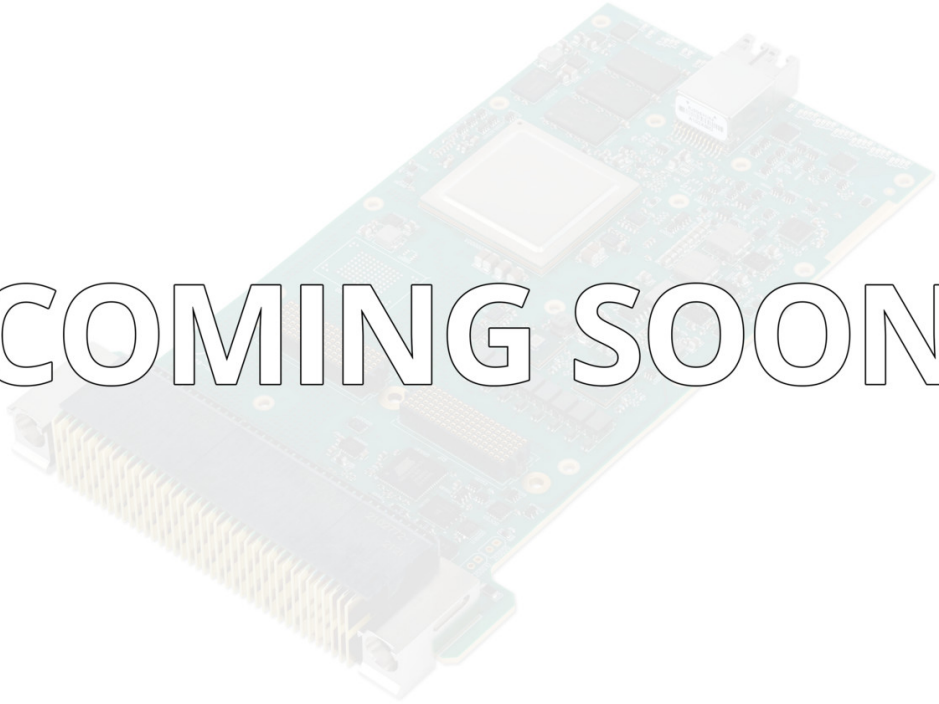


XChange3050

3U VPX 100 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)
- ▶ Six 100GBASE-KR4 Ethernet ports
- ▶ Six 25GBASE-KR Ethernet ports
- ▶ Two 10GBASE-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, Tier 2, and Tier 3 IPMI Controller (IPMC)
- ▶ SOSA-aligned to AMPS profiles MODA3-16.4.16-1-F2C-(6E18/24E15)-(5E15,1E6-E6) <N-E17/E11-N-N> and MODA3-16.4.16-1-F2C-(6E18/24E15)-(6E15,1E6-E6) <N-N-N-N> (contact factory for details and other supported AMPS profiles)



COMING SOON

XChange3050

The XChange3050 is a conduction-cooled 3U VPX Ethernet switch module. The XChange3050 provides six backplane 100GBASE-KR4 Ethernet ports, six backplane 25GBASE-KR Ethernet ports, two backplane 10GBASE-T Ethernet ports, and an optional front panel optical Ethernet port.

The XChange3050 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 XChange3050 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 XChange3050 can also optionally host an XChange6300 Cisco IOS-XE® Gigabit Ethernet Embedded Services Router. The XChange3050 is SOSA-aligned to AMPS profiles MODA3-16.4.16-1-F2C-(6E18/24E15)-(5E15,1E6-E6)<N-E17/E11-N-N> and MODA3-16.4.16-1-F2C-(6E18/24E15)-(6E15,1E6-E6)<N-N-N-N>. Contact factory for details and other supported AMPS profiles.



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*“Fast, Flexible, Customer-Focused
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Ethernet

- Six 100GBASE-KR4 Ethernet ports (can be configured as 24 25GBASE-KR)
- Six 25GBASE-KR Ethernet ports
- Two 10GBASE-T Ethernet ports
- One front panel optical Ethernet port (optional)
- IPv4 and IPv6 support
- Support for jumbo frames up to 10 kB
- Non-blocking, full wire-speed
- IEEE 1588v2 transparent clocking support
- Temperature-compensated crystal oscillator (TCXO) for precise timing as an IEEE 1588v2 grandmaster
- Pulse per second (PPS) input for optional IEEE 1588v2 synchronization to an external reference

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 from XChange6300 to XChange3050 and two 1000BASE-T Ethernet ports from J16 to P2 when paired with XChange6300 Cisco IOS-XE® Embedded Services Router

Additional Features

- VITA 46.11 Tier 1, Tier 2, and Tier 3 IPMI Controller (IPMC)

Power Requirements

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

Physical Characteristics

- 3U VPX form factor
- SOSA-aligned to AMPS profiles MODA3-16.4.16-1-F2C-(6E18/24E15)-(5E15,1E6-E6)<N-E17/E11-N-N> and MODA3-16.4.16-1-F2C-(6E18/24E15)-(6E15,1E6-E6)<N-N-N-N> (contact factory for details and other supported AMPS profiles)
- Dimensions: 100 mm x 160 mm
- 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
 - 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

