

XPand6207

End of Life

Rugged Small Form Factor (SFF) COTS 10 Gigabit Ethernet Switch and Router with Cisco IOS®

Please contact X-ES Sales

- ▶ Rugged 10 Gigabit Ethernet switch
- ▶ Six 10GBASE-T 10 Gigabit Ethernet ports
- ▶ Twelve 10/100/1000BASE-T Gigabit Ethernet ports
- ▶ XPedite5205 Cisco IOS® Gigabit Ethernet Embedded Services Router (optional)
- ▶ Layer 2 switching and Layer 3 routing management with extensive IEEE protocol and IETF RFC support (optional)
- ▶ VICTORY Infrastructure Switch and Router support (optional)
- ▶ Small Form Factor (SFF) sub-½ ATR system
- ▶ Conduction- or convection-cooled chassis
- ▶ Physical dimensions of 8.90 in. (L) x 4.88 in. (W) x 3.61 in. (H)
- ▶ Includes two XChange3018 10 Gigabit Ethernet switches
- ▶ Integrated 28 VDC power supply
- ▶ MIL-STD-461E/F EMI filtering
- ▶ Environmentally sealed
- ▶ Circular connector support



XPand6207

The XPand6207 is a Commercial-Off-The-Shelf (COTS) Rugged 10 Gigabit Ethernet switch and router that maximizes performance while minimizing SWaP. With a compact design and weighing less than nine pounds, the XPand6207 is the smallest available truly rugged 10 Gigabit Ethernet switch to support this amount of networking performance and functionality. The XPand6207 is the first rugged Ethernet switch to support 10 Gigabit Ethernet using the 10GBASE-T protocol. This eliminates the need for large and expensive optical transceivers to support 10 Gigabit Ethernet between enclosures.

The XPand6207 provides a SWaP-optimized alternative to traditionally larger slot-based systems; it is an actual Small Form Factor (SFF) system based on two COTS XChange3018 3U VPX 10 Gigabit Ethernet switches. The XChange3018 delivers full wire-speed across all of its ports and supports jumbo packets up to 12 kB. It supports IPv6 and a comprehensive set of IETF RFCs and IEEE protocols. The XPedite5205 Cisco IOS® Router XMC can be installed on the XChange3018 to provide highly secure data, voice, and video communications to stationary and mobile network nodes. The XChange3018 optionally supports compliance with the VICTORY specification as an Infrastructure Switch and Router.

This fully ruggedized system is designed to meet the rigorous standards of MIL-STD-810 and DO-160, while integrating the latest power-saving and performance-enhancing technology. The heat from the internal conduction-cooled modules is conducted to sidewall heat exchangers, where it is dissipated to the ambient environment by convection cooling or to an attached cold plate by conduction cooling. The system includes an integrated 28 VDC power supply and MIL-STD-461 EMI filtering.

X-ES

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Physical Characteristics

- Dimensions: 8.90 in. (L) x 4.88 in. (W) x 3.61 in. (H)
- Weighs approx. 8 lbs.

Ethernet I/O

- Two XChange3018 3U VPX Gigabit Ethernet switches
- Six 10GBASE-T 10 Gigabit Ethernet ports
- Twelve 10/100/1000BASE-T Gigabit Ethernet ports
- IPv4 and IPv6 support
- Support for jumbo frames up to 12 kB
- Advanced cable open/short detection
- Non-blocking, full wire-speed
- IEEE 1588v2 and SyncE support (optional)

Ethernet Management Features (Optional)

- Layer 2 switching and Layer 3 routing
- Extensive IEEE protocol and IETF RFC support
- Configuration through CLI or SNMP
- 196 MB packet buffer
- VICTORY Infrastructure Switch and Router support
- XPedite5205 Cisco IOS® Gigabit Ethernet Embedded Services Router XMC

Thermal

- The system is designed and tested to operate in ambient temperatures down to -40°C and extreme high temperatures. Maximum operating temperature is dependent on configuration and usage. Contact X-ES for further information.

Power Supply

- Integrated power supply
- MIL-STD-704 28 VDC input voltage support
- MIL-STD-461 EMI filtering
- Additional power supply options available

