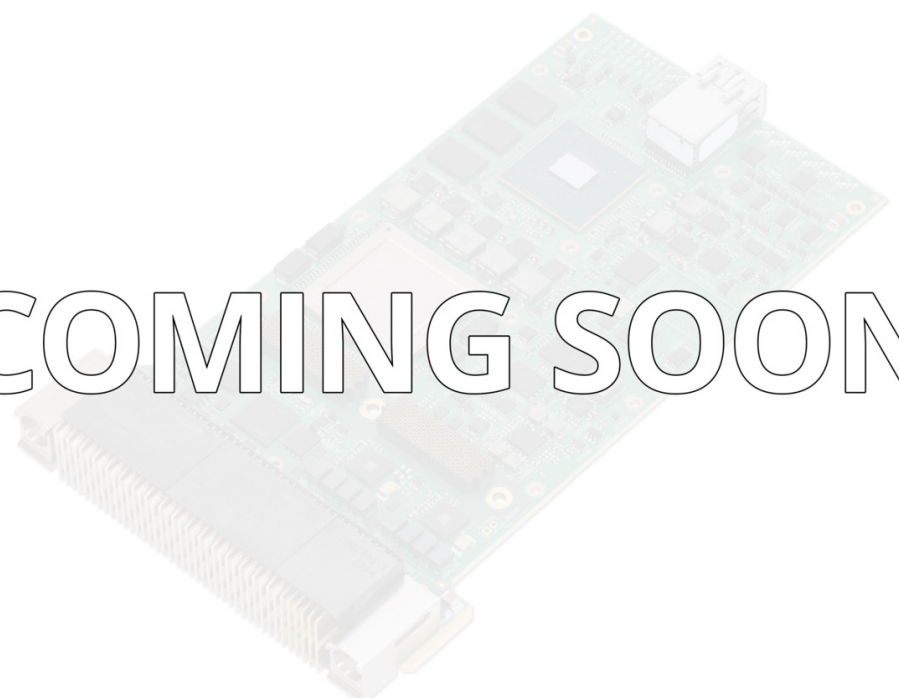


XChange3051

3U VPX 100 Gigabit Ethernet Switch with Layer 2 Switching and SOSA-Aligned Support

- › Non-blocking, full wire-speed Ethernet switch
- › Layer 2 switching with extensive IEEE protocol and IETF RFC support
- › Six 100GBASE-KR4 or 40GBASE-KR4 Ethernet ports (software-configurable on a per-quad basis as 24 25GBASE-KR/10GBASE-KR/1000BASE-KX)
- › Up to eight dedicated 25GBASE-KR Ethernet ports
- › Up to one 10GBASE-T Ethernet port
- › One front panel optical Ethernet port (optional) supporting 25GBASE-SR/10GBASE-SR (user configurable)
- › One SOSA maintenance serial port, software configurable as LVCMOS or RS-232
- › Ruggedized Enhanced Design Implementation (REDI) per VITA 48
- › Conduction cooling
- › IPv4 and IPv6 support
- › Support for jumbo frames up to 10 kB
- › IEEE 1588v2 (PTP) transparent clocking support
- › SSH and SNMP server support
- › Built-In Test (BIT) support available (contact factory for details)
- › VITA 46.11 Tier 1, Tier 2, and Tier 3 IPMI Controller (IPMC)
- › SOSA-aligned build options to slot profiles SLT3-SWH-6F1U7U-14.4.14 (including ground wafer) and SLT3-SWH-6F8U-14.4.15



COMING SOON

XChange3051

The XChange3051 is a conduction-cooled 3U VPX Ethernet switch module. The XChange3051 provides six backplane 100GBASE-KR4 Ethernet ports, up to eight dedicated backplane 25GBASE-KR Ethernet ports, up to one backplane 10GBASE-T Ethernet port, and an optional front panel optical Ethernet port. These Gigabit Ethernet I/O options are software-configurable on a per-quad basis with additional software-controlled multiplexers, providing maximum flexibility without requiring factory-generated images for each new I/O configuration.

The XChange3051 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 XChange3051 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 XChange3051 also provides SOSA-aligned build options to slot profiles SLT3-SWH-6F1U7U-14.4.14 (including the ground wafer) and SLT3-SWH-6F8U-14.4.15.



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Ethernet

- Six 100GBASE-KR4 or 40GBASE-KR4 Ethernet ports (software-configurable on a per-quad basis as 24 25GBASE-KR/10GBASE-KR/1000BASE-KX)
- Up to eight dedicated 25GBASE-KR Ethernet ports
- Up to one 10GBASE-T Ethernet port
- One front panel optical Ethernet port (optional) supporting 25GBASE-SR/10GBASE-SR (user configurable)
- IPv4 and IPv6 support
- Support for jumbo frames up to 10 kB
- Non-blocking, full wire-speed
- IEEE 1588v2 (PTP) transparent clocking support
- Temperature-compensated crystal oscillator (TCXO) for precise timing as an IEEE 1588v2 (PTP) grandmaster
- Pulse per Second (PPS) input for optional IEEE 1588v2 (PTP) 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

Additional Features

- VITA 46.11 Tier 1, Tier 2, and Tier 3 IPMI Controller (IPMC)
- Built-In Test (BIT) support available (contact factory for details)

Power Requirements

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

Physical Characteristics

- 3U VPX form factor
- SOSA-aligned build options to slot profiles SLT3-SWH-6F1U7U-14.4.14 (including ground wafer) and SLT3-SWH-6F8U-14.4.15
- 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

