



## X-Pedition™ IPv6 Module

- Flexible, multiprotocol routing for the X-Pedition ER16, 8600 and 8000
- Ensures a smooth, gradual migration to IPv6, while providing interoperability with IPv4
- Delivers 1.6 Gbps routing throughput per module, as well as flexible manageability

- **Flexible, multiprotocol routing for the X-Pedition ER16, 8600 and 8000**
  - Provides wire-speed IP/IPX performance while still supporting less demanding protocols such as AppleTalk
  - Delivers high-performance IPv4 and IPv6 routing—all in the same chassis
- **Ensures a smooth, gradual migration to IPv6, while still supporting IPv4 and IPX users**
  - Dual-stack capabilities assure transparent integration of IPv4 and IPv6
  - Various tunnelling techniques provide options for migrating from IPv4 to IPv6
  - VLAN support facilitates the creation of IPv6 and IPv4 broadcast domains
- **Delivers extensive IPv6 features**
  - Massive IPv6 address space
  - RIPng provides for an improved IGP with IPv6 prefixes
  - Improved handling of fragmented packets assures efficient router processing and performance
  - IPv6 neighbor discovery improves network awareness
- **Scalable, cost-effective investment protection**
  - Decreases operational costs by eliminating the need for additional routers
  - Allows smooth, gradual migration to IPv6 while assuring co-existence with existing IPv4 environments

### Extend the Benefits of the X-Pedition to Your IPv6 Next-Generation Network

The X-Pedition switch router family is widely recognized for delivering wire-speed performance, pinpoint application control and advanced security features to IP/IPX networks. With the X-Pedition IPv6 routing modules (X-Pedition ER16-IPV6-00 and SSR-IPV6-000), Enterasys extends these benefits to next-generation protocol environments. These routing enhancements for the X-Pedition ER16, 8600 and 8000 chassis provide optimum versatility by delivering high-performance IPv6 routing while still supporting IPv4/IPX users.

The X-Pedition IPv6 routing modules combine the powerful features of a hardware-based platform, capable of forwarding 1.6 Gbps of throughput per

module, with the flexible manageability of a software-based routing solution. If two modules are installed in a single X-Pedition ER16, 8600 or 8000 chassis, resilience is increased and performance is doubled because the traffic is load balanced across both modules. In the event of a failure, the remaining active IPv6 module will take over in less than one second, and all the flows will be re-mapped to this IPv6 module.

Importantly, these modules allow customers to implement IPv6 with total confidence, assuring interoperability between existing IPv4 infrastructures and offering various transition technologies. The X-Pedition ER16-IPV6-00 and SSR-IPV6-00 modules provide the capability to successfully deploy and integrate IPv6 into today's production-quality IPv4 networks, leveraging the proven market-leading routing capabilities of the X-Pedition solution set.

## Specifications

### Physical Specifications

---

#### Dimensions

**ER16-IPV6-00:** 52.9 cm (20.9") H x 40.1 cm (15.8") D x 2.9 cm (1.15") W

**SSR-IPV6-00:** 19.6 cm (7.75") H x 29.2 cm (11.5") D x 3.8 cm (1.5") W

#### Weight

**ER16-IPV6-00:** 2.2 kg (5.0 lbs)

**SSR-IPV6-00:** 1.2 kg (3.0 lbs)

### Environmental Specifications

---

#### Operating Temperature

0° C to +40° C (32° F to 104° F)

#### Non-Operating Temperature

-30° C to +73° C (-22° F to 164° F)

#### Operating Humidity

5% to 90% (non-condensing)

#### Power Consumption

AC Volt Amps: 20.0 VAC

### Technical Specifications

---

#### MTBF

>200,000 hr. / > 22 years

#### In-band Management

Remote SNMP via NetSight™

## Ordering Information

#### ER16-IPV6-00

IPv6 module for the X-Pedition ER16 platform

#### SSR-IPV6-00

IPv6 module for the X-Pedition 8000/8600 platforms

### Agency Standards and Specifications

---

#### Safety

Meets the requirements of UL60950, CSA C22.2 No. 60950, EN60950, EN60825 and IEC60950

#### Electromagnetic Compatibility (EMC)

Compliant with the requirements of 47CFR Parts 2 and 15, CSA C108.8, EN55022, EN55024, EN 61000-3-2, EN61000-3-3, VCCI V-3, AS/NZS 3548

#### RFC and MIB Support

##### IPv6

802.1Q VLANs for IPv6 Static Unicast Routing

RFC 198–Path MTU Discovery

RFC 2080–RIPng

RFC 357–IPv6 Global Unicast Address Format

RFC 2460–Internet Protocol version 6

RFC 2461–Neighbor Discovery

RFC 2462–Stateless Auto Configuration for Hosts

RFC 2463–ICMPv6

RFC 2893–Transition mechanisms for IPv6 Hosts and Routers

RFC 3513–IPv6 Addressing Architecture

IPv6 Access List (SIP, DIP, Traffic Class, Next Header)

Ping and Trace Route for IPv6

## 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 Networks 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](http://enterasys.com/products/routing)

## Contact Information

---

Contact Enterasys Sales at **877-801-7082** or [enterasys.com/corporate/contact/contact-sales.html](http://enterasys.com/corporate/contact/contact-sales.html)

Enterasys Networks  
Corporate Headquarters  
50 Minuteman Road  
Andover, MA 01810  
U.S.A

X-Pedition and NetSight are trademarks or registered trademarks of Enterasys Networks. All other products or services mentioned are identified by the trademarks or service marks of their respective companies or organizations. NOTE: Enterasys Networks reserves the right to change specifications without notice. Please contact your representative to confirm current specifications.

All contents are copyright © 2004 Enterasys Networks, Inc. All rights reserved.

Lit. #9013741 9/04

Page 4 of 4 • Data Sheet

