X-Pedition™ ER16-OS26-01
10-Gigabit Ethernet Module

- Provides 10-Gigabit Ethernet connectivity
- Enables QoS, bandwidth provisioning and advanced security
- Assures the performance of bandwidth-hungry applications like audio/video multicasting, Internet telephony and interactive transaction processing

High-performance 10-Gigabit Ethernet
- 2-slot line card for one modular port of IEEE 802.3ae 10-Gigabit Ethernet connectivity
- Uses IEEE 802.3ae compliant OC duplex fiber optic connections, provides one port of 1310nm Serial SMF connectivity enabling drive distances of between 2 km and 10 km

QoS for traffic control across the enterprise
- Allocate bandwidth to users on a per-port basis
- Assign traffic to queues based on application, user, or incoming priority-tagged packets
- Select Strict Priority or Weighted Fair Queueing on a per-port basis
- Supports policy-based routing

100% availability features
- Supports 802.3ad link aggregation
- Supports VRRP, Equal Cost Multi-Path (ECMP), and LACP
- Prevents Load Balancing for 100% availability
- Supports hot swappable, redundant power supplies

Security without performance degradation
- ACLs and traffic filters at Layer 2, 3, or 4 without compromising performance
- Management authentication/authorization via RADIUS

Powerful 10-Gigabit Ethernet for Mission-Critical Networks

The X-Pedition ER16-OS26-01 10-Gigabit Ethernet Module for the X-Pedition ER16 supports true core routing at 10-Gigabit Ethernet rates and enables services such as advanced Quality of Service, bandwidth provisioning, and advanced security.

The X-Pedition ER16-OS26-01’s two-slot line card offers one modular port of IEEE 802.3ae standards-based 10-Gigabit Ethernet connectivity, for up to seven 10-Gigabit Ethernet ports in a single ER16 chassis. Media support is provided via modular 10GBASE interface modules. These optical interfaces are based on IEEE 802.3ae-compliant OC duplex fiber optic connectors. The first available interface is the 10GBASE-LR, which provides one port of 1310nm Serial SMF connectivity and enables drive distances of between 2 km and 10 km. Future interface modules will support 850nm Serial MMF, 1310nm 4 Channel WDM and 1310nm Serial SMF.

The availability of 10-Gigabit Ethernet, combined with the X-Pedition’s Quality of Service features, means that organizations can assure the performance of bandwidth-hungry applications like real-time audio/video multicasting, Internet telephony, and interactive transaction processing. Organizations can also extend their infrastructure into the MAN and WAN, offering the same level of performance, security, capacity, and control to all enterprise users, regardless of application used or the user’s location.
### Specifications

#### Technical Specifications
- **MTBF**: 175,000 hr /> 19 years
- **In-Band Management**: Remote SNMP via NetSight™ Atlas

#### Physical Specifications
- **Dimensions**: 47.75 cm (18.00") H x 36.45 cm (14.35") D x 3.94 cm (1.57") W
- **Weight**: 4.34 kg (9 lbs, 15 oz)

#### Environmental Specifications
- **Operating Temperature**: 0°C to +40°C (32°F to 104°F)
- **Non-Operating Temperature**: -40°C to +73°C (-40°F to 164°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 C108.3, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, ANSI/CSA CISPR 22, and VCCI Y-3

#### Routing
- **IP Routing**: RIPv2, OSPF, BGP-4
- **IPX Routing**: RIP-SAP
- **Multicast**: IGMP, DVMRP, PIM-DM

#### QoS
- **Application level**: 802.1p

#### RFCs/MIbs
- 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 802.3ab—100Base-T Ethernet
- IEEE 802.3x—Full Duplex Ethernet
- IEEE 802.3z—1000 Mbps Ethernet
- RFC 1213—MBB-2
- RFC 1493—Bridge MB
- RFC 1643—Ethernet-like Interface MIB
- RFC 1771—BGP-4
- RFC 1657—BGP-4 MB
- RFC 1058—RIP + 1
- RFC 1723—RIP + 2
- RFC 1724—RIP + 2 MB
- RFC 1583—OSPF + 2
- RFC 1850—OSPF + 2 MB
- RFC 1812—Router Requirements
- RFC 2096—IP Forwarding MB
- RFC 1349—Type of Service in the IP Suite
- RFC 1319—CDR
- RFC 2335—YBIP
- RFC 2391—LSNAT
- RFC 2620—Radius-Auth-Client-MIB
- RFC 2737—Entity MB
- RFC 2703—Host Resource MB
- RFC 1157—SNMP
- RFC 2019—RMON 1
- RFC 2021—RMON 2
- RFC 1312—PPP IP Control Protocol (IPCP)
- RFC 1545—The Point-to-Point Protocol (PPP)
- RFC 1325—PPP IPCP Control Protocol (IPXCP)
- RFC 1570—PPP LCP Extensions
- RFC 1717—PPP Multilink Protocol
- RFC 1664—PPP in HDLC-like Framing
- RFC 1661—PPP (Point-to-Point Protocol)
- RFC 1656—PPP Bridging Control Protocol
- RFC 1293—Inverse ARP
- RFC 1115—MBI for Frame Relay DTEs
- RFC 1490—Multiprotocol Interconnect over FR

#### Frame Relay Forum and ITU Standards
- FRF 1.1, FRF 1.3, Q.922/ANS T1.610, Q.933, I.122/ANS TISI Annex D/ANS T1.617
Ordering Information

ER16-0926-01
Dual-slot 10-Gigabit Ethernet switch routing module for the X-Pedition ER16, single port configuration, accepts physical modules for connectivity

10GBASE-LR
1-port 1310nm Serial single-mode fiber interface for the ER16-0926-01
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 877-861-7082 or enterasys.com/corporate/contact/contact-sales.html

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