X-Pedition™ ER16-OS16-01 10-Gigabit Ethernet Module

- Single-slot line card provides one port of IEEE 802.3ae 10-Gigabit Ethernet
- Enables Quality of Service, 100% availability and advanced security
- Available optics provide multimode fiber, single mode fiber, long-haul single mode fiber for distances up to 40 KM and mixed mode MMF or SMF connectivity

Data Sheet

- **Quality of Service for traffic control across the enterprise**
  - — Allocate bandwidth to users on a per-port basis asynchronously as low as 1 Kbps
  - — Assign traffic to queues based on application, user, or incoming priority tagged packets
  - — Select Strict Priority or Weighted Fair Queuing on a per-port basis
  - — Supports policy-based routing
- **100% availability features**
  - — Availability by design, with support for hot swappable and redundant power supplies, switch fabrics and control modules
  - — Industry-standard feature support for link aggregation and router redundancy
  - — Premiere load balancing for 100% content availability
- **Secure Networks architecture**
  - — Access Control Lists and traffic filters can be applied without compromising performance
  - — Management authorization and authentication via RADIUS
- **Total Network Visibility**
  - — Full SNMP, RMON 1 and 2 support

Powerful 10-Gigabit Ethernet for Mission-Critical Networks

The X-Pedition ER16-OS16-01 10-Gigabit Ethernet module for the X-Pedition ER16 supports true core routing at 10-Gigabit Ethernet speeds and enables full-function Layer 2/3/4 switching with unparalleled connectivity options, as well as services such as advanced Quality of Service, bandwidth provisioning, and advanced security.

The X-Pedition ER16-OS16-01 is a single-slot line card that offers one modular port of IEEE 802.3ae standards-based 10-Gigabit Ethernet connectivity via optical interfaces. The optical interfaces themselves are based on fully compliant IEEE 802.3ae SC duplex fiber optic connectors. These 10GBASE–XX optics provide support for multimode fiber (SR), single mode fiber (LR), long-haul single mode fiber for distances up to 40KM (ER) and mixed mode MMF or SMF (LX4).

The backplane design of the X-Pedition ER16 guarantees investment protection by anticipating the development of technologies such as 10-Gigabit Ethernet providing much needed technology future-proofing capabilities.

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Specifications

Technical Specifications

MTBF
>175,000 hr/> 19 years

In-Band Management
Remote SNMP via NetSight™

Physical Specifications

Dimensions
48.57 cm (19.125") H x 35.87 cm (14.125") D x 2.75 cm (1.03") W

Weight
4.5 kg (10 lbs)

Environmental Specifications

Operating Temperature
0º C to +40º C (32º F to 104º F)

Non-Operating Temperature
-40º C to +73º C (-40º F to 164º F)

Operating Humidity
10% to 90% (non-condensing)

Power Consumption
140 Watts

Agency and Standards Specifications

Safety
UL 60950, CSA 60950, EN 60950, EN 60825 and IEC 60950

Electromagnetic Compatibility
47 CFR Parts 2 and 15, CSA C108.8, EN 555022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, and VCCI V-3

RFCs/MIBs
IP Routing: RIPv1/v2, OSPF, BGP-4
IPX Routing: RIP, SAP
Multicast: IGMP, DVMRP, PIM-SM
QoS: Application level, 802.1p
IEEE 802.1p—Traffic Prioritization
IEEE 802.1Q—VLAN Trunking
IEEE 802.1D—Spanning Tree
IEEE 802.1w—Rapid Spanning Tree
IEEE 802.3—10 Mbps Ethernet
IEEE 802.3ae—10gbE
IEEE 802.3u—100BASE-T Ethernet
IEEE 802.3x—Full Duplex Ethernet
IEEE 802.3z—1000 Mbps Ethernet
RFC 1213—MIB-2
RFC 1493—Bridge MIB
RFC 1643—Ethernet like Interface MIB
RFC 1771—BGP-4
RFC 1657—BGP-4 MIB
RFC 1058—RIP v1
RFC 1723—RIP v2
RFC 1724—RIP v2 MIB
RFC 1583—OSPF v2
RFC 1850—OSPF v2 MIB
RFC 1812—Router Requirements
RFC 2096—IP Forwarding MIB
RFC 1349—Type of Service in the IP Suite
RFC 1519—CIDR
RFC 2338—VRRP
RFC 2391—LSNAT
RFC 2618—Radius-Auth-Client-MIB
RFC 2737—Entity MIB
RFC 2790—Host Resource MIB
RFC 1157—SNMP
RFC 2819—RMON 1
RFC 2021—RMON 2
RFC 1332—PPP IP Control Protocol (IPCP)
RFC 1548—The Point-to-Point Protocol (PPP)
RFC 1552—PPP IPX Control Protocol (IPXCP)
RFC 1570—PPP LCP Extensions
RFC 1717—PPP Multilink Protocol
RFC 1662—PPP in HDLC-like Framing
RFC 1661—PPP (Point-to-Point Protocol)
RFC 1638—PPP Bridging Control Protocol
RFC 1293—Inverse ARP
RFC 1315—MIB for Frame Relay DTEs
RFC 1490—Multiprotocol Interconnect over FR

Frame Relay Forum and ITU Standards: FRF.1.1, FRF.3.1, Q.922/ANSI T1.618, Q.933, I.122/ANSI T1S1 Annex D/ANSI T1.617

Ordering Information

ER16-OS16-01
Single-slot 10-Gigabit Ethernet switch routing module for the X-Pedition ER16; single-port configuration, accepts physical modules for connectivity

Warranty

As a customer-centric company, Enterasys is committed to providing the best possible workmanship and design in our product set. In the event that one of our products fails due to a defect in one of these factors, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired as soon as possible.

Service and Support

Enterasys understands that superior service and support is a critical component of ***Networks that Know.***™ The Enterasys **SupportNet Portfolio**—a suite of innovative and flexible service and support offerings—completes the Enterasys solution. SupportNet offers all the post-implementation support services you need—online, onsite or over the phone—to maintain your network availability and performance.

Additional Information

For additional information on the X-Pedition, visit **enterasys.com/products/routing**

Contact Information

Contact Enterasys Sales at **877-801-7082** or **enterasys.com/corporate/contact/contact-sales.html**

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