

# About Enterasys

*Providing next-generation Secure Networks to global enterprises*

Enterasys provides intelligent, best-in-class infrastructure solutions to enterprise customers. With one of the industry's broadest product portfolios—plus a full range of service and support offerings—Enterasys is uniquely qualified to meet the evolving needs of today's businesses.

## **Our Value Proposition:**

- Exclusive focus on providing Secure Networks to enterprise customers
- Leading security technology and architecture
- Proven return on investment

Leveraging our own technology and thought leadership as well as the strengths of our strategic partners, we strive to develop flexible, scalable, intelligent solutions that deliver real-world benefits to customers.

As a renowned enterprise networking leader with more than 15 years of experience and over 650 patents, Enterasys has provided secure *Networks that Know*<sup>™</sup> to some of the world's most successful companies, including many of the Fortune 500.

## **Leveraging the Infrastructure for Security Intelligence and Capability**

In today's world, there are more threats to your IT infrastructure and systems than ever before. At Enterasys, we understand that the security of your enterprise network is directly tied to the success of your business.

To protect the assets of the business properly, security can't be an afterthought; it must be holistically integrated into the entire network infrastructure. You must adopt an end-to-end approach that anticipates risks before they occur, using pervasive mechanisms that automatically keep up with changing conditions. Such networks can actually enable the business to grow and change dynamically.

We define Secure Networks as an approach that leverages the network infrastructure as a pervasive integration point for all security intelligence and capability.

We invite you to learn more about how Enterasys can provide the solutions to meet your critical business requirements.

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## Switch Routers

*Secure, wire-speed IP/IPX and IPv6 routing from the backbone to the desktop to the WAN*

Enterasys' high-capacity switch routing solutions deliver reliable, secure connectivity across your entire enterprise. As the industry's best-selling modular Layer 3 switch, the X-Pedition family of switch routers supports all your critical applications with wire-speed performance and pinpoint control. Choose the X-Pedition that best fits your needs. From the corporate backbone to your regional sites, only the X-Pedition can deliver the performance and feature-rich functionality today's mission-critical enterprises demand.

# X-Pedition ER16

*High-capacity backbone switch router*



## High-performance, scalable LAN/WAN enterprise switch router

- Dual 128 Gbps non-blocking switching fabric; 96 Mpps routing throughput
- Up to 120 Gigabit Ethernet ports; up to 480 10/100 ports
- Up to 4,000,000 Layer 4 application flows; 250,000 Layer 3 routes; 1,600,000 MAC addresses; 20,000 security/access filters; 4,096 VLANs
- Built-in support for 10-Gigabit optical networks and emerging technologies

## Pinpoint control to prioritize applications, improve operation

- Wire-speed, application-level QoS for end-to-end reliability
- Application load balancing and content verification ensure that resources are delivered with no delays or latency
- Allocate bandwidth to users on a per-port basis; apply user-specific priorities or use incoming pre-prioritization levels

## Multilayer security features

- Can be deployed with VPNs, firewalls, intrusion detection systems
- Enable Access Control Lists for filtering traffic without compromising performance

## Superior fault tolerance to ensure 24x7 network availability

- Provides redundant power, control modules, switch fabrics, ports, line cards

Enterasys' X-Pedition ER16 16-slot chassis-based routing platform represents a new generation of enterprise-wide LAN/WAN backbone solutions, providing the scalability, performance and application control to meet the growing needs of today's infrastructures. The ER16 provides a rich set of application services including transparent web caching and redirection, traffic prioritization and traffic shaping, multilayer security, application load balancing, application content verification and high availability. These services ensure full application delivery—for e-commerce, enterprise resource planning, voice-over-IP, customer relationship management, and more—from the desktop to the WAN.

With dual 128 Gbps of non-blocking switch fabric and over 4 million Layer 4 application traffic flows, the X-Pedition ER16 provides the density needed to support the largest enterprises.

# X-Pedition ER16

High-capacity backbone switch router (continued)

## Specifications

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### Physical

**Dimensions**

48.26 cm (19") x 48.26 cm (19") x 88.9 cm (35")

**Weight**

56.25 kg (125 lbs)

### Environmental

**Operating Temperature**

5° to 40° C (41° to 104° F)

**Non-Operating Temperature**

-30° to 73° C (-22° to 164° F)

**Operating Humidity**

15% to 95% (non-condensing)

**Power Consumption**

100 to 125 VAC Max or 200 to 250 VAC Max,  
2400 W -48 VDC, 2400 W 50 to 60 Hz

## Ordering Information

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ER16-CS	Enterasys routing platform base chassis with one switch fabric module and a clock card
ER16-CSB-3	ER16 bundle with chassis, switch fabric, two power supplies, redundant CM3-128s and firmware
ER16-CSB-4	ER16 bundle with chassis, switch fabric, two power supplies, redundant CM4-256s and firmware

## Modules

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ER16-04	Enterasys routing platform 4-port 1000Base-4 GBIC module
ER16-SX-08	Enterasys routing platform 8-port 1000Base-SX module
ER16-08	Enterasys routing platform 8-port GBIC module
ER16-TX-24	Enterasys routing platform 24-port 10/100 Base-TX module
ER16-TX-32	Enterasys routing platform 32-port 100Base-TX module
ER16-GTX32-04	Enterasys routing 4-port 1000Base-TX module
ER16-GTX32-08	Enterasys routing 8-port 1000Base-TX module
ER16-HFX31-24	Enterasys routing 24-port 100Base-FX T series module for MMF via MTRJ connectors
ER16-HFX39-24	Enterasys routing 24-port 100Base-FX T series module for SMF via MTRJ connectors
ER16-OS26-01	Dual-slot 10-Gigabit Ethernet module; accepts XenPak interfaces
ER16-OS16-01	Single-slot 10-Gigabit Ethernet module; accepts XenPak interfaces
ER16-IPV6-00	Single-slot IPv6 co-processor module

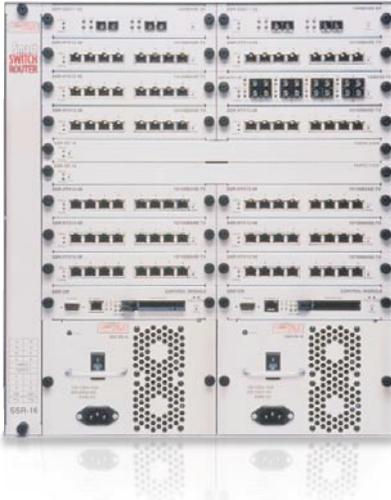
## Accessories

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ER16-AC ERP	AC power supply (minimum 2 required, 3 or 4 required for redundancy)
ER16-FN	Enterasys routing platform fan tray assembly (spare)
ER16-CK	Enterasys routing platform clock card assembly (spare)
ER16-SF	Enterasys routing platform switching fabric module (spare or redundancy)
ER16-CM3-128	Enterasys routing platform control module with 128 MB
ER16-CM4-256	Enterasys routing platform control module with 256 MB
XP-SYS-FW-32	X-Pedition routing services for L2, L3, L4 switching and IP (RIPv2, OSPF), IPX (RIP/SAP) routing; one required with every chassis (shipped on PC card)

# X-Pedition 8600

## High-capacity enterprise switch router



### Multilayer switch router for the enterprise backbone

- Wire-speed IP/IPX routing for unicast and multicast traffic
- Dual 64 Gbps switch fabric for redundant configurations supporting 128 Gbps non-blocking switching capacity; 48 Mpps routing throughput
- Up to 60 Gigabit Ethernet ports; up to 240 10/100 ports

### Full application support from the desktop to the WAN

- Wire-speed Layer 4 application flow switching
- Maintains wire-speed performance with all other features enabled
- Supports HSSI, FDDI, ATM and serial WAN interfaces
- Ready now for multicast voice and video applications

### Pinpoint control to prioritize applications, improve e-business operation

- Wire-speed, application-level QoS for end-to-end reliability
- Application load balancing and content verification
- Supports Weighted Fair Queuing and Rate Limiting (CAR)

### Advanced security features for greater peace of mind

- Wire-speed Layer 2, 3, 4 security filters

Built for the enterprise backbone, the chassis-based, high-capacity 16-slot X-Pedition switch router combines wire-speed performance at gigabit rates, pinpoint control of application flows, and superior routing capacity to ensure high availability of internal and external networks.

The X-Pedition 8600 delivers full-function, wire-speed IP/IPX routing—both unicast and multicast. Dual 64 Gbps switch fabrics provide a redundant configuration supporting 128 Gbps non-blocking switch capacity and delivering 48 Mpps switching and routing throughput. The X-Pedition 8600 can be configured with up to 240 10/100 ports or 60 Gigabit Ethernet ports.

Enterprise backbone requirements are met through massive table capacity and redundancy. The X-Pedition switch router is also the industry's first Gigabit switching router with WAN capabilities. The WAN interfaces extend the benefits of the X-Pedition to remote locations. In so doing, they enable application-level control from the desktop to the WAN edge, all at wire speed.

# X-Pedition 8600

## High-capacity enterprise switch router (continued)

### Specifications

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#### Physical

**Dimensions**

48.9 cm (19.25") x 43.82 cm (17.25") x 31.12 cm (12.25")

**Weight**

28 kg (61.75 lbs)

#### Environmental

**Operating Temperature**

0° C to 40° C (32° F to 104° F)

**Relative Humidity**

5% to 95% (non-condensing)

### Ordering Information

---

SSR-16	X-Pedition switch router 16-slot base system including chassis, backplane, modular fan, and a single switch fabric module (SSR-SF-16); requires CM2 control module
SSR-PS-16	Power supply for the X-Pedition switch router
SSR-SF-16	Switch fabric module for the X-Pedition 8600; one module ships with the base system (SSR-16), order only if second is required for redundancy
SSR-MEM-128	CM2 memory upgrade kit (for CM2 series only)
XP-PCMCIA-32AT	32 MB ATA memory for the X-Pedition
SSR-CM4-256	X-Pedition CM4 control module with 256 MB memory
SSR-CM2-64	X-Pedition control module with 64 MB memory
XP-SYS-FW-32	X-Pedition router services for L2, L3, L4 switching and IP (Ripv2, OSPF), IPX (RIP/SAP) routing; one required with every chassis (shipped on PC card)

### Modules for the 8600 and 8000

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SSR-ARE	AppleTalk routing module for the X-Pedition 8000/8600
SSR-ATM29-02	ATM switch routing module for the X-Pedition 8000/8600
SSR-GTX32-02	2-port 1000Base-T Gigabit switch routing module for the X-Pedition 8000/8600
SSR-GLX39-02	2-port 1000Base-LX Gigabit Jumbo Frame module for the X-Pedition 8000/8600, via SC connector and 16 MB memory
SSR-GLH39-02	2-port 1000Base-LLX (Long Haul) Gigabit Jumbo Frame module X-Pedition 8000/8600, via SC connector and 16 MB memory (70KM)
SSR-HTX32-16	16-port 10/100Base-TX switch routing module for the X-Pedition 8000/8600
SSR-HFX21-08-AA	100Base-FX module for the X-Pedition 8000/8600, with 8 MMF SC ports, and 16 MB of memory (supporting up to 2,000,000 flows per system)
SSR-IPv6-00	Single-slot IPv6 co-processor module for the 8600 and 8000
SSR-HFX29-08-AA	8-port 100Base-FX switch routing module for the X-Pedition 8000/8600, via SMF and 16 MB memory (supporting up to 2,000,000 flows per system). Build to order.
SSR-SERC-04-AA	Quad-port Serial module with compression for the X-Pedition 8000/8600
SSR-SERCE-04-AA	Quad-port Serial module with compression and encryption for the X-Pedition 8000/8600

# X-Pedition 8000

## Enterprise switch router



### Multilayer switch router for the corporate backbone or wiring closet

- Full-function IP/IPX routing for unicast and multicast traffic
- 16 Gbps non-blocking switching fabric; 15 Mpps routing throughput
- Up to 18 Gigabit Ethernet ports; up to 112 10/100 ports

### Full application support from the desktop to the WAN

- Wire-speed Layer 4 application flow switching
- Maintains wire-speed performance with all other features enabled
- Supports HSSI, FDDI, ATM and serial WAN interfaces
- Ready now for multicast voice and video applications

### Pinpoint control to prioritize applications, improve e-business operation

- Wire-speed, application-level QoS for end-to-end reliability
- Application load balancing and content verification
- Supports Weighted Fair Queuing and Rate Limiting (CAR)

### Advanced security features for greater peace of mind

- Wire-speed Layer 2, 3, 4 security filters

Designed to fit in a small corporate backbone or the wiring closet as part of a larger enterprise, the 8-slot X-Pedition 8000 combines wire-speed performance at Gigabit rates, pinpoint control of application flows, and superior routing capacity to ensure high availability of internal and external networks.

The X-Pedition 8000 delivers full-function, wire-speed IP/IPX routing—both unicast and multicast. Powered by a non-blocking 16 Gbps switching fabric, the X-Pedition 8000's throughput exceeds 15 Mpps. It can be configured with up to 56 10/100 ports or 14 Gigabit Ethernet ports.

Enterprise requirements are met through massive table capacity and redundancy. The X-Pedition switch router is also the industry's first Gigabit switching router with WAN capabilities. The WAN interfaces extend the benefits of the X-Pedition router to remote locations, providing network administrators application-level control from the desktop to the WAN edge, all at wire speed.

# X-Pedition 8000

Enterprise switch router (continued)

## Specifications

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### Physical

**Dimensions**

22.3 cm (8.75") x 43.82 cm (17.25") x 31.12 cm (12.25")

**Weight**

18.2 kg (40 lbs)

### Environmental

**Operating Temperature**

0° C to 40° C (32° F to 104° F)

**Relative Humidity**

5% to 95% (non-condensing)

## Ordering Information

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SSR-8	X-Pedition switch router 8-slot base system including chassis, backplane, modular fan, and a single switch fabric module (SSR-SF-16); requires CM2 control module
SSR-PS-8	Power supply for the X-Pedition switch router
SSR-PS-8-DC	DC power supply for the X-Pedition 8000
SSR-MEM-128	CM2 memory upgrade kit
XP-PCMCIA-32AT	32 MB ATA memory for the X-Pedition
SSR-CM4-256	X-Pedition CM4 control module with 256 MB memory
SSR-CM2-64	X-Pedition control module with 64 MB memory
XP-SYS-FW-32	X-Pedition Router Services for L2, L3, L4 switching and IP (RipV2, OSPF), IPX (RIP/SAP) routing; includes built-in management; one required with every chassis (shipped on PC card)

## Modules for the 8600 and 8000

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SSR-ARE	AppleTalk routing module for the X-Pedition 8000/8600
SSR-ATM29-02	ATM switch routing module for the X-Pedition 8000/8600
SSR-GTX32-02	2-port 1000Base-T Gigabit switch routing module for the X-Pedition 8000/8600
SSR-GLX39-02	2-port 1000Base-LX Gigabit Jumbo Frame module for the X-Pedition 8000/8600, via SC connector and 16 MB memory
SSR-GLH39-02	2-port 1000Base-LLX (Long Haul) Gigabit Jumbo Frame module X-Pedition 8000/8600, via SC connector and 16 MB memory (70KM)
SSR-HTX32-16	16-port 10/100Base-TX switch routing module for the X-Pedition 8000/8600
SSR-HFX21-08-AA	100Base-FX module for the X-Pedition 8000/8600, with 8 MMF SC ports, and 16 MB of memory (supporting up to 2,000,000 flows per system)
SSR-IPv6-00	Single-slot IPv6 co-processor module for the 8600 and 8000
SSR-HFX29-08-AA	8-port 100Base-FX switch routing module for the X-Pedition 8000/8600, via SMF and 16 MB memory (supporting up to 2,000,000 flows per system). Build to order.
SSR-SERC-04-AA	Quad-port Serial module with compression for the X-Pedition 8000/8600
SSR-SERCE-04-AA	Quad-port Serial module with compression and encryption for the X-Pedition 8000/8600

# X-Pedition 2400-256

## Workgroup switch router



### Application-aware desktop enterprise switch router

- Standards-based Layer 2, 3, 4 switching; wire-speed, standards-based IP/IPX routing
- 8 Gbps non-blocking switching fabric; 6 Mpps routing throughput
- 180,000 Layer 2 MAC addresses; 220,000 Layer 3 routes; 180,000 Layer 4 application flows; 4,096 VLANs
- Provides 256 MB system memory for enterprise scalability
- Flexible expansion for 100Base-FX, 1000Base-SX/LX/LH, WAN and ATM

### Full application support right to the desktop

- Wire-speed Layer 4 application flow switching
- Maintains wire-speed performance with all other features enabled

### Pinpoint control to prioritize applications

- Wire-speed, application-level QoS for end-to-end reliability
- Application load balancing and content verification
- Allocate bandwidth on a per-port basis down to 1 Kbps rate
- Supports Strict Priority or Weighted Fair Queuing and Rate Limiting (CAR)

### Advanced security features for greater peace of mind

- Up to 20,000 Layer 2, 3, 4 wire-speed security/access control filters
- Access Control Lists applied at Layer 2, 3 or 4 without affecting performance

### Superior fault tolerance to ensure 24x7 network availability

- Redundant power supplies, ports and line cards to protect from failures
- Supports Spanning Tree, Per-VLAN Spanning Tree, rapid reconvergence of Spanning Tree, load sharing, link aggregation, policy-based and multi-path routing
- Supports VRRP in a redundant environment for compatibility with other systems

### Standards-based, intuitive management for fast, easy troubleshooting

- Full SNMP management via NetSight Atlas
- Full support for RMON and RMON 2 for granularity in flow statistics

Designed to accommodate multiple enterprise networking functions—including LAN backbone, server load balancing, and workgroup or remote site connectivity—the X-Pedition 2400-256 supports 16 fixed 10/100 ports and flexible expansion slots to accommodate 100Base-FX, 1000Base-SX/LX/LH, WAN or ATM for high-density, wire-speed 10/100/1000 Mbps switching and routing with throughput in excess of 6 Mpps.

The X-Pedition 2400-256 also offers an expanded system memory capacity of 256 MB to support more than 200,000 routes, as well as system configurations including Access Control Lists, Quality of Service and multicasting tables. This larger memory capacity allows the X-Pedition 2400-256 to provide the functionality enterprise customers require, both today and in the future.

# X-Pedition 2400-256

Workgroup switch router (continued)

## Specifications

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### Physical

#### Dimensions

7.1 cm (2.8") H x 43.2 cm (17") W x 47 cm (18.5") D

#### Weight

9.07 kg (20 lbs)

### Environmental

#### Operating Temperature

5° C to 40° C (41° F to 104° F)

#### Operating Humidity

15% to 90% (non-condensing)

## Ordering Information

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XP-2400-256	X-Pedition 2400 switch router with 16 slots for 10/100 connectivity and a flexible expansion slot, includes 256 MB of memory
XP-2-ATM29-02	XP-2400 2 ATM OC3 for the
XP-2-SX-AA	2-port 1000Base-SX expansion module for the X-Pedition 2400
XP-2-LX-AA	2-port 1000Base-LX module for the X-Pedition 2400
XP-2-LX70-AA	1-port 70km 1000Base-LX Gigabit Ethernet module for the X-Pedition 2400
XP-2-TX-AA	8-port 10/100 TX module for the X-Pedition 2400
XP-2-FX-AA	8-port 100 FX module with MT-RJ connectors for the X-Pedition 2400
XP-2-SER-AA	Dual-port Serial module for the X-Pedition 2400
XP-2-SERC-AA	Quad-port Serial module with compression for the X-Pedition 2400
XP-2-SERCE-AA	Quad-port Serial module with compression and encryption for the X-Pedition 2400
XP-2-HSSI-CK	HSSI module with internal clocking support for the X-Pedition 2400
XP-2-RKMT	Rackmount kit for XP-2400 and XP-2100

# X-Pedition 2100

## Application-aware workgroup switch router



### Multilayer solution for workgroup and server farm environments

- Full-function IP/IPX routing for unicast and multicast traffic
- 8 Gbps non-blocking switching fabric; 9.2 Mpps routing throughput
- 8 1000Base-SX ports operable in full-duplex or half-duplex mode

### Full application support right to the desktop

- Wire-speed Layer 4 application flow switching
- Maintains wire-speed performance with all other features enabled
- Ready now for multicast voice and video applications

### Pinpoint control to prioritize applications, improve e-business operation

- Wire-speed, application-level QoS for end-to-end reliability
- Application load balancing and content verification
- Supports DiffServ, Weighted Fair Queuing and Rate Limiting (CAR)

### Advanced security features for greater peace of mind

- Wire-speed Layer 2, 3, 4 security filters
- Supports LFAP interface to monitor and measure network usage

Providing an important link from the backbone to the workgroup, the X-Pedition 2100 combines wire-speed routing at gigabit rates with pinpoint control of application flows to ensure high availability right from the desktop.

With the X-Pedition 2100's Layer 4 switching capacity, application-level control seamlessly extends to the workgroup, while QoS and load balancing expands to the server farm. In fact, with its 8.0 Gbps non-blocking switching fabric and 9.2 Mpps routing throughput, the X-Pedition 2100 offers one hundred times the performance of traditional routers at a cost comparable to Layer 2 switches. Full-function IP/IPX routing enables the X-Pedition 2100 to satisfy even the most traffic-intensive environments. More than 4,000 VLANs, 2,000 security filters and large per-port buffers provide the capacity to handle peak traffic.

The X-Pedition 2100 can also be positioned as a Layer 2, 3 and 4 server load-balancing switch. Up to eight servers can be connected via 1000Base-SX connections, extending application control.

# X-Pedition 2100

*Application-aware workgroup switch router (continued)*

## Specifications

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### Physical

#### Dimensions

7.1 cm (2.8") H x 43.2 cm (17") W x 47 cm (18.5") D

#### Weight

9 kg (22 lbs )

### Environmental

#### Operating Temperature

5° C to 40° C (41° F to 104° F)

#### Relative Humidity

15% to 90% (non-condensing)

## Ordering Information

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SSR-2-GSX

X-Pedition 2100 workgroup switch router in a fixed configuration with 8 ports 1000 Base-SX, includes redundant power supplies, X-Pedition Router Services software and device management software

# XSR 3000 Series Security Router

*Comprehensive security for enterprise branch, regional and central offices*



## Enterprise-class IP routing, QoS and WAN

- Delivers non-stop local and wide area networking
- QoS enables VoIP and other priority-sensitive applications

## Rich suite of security technologies

- Extranet, site-to-site and remote access VPN technologies
- Policy-managed, stateful inspection firewalling
- Security options software upgradeable, simplifying and reducing the cost of upgrades

## Powerful management tools

- Easy-to-use CLI for reduced training costs
- SNMP integration including support for SNMPv3
- Enhanced management via NetSight Atlas

## Industry price/performance leadership

- Optimized IP routing throughput of 200k to 500k PPS
- Dedicated on-board VPN acceleration with up to 300 Mbps throughput
- Deep packet inspection stateful inspection firewall performance up to 2 Gbps
- EOS Routing Services support a wide range of protocols
- NIMs interoperable with other XSR devices

The XSR 3000 Series Security Router delivers simple and powerful enterprise WAN networking by combining comprehensive IP routing features; a broad range of WAN interfaces; and a rich suite of security functions, including site-to-site and remote access Virtual Private Networking and policy-managed, stateful-inspection firewalling—in a single device. Unlike typical WAN routers, the XSR Security Router provides best-of-breed security and maintains wire-speed performance when all features are enabled. And, unlike typical security appliances, the XSR provides extensive IP routing and a wide range of WAN interfaces.

## Choose from these different options:

**XSR-3020 for the High-End Branch Office.** With 200k PPS IP routing throughput, support for 1,000 VPN connections, and stateful inspection firewall performance of 100 Mbps, the XSR-3020 is well suited to service the high-end branch office. Capable of line-rate performance with dual T3/E3 interfaces, the XSR-3020 can be deployed to connect the branch office with hundreds of onsite users and teleworkers.

**XSR-3150 for the Regional Office/VPN Tunnel Server.** Performance of 400k PPS, support for 3,000 VPN connections and stateful inspection firewall capabilities reaching 2 Gbps performance position the XSR-3150 to meet the needs of the high-end branch office or regional office with WAN connections of up to two T3/E3 or eight T1/E1 links. A redundant power supply is included.

**XSR-3250 for the Central Site with WAN Aggregation Requirements.** With performance levels similar to the XSR-3150, the XSR-3250 has six network interface module (NIM) slots. This enables it to serve the regional office, where up to six T3/E3 or 24 T1/E1 connections are required. A redundant power supply is included.

# XSR 3000 Series Security Router

Comprehensive security for enterprise branch, regional and central offices (continued)

## Specifications

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### Physical

#### XSR-3020

##### Dimensions

53.3 cm (21") L x 42.9 cm (16.9") W x 4.2 cm (1.6") H

##### Weight

7.72 kg (17 lbs)

#### XSR-3150

##### Dimensions

53.3 cm (21") L x 42.9 cm (16.9") W x 4.2 cm (1.6") H

##### Weight

9.09 kg (20 lbs)

#### XSR-3250

##### Dimensions

53.34 cm (21") L x 43.22 cm (16.9") W x 6.4 cm (2.5") H

##### Weight

13.154 kg (29 lbs)

### Environmental

#### Operating Temperature

0° C to 40° C (32° F to 104° F)

#### Non-Operating Temperature

-40° C to 70° C (-40° F to 158° F)

#### Operating Humidity

5% to 90% (non-condensing)

#### Power Consumption

Total Power (100 to -240~ Volts) 25W

## Ordering Information

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XSR-3020	XSR Security Router with three 10/100/1000 Ethernet LAN interfaces, 2 NIM slots, 8 MB onboard Flash memory, 128 MB DRAM, dedicated VPN Accelerator, Compact Flash slot and power supply (internal) in a rackmount form factor; bundled with Enterasys Operating System (EOS) IP Routing Services.
XSR-3150	XSR Security Router with three 10/100/1000 Ethernet LAN interfaces, 2 NIM slots, 8 MB onboard Flash memory, 256 MB DRAM, dedicated VPN Accelerator, Compact Flash slot, and redundant power supplies (internal) in a rackmount form factor; bundled with Enterasys Operating System (EOS) IP Routing Services.
XSR-3250	XSR Security Router with three 10/100/1000 Ethernet LAN interfaces, 6 NIM slots, 8 MB onboard Flash memory, 256 MB DRAM, dedicated VPN Accelerator, Compact Flash slot, and redundant power supplies (internal) in a rackmount form factor; bundled with Enterasys Operating System (EOS) IP Routing Services.
XSR-512MB-MEM	512 memory upgrade for the XSR-3150 and XSR-3250

## XSR Options

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### Security Options for the XSR-3020

XSR-3020-VPN VPN feature set for the XSR-3020

XSR-3020-FW Firewall feature set for the XSR-3020

XSR-3020-VPN-FW VPN and firewall feature set bundle for the XSR- 3020

### Security Options for the XSR-3150/3250

XSR-3xxx-VPN VPN feature set for the XSR-3150 and XSR-3250

XSR-3xxx-FW Firewall feature set for the XSR-3150 and XSR-3250

XSR-3xxx-VPN-FW VPN and firewall feature set bundle for the XSR-3150 and XSR-3250

# XSR 3000 Series Security Router

Comprehensive security for enterprise branch, regional and central offices (continued)

## Network Interface Modules

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XSR-NCC-250-4xx	NIM carrier card* (for the XSR-3250 only)
NIM-CT1E1/PRI-1	1-port channelized T1/E1 with support for ISDN PRI and integrated CSU/DSU
NIM-CT1E1/PRI-2	2-port channelized T1/E1 with support for ISDN PRI and integrated CSU/DSU
NIM-CT1E1/PRI-4	4-port channelized T1/E1 with support for ISDN PRI and integrated CSU/DSU
NIM-T1/E1-01	1-port T1/E1 network interface module, provides Clear Channel and Fractional operation with integrated CSU/DSU
NIM-T1/E1-02	2-port T1/E1 network interface module, provides Clear Channel and Fractional operation with integrated CSU/DSU
NIM-T1/E1-04	4-port T1/E1 network interface module, provides Clear Channel and Fractional operation with integrated CSU/DSU
NIM-SER-02	2-port Sync/Async Serial WAN network interface module (2 Mbps per port) Note: These are not HSSI interfaces.
NIM-SER-04	4-port Sync/Async Serial WAN network interface module (2 Mbps per port) Note: These are not HSSI interfaces.
<b>(Euro version)</b>	
NIM-BRI-ST-01	1-port ISDN Basic Rate network interface module with S/T interface
<b>(Euro version)</b>	
NIM-BRI-ST-02	2-port ISDN Basic Rate network interface module with S/T interface
NIM-BRI-U-01	1-port ISDN BRI with U interface
NIM-BRI-U-02	2-port ISDN BRI with U interface
NIM-T3/E3-01	1-port fractional T3/E3 network interface module with integrated CSU/DSU
NIM-ADSL-AC-01	1-port ADSL network interface module (Annex AC – POTS)
NIM-ADSL-B-01	1-port ADSL network interface module (Annex B – ISDN)
NIM-DIRELAY-02	2-port drop and insert interface
MGBIC-LC01	1000Base-SX Mini GBIC with LC connector
MGBIC-LC09	1000Base-LX Mini GBIC with LC connector
MGBIC-MT01	1000Base-SX Mini GBIC with MTRJ connector

\* Note: XSR 3000 Series configurations include hardware and software components. Product orders should include:

- The XSR-3000 base system (EOS IP Routing Services, on board flash and base DRAM, 3 10/100/1000 LAN interfaces and 2 to 6 NIM slots, model dependent)
- 1 to 6 network interface modules (NIM), if needed for WAN connectivity
- NIM carrier card (Model XSR-3250 and XSR-4100 only) for installation of the third and all subsequent NIMS; order one NIM carrier card XSR-NCC-250-4xx for every two NIMS.

(The first and second NIM can be installed on the XSR-3250 without a NIM carrier card. One NIM carrier card enables the installation of a third and fourth NIM. A second enables the installation of a fifth and sixth NIM.) Please note that NIMs must be installed in a NIM carrier card to be hot swappable (hot swap available in XSR Release 9).

- NIM cables, if needed
- Additional security features (VPN and Firewall), if needed
- Additional memory for added VPN tunnel capacity, if needed
- NetSight Atlas Router Services Manager application
- Service contract, recommended to maintain system currency
- XSR series products have a license management system to allow the purchase and installation of additional software feature sets at any time.

# XSR-1805 Security Router

Security router for the branch office



## Best-in-class performance and price

- Industry-leading 50 Kpps IP routing throughput; 100 Mbps VPN throughput; 50 concurrent IPSec/3DES tunnels and dedicated on-board VPN acceleration
- Enterasys Operating System (EOS) feature set, including IP, RIPv1, RIPv2 and OSPF protocols, DHCP Relay, DHCP Server, ISDN, Frame Relay, dial on demand, dial backup and bandwidth on demand
- Easy-to-add software and hardware enhancements; network interface modules are compatible with other XSR Series Security Routers
- Deep packet inspection stateful protection firewall performance of up to 180 Mbps

## Surprisingly quick, entry-level security router at a low price

- Combines the latest networking features for the branch office in a cost-effective, standalone device

## Dual 10/100 LAN interfaces, IP routing, QoS and WAN functionality in a single box

- Comprehensive IP routing, QoS features and a range of WAN interfaces provide non-stop, high-performance local and wide area networking

## High-performance VPN with Hardware Accelerator

- Extranet, site-to-site and remote access VPN technologies—including standards-based IPSec/IKE, Windows XP/2000 client-compatible L2TP/IPSec, PPTP, Extensible Authentication Protocol, with 3DES and AES encryption
- IPSec hardware acceleration for high-performance, high-security VPN

## High-performance firewall

- Deep packet inspection; performance ranging to 180 Mbps
- Designed to incorporate a policy-managed firewall, integration of the award-winning Dragon Intrusion Defense System, and support for SIP-enabled next-generation messaging technologies

## Powerful, intuitive management

- Industry-standard Command Line Interface, SNMP integration, and future NetSight Atlas management tools
- Front-panel LED status indicators, out-of-band management interface, and recessed Restore Factory Default switch for easy on-site diagnostics

Designed for the enterprise branch office or central site of a small and medium sized business, the XSR-1805 Security Router delivers powerful networking performance by combining a comprehensive IP routing feature set and a broad range of WAN interfaces with site-to-site and remote access Virtual Private Networking. This all-in-one solution meets the connectivity, security, accessibility and upgradeability requirements of today's distributed network enterprises. The XSR-1805 is the entry level product in Enterasys' family of Security Routers for branch and regional offices.

# XSR-1805 Security Router

Security router for the branch office (continued)

## Specifications

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### Physical

**Dimensions**

35.6 cm (14") L x 25.4 cm (10") W x 6.4 cm (2.5") H

**Weight**

3.18 kg (7 lbs)

### Environmental

**Operating Temperature**

0° C to 40° C (32° F to 104° F)

**Non-Operating Temperature**

-40° C to 70° C (-40° F to 158° F)

**Operating Humidity**

5% to 90% (non-condensing)

## Ordering Information

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XSR-1805	Security Router 1805 base system, 32MB, Enterasys IP Routing Services
XSR-128MB-MEM	128 MB memory upgrade for XSR-18xx
XSR-64MB-MEM	64 MB memory upgrade for XSR-1805
XSR-18xx-VPN	VPN feature set for XSR 1800 Series Security Routers
XSR-1805-RKMT	Rackmount Kit for XSR-1805 Security Routers

## Network Interface Modules

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NIM-ADSL0AC-01	1-port ADSL interface (Annex AC-POTS)
NIM-ADSL-B-01	1-port ADSL interface (Annex B-ISDN)
NIM-CT1/E1-01	1-port Channelized T1/E1 DSU/CSU NIM
NIM-CT1/E1-02	2-port Channelized T1/E1 DSU/CSU NIM
NIM-CT1/E1-04	4-port Channelized T1/E1 DSU/CSU NIM
NIM-DIRELAY-02	2-port drop and insert interface NIM
NIM-T1/E1-01	1-port Fractional T1/E1 DSU/CSU NIM
NIM-T1/E1-02	2-port Fractional T1/E1 DSU/CSU NIM
NIM-T1/E1-04	4-port Fractional T1/E1 DSU/CSU NIM
NIM-SER-02	2-port Synch/Asynch serial NIM
NIM-SER-04	4-port Synch/Asynch serial NIM
NIM-BRI-ST-01	1-port ISDN BRI S/T NIM
NIM-BRI-ST-02	2-port ISDN BRI S/T NIM
NIM-BRI-U-01	1-port ISDN BRI with U interface
NIM-BRI-U-02	2-port ISDN BRI with U interface

## Cables

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NIM-V35-CAB-04	4-port V.35 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-232-CAB-04	4-port EIA-232/530 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-X21-CAB-04	4-port X.21 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-449-CAB-04	4-port EIA-449 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-DBU1-CAB-04	Combination cable; 2-port V.35 and 2-port EIA-232 DTE cable for use with 2- and 4-port NIM-SER-Ox serial NIM

# XSR-1850 Security Router

Security router for branch offices



## Best-in-class performance and price

- 60 Kpps IP routing throughput; 100 Mbps VPN throughput; 200 concurrent IPSec/3DES tunnels (expandable)
- Enterasys Operating System (EOS) feature set including IP, RIPv1, RIPv2 and OSPF protocols, DHCP Relay, DHCP Server, ISDN, Frame Relay, dial on demand, dial backup and bandwidth on demand
- Easy-to-add software and hardware enhancements
- Network interface modules compatible with other XSR Security Routers

## Dual 10/100 LAN interfaces, IP routing, QoS and WAN functionality in a single box

- Comprehensive IP routing, QoS features and a range of WAN interfaces provide non-stop, high-performance local and wide area networking
- Rackmount design with optional power supply redundancy for higher availability

## High-performance VPN with Hardware Accelerator

- Extranet, site-to-site and remote access VPN technologies—including standards-based IPSec/IKE, Windows XP/2000 client-compatible L2TP/IPSec, PPTP, EAP, and 3DES and AES encryption; IPSec hardware acceleration for high-performance, high-security VPN

## High-performance firewall

- Deep packet inspection stateful protection firewall; performance ranging up to 180 Mbps
- Designed to incorporate a policy-managed firewall, integration of Dragon IDS, and support for SIP-enabled next-generation messaging

## Powerful, intuitive management

- Industry-standard CLI, web-based remote configuration, SNMP integration, and future NetSight Atlas
- Front-panel LED status indicators, out-of-band management interface, and recessed Restore Factory Default switch for easy on-site diagnostics

## Optional Application Accelerator Card

- Offloads intrusion detection, firewall and other CPU-intensive applications from the main processor to ensure full router performance when running multiple security applications

Designed especially for site-to-site and remote access connectivity, this flexible platform includes dual Fast Ethernet LAN interfaces, VPN hardware acceleration, optional security application acceleration and a broad range of WAN interfaces.

Ideally suited for those branch office environments running mission-critical applications or requiring 24x7 accessibility, the rack-mountable XSR-1850 offers superior router throughput, 200 concurrent IPSec/3DES VPN tunnels, plus optional power supply and fan redundancy.

The 100% standards-based XSR-1850 offers a future-proof design to accommodate evolving security and connectivity needs, including a stateful inspection firewall, network and host intrusion detection, application-level gateway, and support for Session Initiation Protocol (SIP).

# XSR-1850 Security Router

Security router for branch offices (continued)

## Specifications

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### Physical

**Dimensions**

25.4 cm (10") L x 43.1 cm (17") W x 5.0 cm (2") H

**Weight**

4.08 kg (9 lb)

### Environmental

**Operating Temperature**

0° C to 40° C (32° F to 104° F)

**Non-Operating Temperature**

-40° C to 70° C (-40° F to 158° F)

**Operating Humidity**

5% to 90% (non-condensing)

## Ordering Information

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XSR-1850	Security Router 1850 base system, 64 MB, Enterasys IP Routing Services
XSR-128MB-MEM	128 MB Memory Upgrade for the XSR-1850
XSR-1850-VPN	XSR-1850 and VPN feature set bundle

## Network Interface Modules

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NIM-CT1/E1-01	1-port Channelized T1/E1 DSU/CSU NIM
NIM-CT1/E1-02	2-port Channelized T1/E1 DSU/CSU NIM
NIM-CT1/E1-04	4-port Channelized T1/E1 DSU/CSU NIM
NIM-T1/E1-01	1-port Fractional T1/E1 DSU/CSU NIM
NIM-T1/E1-02	2-port Fractional T1/E1 DSU/CSU NIM
NIM-T1/E1-04	4-port Fractional T1/E1 DSU/CSU NIM
NIM-SER-02	2-port Synch/Asynch serial NIM
NIM-SER-04	4-port Synch/Asynch serial NIM
NIM-BRI-ST-01	1-port ISDN BRI S/T NIM
NIM-BRI-ST-02	2-port ISDN BRI S/T NIM
NIM-ADSL-AC-01	1-port ADSL interface (Annex AC-POTS)
NIM-ADSL-B-01	1-port ADSL interface (Annex B-ISDN)
NIM-DIRELAY-02	2-port drop and insert NIM

## Cables

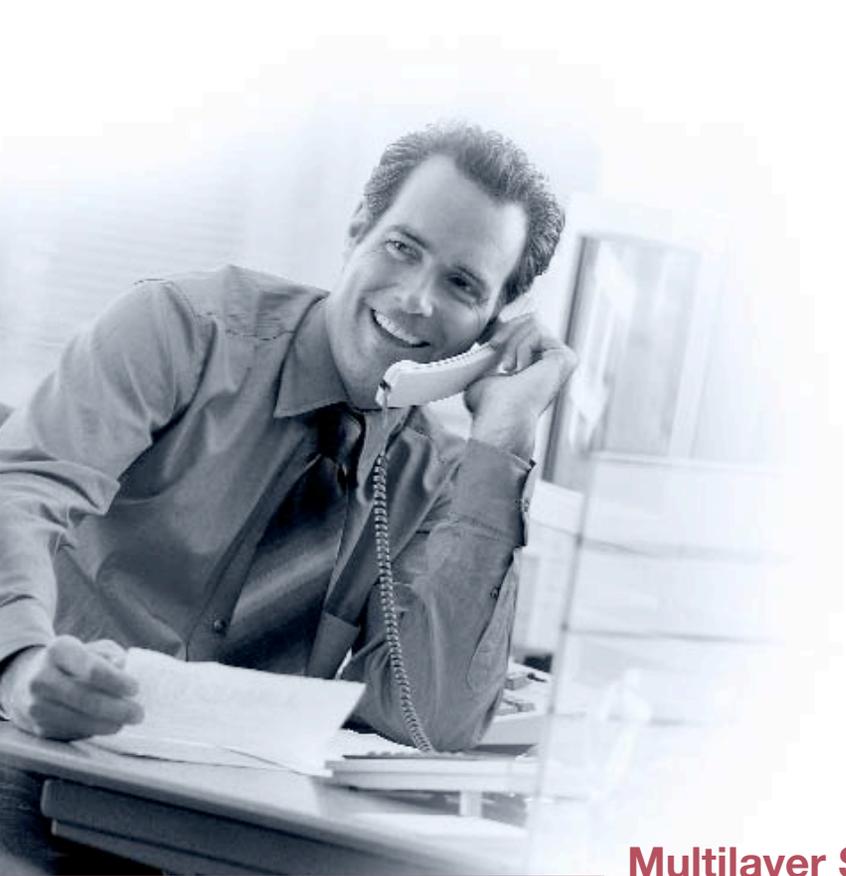
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NIM-V35-CAB-04	4-port V.35 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-232-CAB-04	4-port EIA-232/530 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-X21-CAB-04	4-port X.21 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-449-CAB-04	4-port EIA-449 DTE cable for use with all XSR serial NIMs, 6' (1.83 m)
NIM-DBU1-CAB-04	Combination cable; 2-port V.35 and 2-port EIA-232 DTE cable for use with 2- and 4-port NIM-SER-Ox serial NIM

## Power

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XSR-RPC	XSR-1850 redundant power center (chassis and one power supply)
XSR-RPOWER-1850	Redundant power supply for XSR 1850; up to four mount in XSR-RPC



## Multilayer Switches

*The building blocks for your  
next-generation IT infrastructure*

Our scalable, intelligent Matrix family of multilayer switches enables everything from e-commerce and ERP to industry-specific applications such as telemedicine, distance learning, and secured financial transactions. With the features you're looking for, such as guaranteed QoS and built-in redundancy, the Matrix ensures maximum network availability and reliability. Intuitive management tools let you configure the Matrix based on the changing needs of the organization—quickly and securely.

# Matrix N3 and N7

*A new generation of premium enterprise switches*



## High-performance switching and routing

- DFE switching/routing performance: 13.5 Mpps
- Matrix N3 aggregate performance: 40.5 Mpps
- Matrix N7 aggregate performance: 94.5 Mpps

## Switch fabric capacity

- DFE switching capacity: 18.5 Gbps per module
- Aggregate chassis switching capacity: Matrix N3, 240 Gbps; Matrix N7, 1.68 Tbps

## Optimized high-availability services

- All failures architecturally isolated to one engine (stateful fail-over)
- Redundancy scales with the number of engines

## Inherent scalability

- Performance/capacity scale as engines are added
- Support 10-Gigabit Ethernet today and scale up to 40-Gigabit Ethernet per slot

## Simplified system maintenance

- All engines have the same firmware version
- Each engine keeps a copy of the current configuration

Providing intelligent switching at user and server access points, the Matrix N3 and Matrix N7 are ideal for premium edge, collapsed backbone, distribution switching, and server farm aggregation applications, including performance networking, business-critical applications, end-to-end security, and voice.

To support a wide array of configurations, the Matrix N-Series is available in two different models: the Matrix N3 and Matrix N7. The **Matrix N3** is a modular 3-slot chassis and the **Matrix N7** is a modular 7-slot chassis; both support hot-swappable power supplies and a single fan tray. Total system aggregate switching capacity for the Matrix N3 is 240 Gbps; the Matrix N7 has the capability to scale to 1.68 Tbps.

The Matrix N-Series supports next-generation Distributed Forwarding Engines (DFEs). Based on a new family of nTERA™ ASICs, DFEs provide high port density to new and emerging technologies such as 10 Gigabit, with support for over 18 Gbps of switch capacity.

# Matrix N3 and N7

*A new generation of premium enterprise switches*

## Specifications

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### Physical

#### Dimensions

Matrix N3: 35.56 cm (14") H x 49.53 cm (19.5") W x 44.45 cm (17.5") D

Matrix N7: 77.47 cm (30.5") H x 36.83 cm (14.5") W x 44.04 cm (17.34") D

#### Weight

Matrix N3: 19.1 kg (42 lbs)

Matrix N7: 23.6 kg (52 lbs)

### Environmental

#### Operating Temperature

5° C to 40° C (41° 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

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#### Total Power

100 to 125 VAC or 200 to 250 VAC; 50 to 60 Hz

## Ordering Information

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N3-SYSTEM	Matrix N3 system bundle, including chassis, fan tray and one power supply
N3-SYSTEM-R	Matrix N3 system bundle, including chassis, fan tray, and two power supplies
N7-SYSTEM	Matrix N7 system bundle, including chassis, fan tray and power supply
N7-SYSTEM-R	Matrix N7 system bundle, including chassis, fan tray and two power supplies
7C107	Matrix N7 chassis
7C103	Matrix N3 chassis
6C207-3	1600W AC power supply for Matrix E7 and Matrix N7 (includes two 15 AMP power outlets)
7C203-1	863W AC power supply for Matrix N3 (includes 15 AMP power outlet)
6C407	Fan unit for the Matrix E7 and Matrix N7
7C403	Fan unit for the Matrix N3

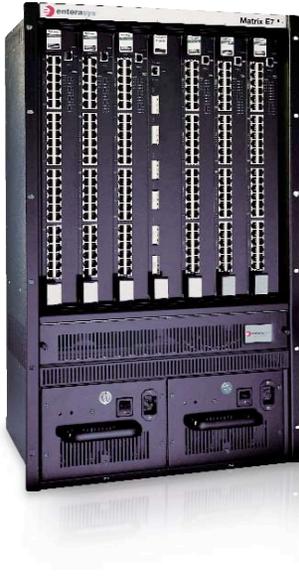
### Software

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N-EOS-L3	EOS L3 Upgrade
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# Matrix E7

*Intelligent access platform for data centers and high-performance wiring closets*



## High-density, scalable switching

- Supports 336 10/100 ports, scalable to over 500
- 42 Gigabit ports, scalable to over 80
- Future-ready to support 10-Gigabit Ethernet, DWDM, Jumbo Frames

## Comprehensive application control and security features

- Guarantee delivery of applications like Voice-over-IP and multicast video
- Advanced security filtering based on Layer 2-4 information
- Per-port bandwidth provisioning and queue management
- Supports policy-based management—filtering, rate limiting, priority, and classification—at the network edge

## Low cost of ownership

- Built-in traffic control without the expense of external routers
- Next-generation nTERA™ backplane allows complete compatibility with existing Matrix E6 modules and scales up to 420 Gigabits per second

## High-availability features

- Link Aggregation (IEEE 802.3ad), Per-VLAN Spanning Tree (IEEE 802.1s), and Quick Convergence Spanning Tree (IEEE 802.1w)
- Distributed switching architecture offers no single point of failure

Part of Enterasys Networks' award-winning line of enterprise switching solutions, the Matrix E7 is a seven-slot solution that provides the increased speed and functionality required in high-performance wiring closets or data centers. This high-powered performance is available thanks to the Matrix E7's 42-Gigabit backplane. The traffic control capabilities inherent in the Matrix E7 allow users to better control business-critical applications such as Voice-over-IP and multicast video—making it truly an Intelligent Access Platform.

Through the use of embedded directory-enabled services and system management tools, Enterasys delivers ease of use as well as total network visibility. And, Matrix E7 provides the intelligent tools that allow administrators to align the network closer to the goals of the overall organization.

The Matrix E7 supports next-generation Distributed Forwarding Engines (DFEs). Based on a new family of nTERA ASICs, DFEs provide high port density such as 10-Gigabit Ethernet, with support for over 18 Gbps of switch capacity.

# Matrix E7

*Intelligent access platform for data centers and high-performance wiring closets (continued)*

## Specifications

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### Physical

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#### Chassis Dimensions

77.47 cm (30.5") H x 44.04 cm (17.34") W x 36.83 cm (14.5") D

#### Power Supply Dimensions

12.7 cm (5") H x 21 cm (8.27") W x 27.94 cm (11") D

#### Module Dimensions

46.4 cm (18.28") H x 6.5 cm (2.38") W x 29.5 cm (11.62") D

### Weight

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#### Empty Chassis with Fan Tray

23.6 kg (52 lbs)

### Power Supply

9.1 kg (20 lbs)

### Average Module

2.0 kg (4.5 lbs)

### Environmental

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#### Operating Temperature

5° C to 40° C (41° F to 104° F)

#### Non-Operating Temperature

0° C to 70° C (32° F to 158° F)

#### Operating Humidity

5% to 90% (non-condensing)

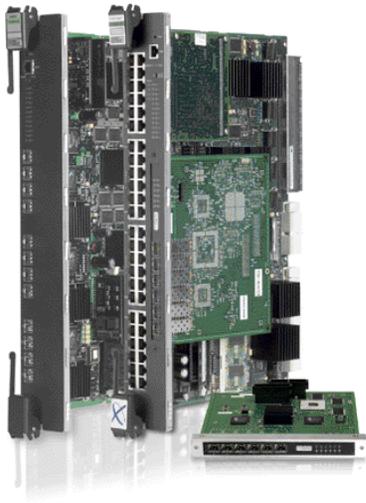
## Ordering Information

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6C107	Matrix E7 chassis, 7 slots, with fan tray
6C207-3	Matrix E7 power supply, 1600-watt (order two for redundancy)
6C407	Matrix E7 fan tray, spare
6SSRM-02	Matrix E6 and E7 Advanced Router Module with two expansion slots (includes router services software)

# Platinum Distributed Forwarding Engines (DFEs)

## Modules for the Matrix E7/N-Series



### Superior performance, capacity

- Supports more high-bandwidth and latency-sensitive applications; longer lifespan and lower lifetime cost

### Integrated Services Design

- Reduces the number/type of modules required; simplifies network design
- Lowers entry cost; lowers maintenance and sparring costs

### Port- and User-Based Multilayer Packet Classification

- Enables business-critical application transport, security and user personalization
- Tunes the network to business drivers; makes the network more efficient

### Optimized high-availability services

- Provides services and management stateful failover
- Increases reliability and fault tolerance; reduces configuration time; maximizes uptime

### Network-wide configuration, change, and inventory management

- Easier to install, troubleshoot, maintain; wizard-based upgrades

The Platinum Distributed Forwarding Engine (DFE) is Enterasys' next generation of high-performance enterprise modules for the Matrix E7 and Matrix N-Series switches. 0 and server aggregation applications.

Designed to leverage Enterasys' nTERA™ ASICs, these DFEs deliver high performance and flexibility to ensure comprehensive switching, routing, QoS, security and traffic containment unmatched by competitive solutions.

The industry's first Integrated Services Design enables DFEs to deliver:

- Switching/VLAN Services
- IP Routing
- Advanced Multilayer Packet Classification (including Port-Based and User-Based)
- Security (User, Host, Network)
- Management, Control and Analysis

The Integrated Services Design eliminates the need to purchase separate management modules or supervisor engines for a lower entry cost. All DFE modules provide a high port density, which reduces maintenance costs because fewer types of spares are required.

# Platinum Distributed Forwarding Engines (DFEs)

Modules for the Matrix E7/N-Series (continued)

## Specifications

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### Physical

#### Dimensions

46.43 cm (18.28") H x 6.05 cm (2.38") W x 29.51 cm (11.62") D

#### Weight

5.54 kg (12 lbs), gross shipping; 4.10 kg (9 lbs), net

### Environmental

#### Operating Temperature

5° C to 40° C (41° F to 104° F)

#### Non-Operating Temperature

-30° C to 73° C (-22° F to 164° F)

#### Operating Humidity

5% to 90% (non-condensing)

## Ordering Information

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7G4270-12	Platinum DFE with 12 1000Base-X Mini-GBIC slots
7G4202-30	Platinum DFE with 30 10/100/1000Base-TX ports via RJ45 connectors
7G4202-60	Platinum DFE with 60 10/100/1000Base-TX ports via RJ45 connectors
7G4282-41	Platinum DFE with 40 10/100/1000Base-TX ports via RJ45 and one expansion slot
7H4382-49	Platinum DFE with 48 10/100Base-TX ports via RJ45 connectors with one expansion module slot (with Matrix E7 backplane connectivity)
7H4203-72	Platinum DFE with 72 10/100Base-TX ports via RJ21 (Telco) connectors
7H4382-25	Platinum DFE with 24 10/100 Base-TX ports via RJ45 connectors and one expansion slot (with Matrix E7 backplane connectivity)
7H4284-49	Platinum DFE with 48 100Base-FX ports via MTRJ connectors and one expansion slot
7H4383-49	Platinum DFE with 48 10/100Base-TX ports via RJ21 connectors with one expansion slot (with Matrix E7 backplane connectivity)
7K4290-02	Platinum DFE with 2 10-Gigabit Ethernet 10GBase ports via XenPak

## Network Expansion Module (NEM)

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7G-6MGBIC-A	Network Expansion Module (NEM) with 6 1000Base-X ports via Mini-GBIC connectors
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## Software

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N-EOS-L3	Enterasys Operating System (EOS) Layer 3 advanced routing upgrade for Matrix N-Series
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## Mini-GBIC Modules

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MGBIC-LC01	Mini-GBIC with 1000Base-SX port via LC connector
MGBIC-LC03	Mini-GBIC with 1000Base-LX/LH (long-haul 2 km) over multimode fiber via LC connector
MGBIC-LC09	Mini-GBIC with 1000Base-LX port via LC connector
MGBIC-MT01	Mini-GBIC with 1000Base-SX port via MTRJ connector
MGBIC-02	Mini-GBIC with 1000Base-TX port via RJ45 connector
MGBIC-08	Mini-GBIC with 1000Base-LX/LH (long-haul 70 km) port via LC connector.

*All Platinum DFEs ship with Enterasys' Operating System (EOS). The only exceptions are the advanced routing features that are provided through a software license (Part No. N-EOS-L3)*

# Platinum Distributed Forwarding Engines (DFEs)

Modules for the Matrix E7/N-Series (continued)

## Ordering Information

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### 10-Gigabit Ethernet XenPak Modules

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10GBase-ER	10-Gigabit interface, 1550 nm, 9 micron single-mode fiber (40 km) via SC connector
10GBase-LR	10-Gigabit interface, 1310 nm, serial optic single-mode fiber (2-10 km) via SC connector
10GBase-LX4	10-Gigabit interface, 1310 nm, 62.5 and 50 micron multimode fiber (300 meters and 240 meters micron) or single-mode fiber (10 km) via SC connector
10GBase-SR	10-Gigabit interface, 850 nm, 62.5 and 50 micron multimode fiber (33 meters and 66 meter) via SC connector

### Other Options

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DFE-256MB-UGK 256 MB upgrade memory module

#### Notes:

1. *Platinum Distributed Forwarding Engines (DFEs) can be installed in any slot in the Matrix N7, N3 or E7 chassis.*
2. *The Matrix N7 and E7 can support up to seven DFE modules with the 1600W AC power supply (part number 6C207-3).*
3. *The Matrix N3 can support up to three DFE modules with the 863W AC Power Supply (part number 7C203-1).*
4. *DFE part number 7H4382-49 can be used either to bridge the FTM1 and FTM2 backplanes in the Matrix E7 chassis or to support the DFE Network Expansion Module (NEM).*
5. *DFE part number 7H4382-49 supports only the DFE NEM. It does not support Enterasys VHSIM or HSIM.*

# Gold Distributed Forwarding Engines (DFEs)

## Modules for the Matrix E7/N-Series



### Edge optimized for the enterprise

- Supports high-density, 10/100, 10/100/1000 and 100FX interfaces
- Cost-effective, scalable, edge connectivity

### Integrated Services Design

- Reduces the number/type of modules required; simplifies network design
- Lowers entry cost; lowers maintenance and sparring costs

### 1+1 system redundancy via software upgrade

- Switching, routing and management stateful failover; modules self-learn configurations
- Increases reliability and fault tolerance; reduces configuration time; maximizes uptime

### Common DFE design and feature set

- Common chassis, management (CLI, web management, etc.) and baseline features
- Simplified end-to-end enterprise deployment

The Gold Distributed Forwarding Engine (DFE) modules for the Matrix N-Series are designed specifically for high-density, 10/100, 10/100/1000 and 100FX network edge applications, providing a very cost-effective and flexible option for customers deploying switching at the edge of the network.

Leveraging Enterasys' nTERA ASICs, the Gold DFEs deliver scalable performance and flexibility to ensure comprehensive switching, routing, Quality of Service, security, and traffic containment unmatched by competitive solutions. The Gold DFEs are supported in the Matrix N3 and Matrix N7 for guaranteed investment protection across the entire platform.

Through a flexible, optional software upgrade, these modules support 1+1 redundancy and advanced routing for mission-critical network applications.

# Gold Distributed Forwarding Engines (DFEs)

Modules for the Matrix E7/N-Series (continued)

## Specifications

---

### Physical

#### Dimensions

46.43 cm (18.28") H x 6.05 cm (2.38") W x 29.51 cm (11.62") D

#### Weight

5.54 kg (12 lbs), gross shipping; 4.10 kg (9 lbs), net

### Environmental

#### Operating Temperature

5° C to 40° C (41° F to 104° F)

#### Non-Operating Temperature

-30° C to 73° C (-22° F to 164° F)

#### Operating Humidity

5% to 90% (non-condensing)

## Ordering Information

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4G4282-41	Gold DFE with 40 10/100/1000Base-TX ports via RJ45 connectors with one expansion slot
4G4202-60	Gold DFE with 60 10/100/1000Base-TX ports via RJ45 connectors
4H4282-49	Gold DFE with 48 10/100Base-TX ports via RJ45 connectors with one expansion slot
4H4202-72	Gold DFE with 72 10/100Base-TX ports via RJ45 connectors
4H4283-49	Gold DFE with 48 10/100Base-TX ports via RJ21connectors with one expansion slot
4H4203-72	Gold DFE with 72 10/100Base-TX ports via RJ21connectors
4H4284-49	Gold DFE with 48 100Base-FX ports via MTRJ connectors with one expansion slot

## Expansion Modules

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7G-6MGBIC-A Network Expansion Module (NEM) with 6 1000Base-X ports via mini-GBIC connectors

## MINI-GBIC Modules

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MGBIC-LC01	Mini-GBIC with 1000Base-SX port via LC connector
MGBIC-LC03	Mini-GBIC with 1000Base-LX/LH (long-haul 2 km) over multimode fiber via LC connector
MGBIC-LC09	Mini-GBIC with 1000Base-LX port via LC connector
MGBIC-MT01	Mini-GBIC with 1000Base-SX port via MTRJ connector
MGBIC-02	Mini-GBIC with 1000Base-TX port via RJ45 connector
MGBIC-08	Mini-GBIC with 1000Base-LX/LH (long-haul 70 km) port via LC connector

## Software Upgrades

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N-EOS-L3	Enterasys Operating System (EOS) Layer 3 advanced routing upgrade for Matrix N-Series switches
N-EOS-RED	Enterasys Operating System (EOS) 1+1 high availability upgrade for Matrix N-Series switches

### Notes:

1. Gold Distributed Forwarding Engines (DFEs) are designed to work seamlessly with other Gold DFEs in the same chassis; however, they cannot be mixed with Platinum DFEs in the same chassis.
2. By default, the Gold DFE does not provide high availability (system redundancy). To get 1+1 redundancy, the N-EOS-RED software license must be purchased and installed.
3. Basic EOS routing is included with each Gold DFE. EOS supports static routes and RIP.
4. Only one Advanced Routing Module (N-EOS-L3) is required per chassis (N3 or N7).
5. The Advanced Routing Package (N-EOS-L3) includes OSPF, DVMRP, and PIM-SM.

# Matrix E1

## Workgroup switches and Gigabit workgroup switch



### High-density Matrix workgroup switches with flexible uplinks

- 24 fixed 10/100 Ethernet ports with one modular expansion slot (IH582-25)
- 48 fixed 10/100 Ethernet ports with three modular expansion slots (IH582-51)
- 6 10/100/1000 RJ45 Gigabit Ethernet ports (1G582-09)
- Expansion slots support a variety of 10/100 or Gigabit Ethernet connectivity options

### Line-rate performance to support bandwidth-intensive applications

- 24 Gbps switching capacity; exceeds 16 Mpps throughput (IH582-51, 1G582-09)
- 10 Gbps switching capacity; exceeds 6.5 Mpps throughput (IH582-25)

### Standards-based switching and routing support

- IEEE 802.1D; IEEE 802.1Q VLANs
- IP v4 Routing; RIP v1/v2 and OSPF; IGMP multicast support

### Superior Quality of Service (QoS)

- 802.1p support 4 queues per port DiffServ support hardware-based rate limiting

### Simplified management

- Extensive remote management capabilities via NetSight Atlas
- Management performed via CLI, web browser or any SNMP-based application
- Supports RMON as well as extensive port trunking/mirroring

### Industry-leading security

- Supports management authorization and authentication via IP Access Control Lists, RADIUS Authentication
- Delivers port-based MAC address locking and support for the 802.1X Authentication standard

Ideally suited to high-performance workgroup deployment, the Matrix E1 1H582-51 Workgroup Switch, IH582-25 Workgroup Switch and 1G582-09 Gigabit Workgroup Switch are wire-speed Layer 3 switches with full IP routing functionality. The 1H582-51 provides 48 fixed 10/100 Ethernet ports and three flexible expansion slots, and the IH582-25 provides 24 fixed 10/1000 Ethernet ports and one flexible expansion slot, while the Matrix 1G582-09 provides 6 fixed 10/100/1000Base-TX RJ45 ports as well as three flexible expansion slots. The expansion slots support 10/100 and Gigabit Ethernet connectivity.

These switches feature a robust set of switching and routing features and built-in support for RMON, port trunking and port mirroring capability as well as redundant AC power supplies.

Using advanced multilayer frame classification, they allow network administrators to meet business needs by differentiating between business-critical and non-business critical traffic, without sacrificing performance.

# Matrix E1

Workgroup switches and Gigabit workgroup switch (continued)

## Specifications

---

### Physical

**Dimensions**

8.9 cm (3.5") H x 44.45 cm (17.5") W x 43.9 cm (17.3") D

**Rack Unit Height**

2

**Weight**

8.75 kg (19.23 lbs)

### Environmental

**Operating Temperature**

5° C to 40° C (41° F to 104° F)

**Non-Operating Temperature**

-30° C to 73° C (-22° F to 164° F)

**Operating Humidity**

5% to 90% (non-condensing)

## Ordering Information

---

1H582-51	48-port 10/100 standalone switch with 3 option slots
1H582-25	24-port 10/100 standalone switch with 1 option slot
1G582-09	6-port 10/100/1000 switch with 3 option slots

## GBIC/MGBIC Modules

---

GPIM-01	Gigabit Ethernet PIM with 1 1000Base-SX SC port
GPIM-02	Gigabit Ethernet PIM with 1 1000Base-TX RJ45 port
GPIM-08	Gigabit Ethernet PIM with 1 1000Base-SX SC port
GPIM-09	Gigabit Ethernet PIM with 1 1000Base-LX SC port
MGBIC-LC01	Mini-GBIC with 1000Base-SX via LC connector
MGBIC-LC03	Mini-GBIC with 1000Base-SX (2Km Long Haul) via LC connector
MGBIC-08	Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector
MGBIC-LC09	Mini-GBIC with 1000Base-LX via LC connector
MGBIC-02	Mini-GBIC with 1000Base-T via RJ45 connector
MGBIC-MT01	Mini-GBIC with 1000Base-SX via MTRJ connector

# Matrix E1

## Gigabit Distribution Switch



### Mixed fixed-modular platform

- 6 Gigabit Ethernet ports via mini-GBICs with 3 modular expansion slots
- Up to 12 fiber Gigabit Ethernet or half copper/half fiber Gigabit Ethernet configuration

### Line-rate performance

- 24 Gbps switching capacity; exceeds 16 Mpps throughput

### Switching and routing support

- Spanning Tree; Rapid Reconfiguration Spanning Tree; IEEE 802.1Q
- IPv4 Routing with RIP, OSPF and VRRP; IP Multicast with IGMP and DVMRP; Link Aggregation; Port Mirroring

### Superior Quality of Service

- IEEE 802.1p with 4 hardware priority queues/port; Layer 2, 3, 4 traffic classification; hardware-based rate limiting; ToS rewrite support

### Simplified management

- CLI or embedded web server; NetSight; RMON; SNMPv3, Telnet Access via SSHv2

### Industry-leading security

- 802.1X, and MAC-based authentication and port locking; RADIUS
- DoS prevention and enhanced ACL support

Ideal for networks that require high-performance, high-bandwidth connections and robust multilayer features, the Matrix E1 Gigabit Distribution Switch (GDS) can handle the demanding requirements of bandwidth-intensive enterprise applications such as videoconferencing, distance learning, enterprise resource planning, and disaster recovery as well as simultaneous intranet and Internet connectivity—all at wire speed.

The Matrix E1 GDS is ideally suited for wiring closet aggregation or for small to mid-sized network backbones. The Matrix E1 GDS is a 6-port Gigabit Ethernet switch with three expansion slots, which accept a variety of copper and fiber Fast and Gigabit Ethernet expansion modules.

# Matrix E1

## Gigabit Distribution Switch (continued)

### Specifications

---

#### Physical

**Dimensions**

8.9 cm (3.5") H x 44.45 cm (17.5") W x 43.9 cm (17.3") D

**Weight**

8.75 kg (19.23 lb)

#### Environmental

**Operating Temperature**

5° C to 40° C (41° F to 104° F)

**Non-Operating Temperature**

-30° C to 73° C (-22° F to 164° F)

**Operating Humidity**

5% to 90% (non-condensing)

### Ordering Information

---

1G587-09      6-port standalone Gigabit Distribution Switch (GDS) with three option slots

#### Expansion Modules

---

1H-8FX      Module with 8 100FX MMF MTRJ ports

1H-16TX      Module with 16 10/100 RJ45 ports

1G-2TX      Module with 2 10/100/1000 RJ45 ports

1G-2GBIC      Module with 2 GBIC slots

1G-2MGBIC      Module with 2 Mini-GBIC slots

#### GBIC/MGBIC Modules

---

GPIM-01      Gigabit Ethernet PIM with 1 1000Base-SX SC port

GPIM-02      Gigabit Ethernet PIM with 1 1000Base-TX RJ45 port

GPIM-08      Gigabit Ethernet PIM with 1 1000Base-SX SC port

GPIM-09      Gigabit Ethernet PIM with 1 1000Base-LX SC port

MGBIC-LC01      Mini-GBIC with 1000Base-SX via LC connector

MGBIC-LC03      Mini-GBIC with 1000Base-SX (2Km Long Haul) via LC connector

MGBIC-08      Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector

MGBIC-LC09      Mini-GBIC with 1000Base-LX via LC connector

MGBIC-02      Mini-GBIC with 1000Base-T via RJ45 connector

MGBIC-MT01      Mini-GBIC with 1000Base-SX via MTRJ connector

# Matrix C1

## Standalone workgroup switches



### Superior performance, capacity

- More than 17 Gbps switch fabric capacity and 13 Mpps throughput (C1H124-48)
- More than 24 Gbps switch fabric capacity and 36 Mpps throughput (C1G124-24)
- Stores more than 16K source addresses
- RIP and Static Route support

### High-availability services

- Optional redundant power supplies; 802.3ad Link Aggregation support; 802.1w STP Rapid Reconvergence support

### Advanced Quality of Service

- Broadcast suppression; IP Multicast; Rate Limiting; WRR and Strict Priority Queuing

### Sophisticated Security Services

- Secure communications via IEEE 802.1x User Authentication
- Secure management via SSH, SSL, SNMP v3, RADIUS, Port Mirroring

Ideal for connectivity at the network edge where individual users attach to the network, the Matrix C1 brings advanced technologies to the enterprise market. The Matrix C1 supports a wide variety of Layer 2 switching services including Layer 2/3/4 classification, rate limiting, 802.1w (Rapid Reconvergence), and 802.3ad (Link Aggregation).

The Matrix C1 C1H124-48 features 48 ports of non-blocking 10/100Base-TX connectivity and four Gigabit Ethernet uplink ports, while the Matrix C1 1G124-24 features 24 10/100/1000 ports and four Gigabit Ethernet uplink ports (Mini-GBICs). In the C1H124-48, the uplink ports are unique in that two are fixed 10/100/1000 RJ45s supporting 1000Base-TX connectivity while the other two ports support Mini-GBIC interfaces. The Mini-GBIC uplink slots support 1000Base-SX, 1000Base-LX, and extended reach LX up to 70 Km. The full wire-speed performance of the Matrix C1, as well as support for Ethernet and Gigabit Ethernet connectivity, makes it a perfect solution for desktop, server farm aggregation, and shared access environments.

# Matrix C1

## Standalone workgroup switches (continued)

### Specifications

---

#### Physical

**Dimensions**

4.39 cm (1.73") H x 44.45 cm (17.5") W x 44.0 cm (17.3") D

**Weight**

5.5 kg (12.1 lb)

#### Environmental

**Operating Temperature**

5° C to 40° C (41° F to 104° F)

**Non-Operating Temperature**

-30° C to 73° C (-22° F to 164° F)

**Operating Humidity**

5% to 90% (non-condensing)

### Ordering Information

---

C1H124-48 48-port 10/100 Ethernet switch with four Gigabit uplinks (two 10/100/1000 RJ45 ports plus two MGBIC ports)

C1G124-24 24-port 10/100 Ethernet switch with four Gigabit uplinks (four MGBIC ports)

#### MGBIC Modules

---

MGBIC-LC01 Mini-GBIC with 1000Base-SX via LC connector

MGBIC-LC03 Mini-GBIC with 1000Base-SX (2Km Long Haul) via LC connector

MGBIC-08 Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector

MGBIC-LC09 Mini-GBIC with 1000Base-LX via LC connector

MGBIC-02 Mini-GBIC with 1000Base-T via RJ45 connector

MGBIC-MT01 Mini-GBIC with 1000Base-SX via MTRJ connector

#### Accessories

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CSER-RPS-SYS One power supply chassis with one power supply

CSER-RPS-PSM Redundant power supply

# Matrix V2

## Workgroup switch



### Comprehensive switching features

- 8,000 MAC addresses
- IEEE 802.1p (4 priority queues), IEEE 802.1Q tagging VLAN (255 supported),
- IEEE 802.1w Rapid Spanning Tree, IEEE 802.3x Flow Control,
- IEEE 802.1D Spanning Tree protocol, Link Aggregation (802.3ad)
- IGMP (v1/v2) Snooping; Port Mirroring

### Quality of Service capabilities

- L2/L3/L4 traffic classification; Weighted Fair Queuing; Ingress/Egress Rate Limiting

### Flexible management options

- CLI; console interface; SNMP v1/v2; RMON (group 1,2,3 and 9); web-based management; BOOTP and DHCP client; dual firmware images; configuration file upload/download by TFTP; Multiple configuration files

### Integrated security features

- 802.1X port security; RADIUS; SSL; Access Control Lists

Ideally suited for Small-to-Medium Enterprise (SME) networks, the Matrix V2 delivers the perfect combination of features, performance and functionality—all at an affordable price. Key next-generation features include Layer 2 switching services, Layer 2/3/4 classification and rate limiting, 802.1w (Rapid Reconvergence), 802.3ad (Link Aggregation) and optional power redundancy.

Offered in two models (V2H124-24 and V2H124-24T), the Matrix V2 supports 24 ports of 10/100Base-TX with two expansion slots for either uplink connections and/or stacking modules. The expansion slots are technology independent and support 100Base-FX multimode and single mode fiber, 10/100/1000Base-TX with RJ45, and a combination Gigabit Ethernet module that supports either 10/100/1000Base-TX or 1000Base-SX/LX via Mini-GBICs. The stacking module supports up to eight units for a total density of 192 ports of 10/100Base-TX.

# Matrix V2

## Workgroup switch (continued)

### Specifications

---

#### Physical

**Dimensions**

44 cm (17.37") x 32.4 cm (12.76") x 4.3 cm (1.7")

**Weight**

4.22 kg (9.3 lbs)

#### Environmental

**Operating Temperature**

0° C to 50° C (32° F to 122° F)

**Non-Operating Temperature**

-40° C to 70° C (40° F to 158° F)

**Humidity**

10% to 90% (non-condensing)

### Ordering Information

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V2H124-24	Base system, 24-port managed switch, no uplinks
V2H124-24T	Base system with 24 10/100 ports and two V2G121-1, 1-port RJ45 1000Base-T uplink
V2G112-2	Combo Gigabit Ethernet uplink module; one RJ45 or MGBIC port
V2H151-1M	1-port 100-FX MMF
V2H151-1S	1-port 100-FX SMF
V2STACK	Stacking module with stacking cable

### MGBIC Modules

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MGBIC-LC01	Mini-GBIC with 1000Base-SX via LC connector
MGBIC-LC03	Mini-GBIC with 1000Base-SX (2Km Long Haul) via LC connector
MGBIC-08	Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector
MGBIC-LC09	Mini-GBIC with 1000Base-LX via LC connector
MGBIC-02	Mini-GBIC with 1000Base-T via RJ45 connector
MGBIC-MT01	Mini-GBIC with 1000Base-SX via MTRJ connector

# Matrix V-Series

## Power-over-Ethernet switch



### Power-over-Ethernet capabilities

- IEEE 802.3af compliant
- 15.4 watts per port for a total of 370 watts
- Centralized power management and monitoring
- Per port control for power, priority and safety
- Device detection mechanism assures safe interoperability with all Ethernet products

### Comprehensive features

- 8,000 MAC addresses
- Extensive IEEE standards support
- IGMP Snooping (v1/v2)
- Port Mirroring

### Quality of Service capabilities

- L2/L3/L4 traffic classification, Weighted Round Robin, Ingress/Egress Rate Limiting

### Flexible management

- Stack can be managed with a single IP address
- Command Line Interface; console interface; SNMP v1/v2/v3; RMON (groups 1, 2, 3 and 9); web-based management; BOOTP and DHCP client, dual firmware images; configuration file upload/download by TFTP

### Integrated security features

- IEEE 802.1x port security, RADIUS, SSL, SSH, Access Control Lists

Ideally suited for Small-to-Medium Enterprise (SME) networks, the Matrix V2 PoE switch delivers the perfect combination of features, performance and functionality—all at an affordable price. With integral power sourcing capability, the Matrix V2 PoE is the ideal Endspan PoE device for VoIP phones, wireless access points, security cameras and scanners. Inherent stackable capabilities plus support for multiple uplink technologies make the Matrix V2 PoE one of the most flexible and scalable switches on the market. Key next-generation features include Layer 2 switching services, Layer 2/3/4 classification and rate limiting, 802.1w (Rapid Reconvergence) and 802.3ad (Link Aggregation).

The Matrix V2 PoE provides 48 volts of power over the normally unused pairs of each Category 5 Ethernet cable, which makes it extremely valuable in deploying VoIP phones, remote security scanners and cameras and many wireless access points.

# Matrix V-Series

Power-over-Ethernet switch (continued)

## Specifications

---

### Physical

**Dimensions**

44 cm (17.37") x 32.4 cm (12.76") x 4.3 cm (1.7")

**Weight**

5.9 kg (13 lbs)

### Environmental

**Operating Temperature**

0° C to 50° C (32° F to 122° F)

**Non-Operating Temperature**

-40° C to 70° C (40° F to 158° F)

**Humidity**

10% to 90% (non-condensing)

## Ordering Information

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V2H124-24P Matrix V2 with 24 10/100 Power-over-Ethernet ports via RJ45 and 2 combo Mini-GBICs

### MGBIC Modules

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MGBIC-LC01 Mini-GBIC with 1000Base-SX via LC connector

MGBIC-08 Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector

MGBIC-LC09 Mini-GBIC with 1000Base-LX via LC connector

MGBIC-MT01 Mini-GBIC with 1000Base-SX via MTRJ connector

MGBIC-02 Mini-GBIC with 1000Base-T via RJ45 connector

MGBIC-STACK Matrix V2 PoE stacking module via Mini-GBIC

# Enterasys BL-6000ENT

## 24-port mid-span power hub



### Power-over-Ethernet cabling system for increased reliability

- Provides power to IP phones, wireless LAN access points, security cameras, and other low-voltage devices
- Extends range of installation locations
- Modules auto-detect power requirement and offer transparent 10/100 Mbps operation
- Current-limited for short circuit protection with power isolation of 1500Vrms

### Hot swappable for continued operation

- Add or remove modules without powering down the unit or disconnecting other attached devices

### Standards based to ensure interoperability

- Supports IEEE 802.3af

The Enterasys Mid-Span Power Hub provides a safe and efficient way to power IP phones, wireless LAN access points, security cameras and other LAN devices without using an external power supply for each device. Power is supplied over the existing LAN data cabling system, greatly improving the range of installation locations for such devices since they no longer need to be located near a power outlet. It also adds an unprecedented level of safety and reliability for powered LAN devices.

The Mid-Span Power Hub BL-6000ENT is a 24-port rackmount chassis that can power up to 24 devices. Each bank of eight modules is hot-swappable so that modules may be added to the chassis without powering down the unit. If an individual power port is damaged due to a lightning strike or power surge, the module bank may be hot swapped without powering down the chassis or disconnecting the devices attached to other power ports in the chassis.

When used with an uninterruptible power supply, the Mid-Span Power Hub provides non-stop power for up to 24 connected devices. Continuous operation of powered LAN devices is assured, while costly downtime is avoided. The Mid-Span Power Hub also eliminates the need to install costly uninterruptible power supplies for each powered LAN device, saving time and money.

# Enterasys BL-6000ENT

24-port mid-span power hub (continued)

## Specifications

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### Physical

---

#### Dimensions

44.45 cm (17.5") W x 41.28 cm (16.25") D x 4.45 cm (1.75") H

#### Weight

---

9 kg (20 lbs)

### Environmental

---

#### Operating Temperature

0° C to 40° C (32° F to 105° F)

#### Non-Operating Temperature

-10° C to 60° C (14° F to 140° F)

#### Relative Humidity

10% to 90% (non-condensing)

## Ordering Information

---

BL-69224ENT 24-slot Mid-Span Power Hub chassis only, 19" rackmount ready

### Chassis, Complete with Modules

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BL-69524ENT 24 power and data ports; IEEE 802.3af compatible

### Individual Chassis Modules

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BL-69500ENT 8-port IEEE 802.3af module

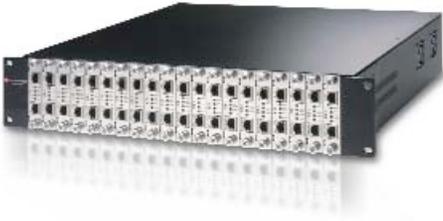
### Chassis, Cover Plates for Unused Slots

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BL-69201ENT Single-module cover plate

# Enterasys BL-8000ENT

10-slot and 20-slot mid-span power hubs



## Power-over-Ethernet cabling system for increased reliability

- Provides power to IP phones, wireless LAN access points, security cameras, and other low-voltage devices
- Extends range of installation locations

## Accommodates 20 individual power modules

- Current-limited for short circuit protection with power isolation of 1000Vrms
- Replaceable fuses enable recovery from power surge or lightning damage
- Modules auto-detect power requirement and offer transparent 10/100 Mbps operation
- Four diagnostic LEDs

## Hot swappable for continued operation

- Add or remove modules without powering down the unit or disconnecting other attached devices

## Standards based to ensure interoperability

- Supports IEEE 802.3af
- Supports different proprietary Power-over-Ethernet mechanisms

Enterasys Mid-Span Power Hubs provide a safe and efficient way to power IP phones, wireless LAN access points, security cameras and other LAN devices without using an external power supply for each device. Power is supplied over the existing LAN data cabling system, greatly improving the range of installation locations for such devices since they no longer need to be located near a power outlet. It also adds an unprecedented level of safety and reliability for powered LAN devices.

The Enterasys BL-8000ENT Mid-Span Power Hub is available in 10-slot or 20-slot rackmount chassis that can accommodate up to 10 or 20 individual modules, respectively. Each module is hot-swappable so that modules may be added to the chassis without powering down the unit. For safety, each module has its own DC-to-DC converter, which is voltage-isolated from the other ports. Each module is separately fused and protected from any unexpected current surge. If a power surge should occur, either through a building electrical system or lightning strike, the Mid-Span Power Hubs take the force and help protect the valuable equipment attached. If an individual power module is damaged due to misuse or a very large power surge, the unit may be hot swapped without powering down the chassis or disconnecting the devices attached to other power modules in the chassis. The Enterasys BL-8000ENT Mid-Span Power Hub family also includes a single-port model to power an individual end station.

When used with an uninterruptible power supply, the Mid-Span Power Hubs provide non-stop power for up to 20 connected devices. Continuous operation of powered LAN devices is assured, while costly downtime is avoided. The Mid-Span Power Hubs also eliminate the need to install costly uninterruptible power supplies for each powered LAN device, saving time and money.

# Enterasys BL-8000ENT

10-slot and 20-slot mid-span power hubs (continued)

## Specifications

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### Physical

#### Dimensions

Single slot: 7.63 cm (3") W x 15.24 cm (6") D x 2.54 cm (1") H

10 slot: 25.4 cm (10") W x 37.47 cm (14.75") D x 8.89 cm (3.5") H

20 slot: 48.26 cm (19") W x 45.72 cm (18") D x 8.89 cm (3.5") H

#### Weight

Single slot: .41 kg (14.6 oz)

10 slot: 3.63 kg (8 lbs)

20 slot: 7.49 kg (16.5 lbs)

### Environmental

#### Operating Temperature

0° C to 40° C (32° F to 105° F)

Non-Operating Temperature

-10° C to 60° C (14° F to 140° F)

#### Relative Humidity

10% to 90% (non-condensing)

## Ordering Information

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### Chassis only, 19" rackmount ready

BL-89220ENT 20-slot Mid-Span Power Hub chassis

BL-89210ENT 10-slot Mid-Span Power Hub chassis

BL-89210-RMENT Rackmount kit for 10-slot chassis

### Chassis, Complete with 20 Chassis Modules

BL-89420ENT 20 power and data modules; 24-volt support

BL-89520ENT 20 power and data modules; IEEE 802.3af

BL-89620ENT 20 power and data modules; Cisco protocol

BL-89720ENT 20 power and data modules; RoamAbout™

### Chassis, Complete with 10 Chassis Modules

BL-89710ENT 10 power and data modules; RoamAbout

### Chassis Modules, Individual

BL-89400ENT 24-volt power and data module

BL-89500ENT IEEE 802.3af power and data module

BL-89600ENT Cisco protocol power and data module

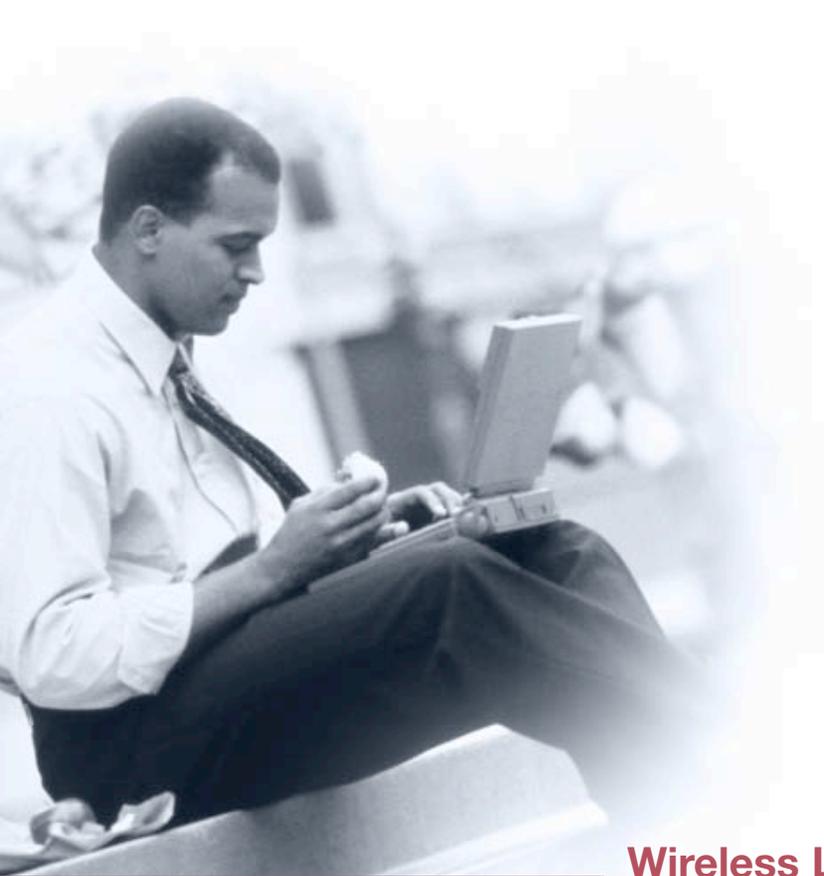
BL-89700ENT RoamAbout power and data module

### Single-Port Modules

BL-89451ENT Single power and data port; 24V protocol

BL-89551ENT Single power and data port; IEEE 802.3af compatible

BL-89651ENT Single power and data port; Cisco protocol



## Wireless LANs

*Award-winning wireless that securely  
and affordably empowers a more  
mobile workforce*

Enterasys' highly touted RoamAbout indoor and outdoor wireless LAN is a quick, secure and cost-effective way to provide instant connectivity to the network anywhere a cable or wire won't reach. Now all users can enjoy uninterrupted access to e-mail, the web or intranet—even when moving from one building to the next! Easy to set up and easy to manage, RoamAbout is revolutionizing the way people rely on the network to do business.

# RoamAbout R2 Wireless Access Platform

*Multilayer performance and control in a wireless LAN*



## Industry-leading security features

- Wireless VLAN and Secure Network Naming (SSID); 128-bit WEP encryption; Client authentication through static ACLs and RADIUS client; Protocol Filtering and Broadcast Rate Limiting; IEEE 802.1x Authentication (MD5, EAP/TLS, PEAP, TTLS); Rapid ReKeying provides a high level of security based on the 802.1x standard; SSH security for secure Telnet sessions; SNMPv3 management

## Expandable architecture for higher performance, seamless interoperability

- First to market that supports 802.11b, 802.11a and 802.11g technologies, bringing performance to 54 Mbps
- Dual slot for multiple technology support simultaneously
- Offers forward compatibility/upgradeability to higher speed WLAN standards
- Point-to-Point and Point-to-Multipoint support on the same platform
- 10/100 Ethernet uplink scales to meet evolving bandwidth needs, as well as the requirements of multiple high-speed radios

## Total system manageability—including policy management

- Management scales to support thousands of wireless nodes
- Manageable from RoamAbout AP Manager, NetSight Atlas, SNMPv3, Telnet and a web browser
- 802.1x/Extensible Authentication Protocol enables policy-based networking
- Dynamic load balancing spreads traffic across multiple access platforms

## Remote power injection reduces costs

- Saves on installation costs by powering the RoamAbout through the network cables

## Standards-based functionality protects investments

- Support for current and future radio technologies, including existing 802.11b radios
- Will support IEEE 802.11i, the proposed standard for security, and IEEE 802.11e Quality of Service for wireless

Highly-customizable and affordable, RoamAbout R2 is an expandable WLAN platform that provides advanced networking features and intelligence, an upgradeable architecture, and support for multiple technologies. These superior features offer a smooth technology migration, eliminating the need to upgrade an entire infrastructure or discard previously purchased PC radio cards, thus ensuring a higher return on investment and a lower total cost of ownership.

The R2 runs 802.11a/b/g radios simultaneously. In addition, the R2 delivers on the promise of 802.1x/Extensible Authentication Protocol and enables policy-based networking by making the network aware of users and their classifications.

Importantly, the RoamAbout R2 offers enhanced user mobility with uninterrupted access, vendor interoperability, easy installation and upgrades, free configuration tools—as well as the vital security you expect and the industry's first remote power offering over Ethernet solution.

# RoamAbout R2 Wireless Access Platform

Multilayer performance and control in a wireless LAN (continued)

## Specifications

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### Physical

#### Dimensions

62.3 mm (2.45") D x 173.4 mm (6.84") W x 200.8 mm (7.90") L

#### Weight

1.47 kg (3.25 lbs); weight includes plastic décor cover

### Environmental

#### Operating Temperature

-5° C to 50° C (23° F to 122° F)

#### Non-Operating Temperature

-30° C to 66° C (-22° F to 151° F)

#### Operating Humidity

5% to 95% (non-condensing)

## Ordering Information

RBTR2-AB	RoamAbout R2 wireless access platform (worldwide)
RBTRZ-AZ	RoamAbout Access Point with Mezzanine
RBTRC-MZ	RoamAbout Mezzanine adapter for additional radio card

## Multimode PC Cards

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RBTBG-AW	RoamAbout 802.11 a/b/g PC Radio Card for clients only
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### 802.11a PC Cards

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RBTFB-AX	RoamAbout 802.11a PC Radio Card (8 channels)
RBTFB-AL	RoamAbout 802.11a PC Radio Card (Low 4 channels)
RBTFB-AJ	RoamAbout 802.11a PC Radio Card (Japan 4 channels)

### 802.11b PC Cards

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CSICD-AW-128	RoamAbout 802.11b 128-bit Encryption PC Radio Card (World Card)
CSIBD-**-128	RoamAbout 802.11b Outdoor Radio Card (128-bit WEP/RC4 encryption)
CSILD-**128	RoamAbout Outdoor Radio Card (high gain matched for outdoor use in ETSI countries)

## Optional Products

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CSISA-AX	11 Mbps Wireless-to-Ethernet station adapter to connect Ethernet equipped end system to a wireless network (requires RoamAbout PC card CSICD-AW-128)
CSIPT-MP	RoamAbout Activation Key for Multipoint AP
CSI6CD-AW-128	RoamAbout PC Card with 128-bit encryption, 6-card bundle
CSI40CD-AW-128	RoamAbout PC Card with 128-bit encryption, 40-card bundle
RBTBX-PC	RoamAbout PCI Carrier (Requires PC Card CSICD-AW-128 or RBTBG-AW)
CSIBB-IA	RoamAbout indoor antenna—used for desktop PC applications where you want to extend the antenna or when Access Points are not ideally located
CSIWS-RM	RoamAbout rack mount for remote power injector (holds 3 injectors)
CSIWS-RMPER	RoamAbout remote power injector (spare/replacement)
RBTR2-PS3	RoamAbout replacement/redundant power supply 120-240 Vac

[Note: \*\* Use AA for FCC (North America and Australia), AB for ETSI (Europe and other regions), AF for Singapore, AJ for Japan]

# RoamAbout Outdoor Wireless

*High-performance, seamless building-to-building LAN connectivity*



## Point-to-Point and Point-to-Multipoint Outdoor Solution

- RoamAbout R2 compatible

## Easy to install and manage

- Quick and easy installation; no monthly fees; no special permits or licenses
- Plug-and-play; reliable connectivity without costly traditional wiring
- With the RoamAbout AP Manager, configure and manage Access Points, and determine best antenna orientation to guarantee a reliable link
- Multichannel operation allows separate, non-overlapping wireless links in the same area

## Flexibility and investment protection

- Flexible configuration for both indoor and outdoor use eliminates need to purchase new products if environments change
- Upgrade to 54 Mbps with new 802.11 a/b/g radio card in Q4 04

## Industry-leading security

- 128-bit encryption delivers cutting-edge wireless technology without sacrificing security
- Standard RMON support/SNMP compliant

Ideal for any organization with multiple buildings seeking to avoid recurring wide area charges or the installation of a cable plant infrastructure, RoamAbout Outdoor Solutions extend wireless connectivity for improved user mobility and productivity—between two buildings or across an entire campus.

RoamAbout is based on the IEEE 802.11 standard to provide seamless wireless data communications. Both indoor and outdoor wireless solutions consist of the award-winning RoamAbout APs and radio cards for in-building applications—external antennas make it an outdoor solution. When the 14dB antennas are added, the outdoor wireless configuration is extended to 3.5 miles at an impressive 11 Mbps throughput. When combined with any third-party 24dB antenna, distances of 25 miles at 11 Mbps can be achieved.

Customers who lease or purchase T1 lines will find that RoamAbout is an extremely easy technology to deploy, as well as a viable, cost-effective alternative to traditional T1 lines.

Enterasys provides all the software management tools needed to configure and manage Access Points and clients. Enterasys was the first to offer 128-bit encryption capability for wireless bridges.

# RoamAbout Outdoor Wireless

High-performance, seamless building-to-building LAN connectivity (continued)

## Specifications

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### 14-dBi Directional Antenna

#### Physical

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**Size**  
45.7 cm (18")

**Mounting Method**  
Vertical mast with an outside diameter between 35 mm (1.4") and 42 mm (1.6") using u-bolts

#### Environmental

---

**Operating Temperature**  
-40° C to 60° C (-40° F to 140° F)

**Wind/Survival**  
At least 128 km/h (80 mph)

### 7-dBi Omni-Directional Antenna

#### Physical

---

**Size**  
45.7 cm (18")

**Mounting Method**  
Vertical mast with outside diameter up to 51 mm (2")

#### Environmental

---

**Operating Temperature**  
-40° C to 60° C (-40° F to 140° F)

**Wind/Survival**  
At least 128 km/h (80 mph)

## Ordering Information

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RBTED-AA \* RoamAbout 11 Mbps Outdoor Solution Bundle. Includes the RoamAbout R2 AP (RBTR2-AB), 14 dBi Yagi antenna (CSIES-AB-Y14), 50' RF cable (CSIES-AB-50), lightning arrester (CSIES-AB-LP), 50 cm pigtail cable (CSIES-AB-PT50), 11 Mbps adapter card with 128-bit encryption (CSIBD-\*\*-128) for FCC approved countries

RBTED-AB \* RoamAbout 11 Mbps Outdoor Solution Bundle. Includes the RoamAbout R2 AP (RBTR2-AB), 14 dBi Yagi antenna (CSIES-AB-Y14), 50' RF cable (CSIES-AB-50), lightning arrester (CSIES-AB-LP), 50 cm pigtail cable (CSIES-AB-PT50), 11 Mbps adapter card with 128-bit encryption (CSILD-AB) kit for ETSI approved countries

*\*One kit needed for each end of the link. RoamAbout solutions may also be purchased individually using single part numbers.*

RBTED-AA-M07 or RBTED-AB-M07  
RoamAbout 11 Mbps Outdoor Solution with Omni Antenna Bundle Configuration includes the same components as above, with the exception that the Yagi is replaced with the 7 dBi Omni-Directional Antenna (CSIES-AB-M07)

## Optional Products

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CSIPT-MP RoamAbout Multipoint Activation Key

CSILD-\*\* and CSILD-\*\*-128  
RoamAbout HiGain Matched PC Cards for outdoor use with the Yagi Antennas

*[Note: \*\* Use AB for ETSI (Europe and other regions), AF for Singapore, AJ for Japan]*

CSIES-AB-PT50 RoamAbout Pigtail Cable (50cm) to connect the RoamAbout PC Card to an external antenna

CSIES-AB-PT250 RoamAbout Pigtail Cable (250cm) to connect the RoamAbout PC Card to the vehicle-mount antenna (CSIES-AB-M05)

CSIES-AB-LP Lightning arrester protects electronic equipment from lightning damage

CSIES-AB-C20 RoamAbout RF cable to connect the lightning arrester to the outdoor antenna; 20 feet of medium-loss cable

CSIES-AB-C50 RoamAbout RF cable to connect the lightning arrester to the outdoor antenna; 50 feet of low-loss cable

CSIES-AB-C75 RoamAbout RF cable to connect the lightning arrester to the outdoor antenna; 75 feet of low-loss cable

# RoamAbout AP3000

*Multi-technology wireless LAN access point*



## Multi-technology architecture

- Includes both an 802.11b/g radio card (2.4 GHz) and an 802.11a radio card (5 GHz) for maximum throughput

## Enhanced security

- Supports 128-bit WEP/WPA and 128-bit AES (802.11i ready) keys with WPA support
- Supports 802.1X User Authentication with Key Distribution
- Supports 64 VLANs based on PVID (RFC 3580) assignments and 802.1X authentication
- Supports per-session/per-user encryption
- Provides an enhanced access control mechanism to better manage who connects to the network

## Multiple management options

- Supports NetSight, SNMPv3, Telnet, web-management and a standard CLI
- Supports networks that scale from one to thousands of wireless nodes
- 10/100 Ethernet uplink
- High-bandwidth uplink delivers scalability to meet evolving business needs

## Remote power to reduce costs

- Supports 802.3af Power-over-Ethernet in unused pairs and in-data pairs

The RoamAbout AP3000 is designed with a multi-technology architecture to support both an 802.11b/g embedded radio and an 802.11a embedded radio. The RoamAbout AP3000 is also available with a single 802.11b/g embedded radio for customers who don't plan on moving to an 802.11a network and are looking at the cost of implementation.

The RoamAbout AP3000 offers enhanced security features such as WEP, WPA (Wi-Fi Protected Access), AES and SNMPv3, as well as manageability features that include NetSight Atlas console and NetSight Atlas Inventory Manager support, web management and Telnet management, including the standard CLI interface. At the same time, enhanced access control gives network managers complete control over who connects to the network.

# RoamAbout AP3000

Multi-technology wireless LAN access point (continued)

## Specifications

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### Physical

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#### Dimensions

21.83 cm (8.6") L x 13.73 cm (5.4") W x 3.27 cm (1.3") D

#### Weight

0.8 kg (1.76 lbs) (weight does not include plastic décor cover)

### Environmental

#### Operating Temperature

0° C to 55° C (131° F to 32° F)

#### Non-Operating Temperature

-20° C to 80° C (176° F to -4° F)

#### Operating Humidity

5% to 95% (non-condensing)

## Ordering Information

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RBT3K-AG	RoamAbout AP3000 wireless access point (multiband)
RBT3K-1G	RoamAbout AP3000 wireless access point (single 2.4 GHz band)
RBT3K-AG-G	RoamAbout AP3000 wireless access point (multiband). Made in America for federal customers
CSICD-AW-128	RoamAbout 802.11b PC Card for client
RBTBG-AW	RoamAbout 802.11a/b/g Multimode PC Radio Card for client



## Security Solutions

*A holistic solution to protect the enterprise internally and externally*

Enterasys leverages the advanced security-related features of its core networking products while providing dedicated security products—such as the Dragon Intrusion Defense System. A Secure Networks framework secures all parts of the enterprise network with the most advanced traffic profiling and intrusion defense solutions available. Unlike other industry security models, Secure Networks protects the entire networking infrastructure, including an organization's public Internet site, intranet and extranet.

# Dragon Network Sensor

Powerful network intrusion defense



## Open tunable signatures

- Implementation, modification, and custom creation of signatures to detect the attacks unique to each environment

## Multi-interface monitoring

- Combines multiple network interfaces into a single traffic stream, enabling dual-tap—without a switch

## IP defragmentation and TCP/UDP stream reassembly

- Identifies attackers who attempt to evade an IDS by distributing attacks over multiple packets

## Protocol decoding

- Identifies attackers who hide an attack within an application protocol

## IDS Denial of Service

- Countermeasures defeat tools such as “stick” and “snort”

## Event sniping

- Terminates an attack session via a TCP reset or ICMP unreachable message

## Dynamic reconfiguration

- Stops attacks through Checkpoint firewalls and blocks hackers on most commercial switches and routers

## Probe prevention

- Defeats or confuses scanning techniques with false responses

A sophisticated software- and appliance-based network intrusion defense system, the Dragon Network Sensor identifies misuse and attacks across the network. Placed at network aggregation points, the Dragon Network Sensor is unmatched in detecting intrusions via signature, protocol, and anomaly-based techniques. Application-based event detection detects non-signature-based attacks against commonly targeted applications including HTTP, RPC and FTP. These multimethod detection techniques—combined with an extensive, frequently updated signature database and false-positive tuning capabilities—ensure that no intrusion goes undetected.

When an attack is detected, Dragon Network Sensor employs a variety of Active Response techniques to block the would-be intruder, including taking action to stop the sessions and reconfiguring firewall policies or switch and router Access Control Lists.

Dragon Network Sensor offers market-leading deep forensics capabilities, including flexible packet capture, complete session reconstruction, and highly configurable Session VCR (collects all session information for services such as HTTP, FTP, POP and certain IPs or networks) that is needed to analyze network-based attacks.

Dragon Network Sensor is centrally managed via **Dragon Enterprise Management Server**, which provides signature and configuration updates, as well as reporting and event management, including event description, source/destination IP, source/destination port, offending packet, session (if configured), and timestamp.

# Dragon Network Sensor

Powerful network intrusion defense (continued)

## Specifications

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### Physical

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#### Dimensions

4.32 cm (1.7") H X 42.9 cm (16.9") W X 58.42 cm (23") D (FE100 only)

4.32 cm (1.7") H X 42.9 cm (16.9") W X 60.71cm (23.9") D

### Environmental

---

#### Operating Temperature

+5° C to +35° C (41° F to 95° F) (maximum change not to exceed +10° C)

#### Non-Operating Temperature

-40° C to +70° C (-40° F to 158° F) (ambient)

#### Non-Operating Humidity

95% at 35° C (non-condensing)

## Ordering Information

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### Network Sensor Appliance

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DSNSA-FE100-TX	Dragon FE100 Network Sensor Appliance for the small/branch office
DSNSA-GE250-TX	Dragon GE250 Network Sensor Appliance for the regional office, small data center (copper network interface card)
DSNSA-GE250-SX	Dragon GE250 Network Sensor Appliance for the regional office, small data center (fiber network interface card)
DSNSA-GE500-SX	Dragon GE500 Network Sensor Appliance for the data center (fiber network interface card)
DSNSA-GE500-TX	Dragon GE500 Network Sensor Appliance for the data center (copper Gigabit network interface card)

### Sensor/Management Appliances

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DSISA2-TX	INS2 Integrated Network Sensor/Server (copper network interface card)
DSISA2-SX	INS2 Integrated Network Sensor/Server (fiber network interface card)

# Dragon Host Sensor

Scalable, flexible host-based intrusion defense



## Application Intrusion Prevention

- Averts attacks on the most widely used web applications, IIS and Apache
- Monitors file attributes such as owner, group, permissions, file size
- Monitors files or directories to determine if content has been changed via MD5 hash

## Log file analysis

- Analyzes any file or directory against a signature policy

## Windows event log and registry analysis

- Monitors Windows event logs for sign of misuse or attack
- Analyzes the Windows registry for attributes that should not be accessed and/or modified

## TCP/UDP service detection

- Monitors for opened TCP and UDP ports, providing critical protection against back-door services

## Kernel monitoring

- Detects suspicious privilege escalations and other signs of kernel-level compromise

## Custom module interface

- Provides an open and easy interface for custom module development

A host-based intrusion defense tool, Dragon Host Sensor prevents web attacks and monitors individual systems running today's most common operating systems, for evidence of malicious or suspicious activity in real time.

Dragon Host Sensor may be deployed on a protected host where it uses a variety of techniques to detect attacks and misuse on the system, including analyzing the security event log, checking the integrity of critical configuration files, or checking for kernel-level compromises. This hybrid approach ensures that no misuse goes undetected.

Dragon Host Sensor may also be deployed on a dedicated analysis system where logs are forwarded and analyzed from most commercial firewalls, routers, switches and other IDS devices. Correlating events from these devices and from Dragon Network and Host Sensors is critical in identifying which events are the most serious, as well as understanding their origin and impact.

The new Dragon Host Sensor **Application Intrusion Prevention** module averts attacks on the most commonly targeted applications—such as DNS servers, mail servers, and web servers running Microsoft IIS and Apache.

Using non-conventional techniques to identify attempted intrusions or general misuse, the Host Sensor can be installed on a dedicated system to create a “deceptive” server designed to entice an alarm on attempted intrusions by simulating a fake web server, telnet server, or mail server.

# Dragon Host Sensor

*Scalable, flexible host-based intrusion defense*

## Specifications

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### Technical

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#### Operating Systems

Dragon Host Sensor: Windows NT/2K/XP, Sparc Solaris (versions 8 and 9), AIX (versions 4.3.3 and 5.X), HPUX (version 11.x), and Linux Distributions: Red Hat (versions 8.0 and 9.0), SuSE (version 8.1), Mandrake (version 9), Slackware (version 8.1) and Debian

## Ordering Information

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DSHSS-WIN	Dragon Host Sensor software for Windows
DSHSS-LNX	Dragon Host Sensor software for Linux
DSHSS-SOL	Dragon Host Sensor software for Solaris
DSHSS-HPX	Dragon Host Sensor software for HP-UX
DSHSS-AIX	Dragon Host Sensor software for AIX

# Dragon Enterprise Management Server

*Complete monitoring and control*



## **Web-based management interface**

- Allows platform-independent administration of the IDS system from any browser

## **Continuous signature updates**

- New signatures are automatically sent to customers

## **System-level management**

- Enables all network or host sensors to be configured and updated simultaneously with new configuration parameters or signatures

## **Custom signature development**

- Allows you to create your own signatures to detect whatever events are most critical to each environment

## **Event analyzer**

- Allows you to view events in either real time or from a historical perspective

## **Management reports**

- Offer easy-to-understand aggregated data on the events detected, classified by level of attack and the timeframe of detection

## **Session reconstruction**

- Allows you to view the entire session related to an event, including the packets involved

Dragon Enterprise Management Server is made up of a number of highly integrated technologies. Web-based and centralized, the new Policy Management tools offer easy-to-use enterprise-wide management of small and large-scale Dragon deployments.

Dragon Policy Manager provides centralized management and monitoring of all Dragon components, while Alarmtool offers centralized alarm and notification management.

A centralized collection of all security alert information, Security Information Management applications provide monitoring, analysis, and reporting of security events through real-time, trending and forensics consoles.

Event Flow Processors aggregate events from network and host sensors and forward them to the server.

# Dragon Enterprise Management Server

*Complete monitoring and control (continued)*

## Specifications

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### Environmental

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#### Operating Temperature

+5° C to +35° C (41° F to 95° F)  
(maximum change not to exceed +10° C)

#### Non-Operating Temperature

-40° C to +70° C (-40° F to 158° F) (ambient)

#### Non-Operating Humidity

95% at 35° C (non-condensing)

## Ordering Information

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### Dragon Policy Manager Software

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DSEMS            Dragon Enterprise Management software

### Dragon Management Appliances

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DSEMA2        Dragon Enterprise Management Server

DSEPA2        Dragon Event Flow Processor

### Sensor/Management Appliances

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DSISA2-TX     INS2 Integrated Network Sensor/Server (Copper network interface card)

DSISA2-SX     INS2 Integrated Network Sensor/Server (Fiber network interface card)

# Dragon Remote Site Appliance

*Network-based intrusion detection in a smaller device*



## **Network-based intrusion detection for the branch office**

- Detects threats and attacks at remote sites
- Access to 2,000 signatures from the Dragon library

## **Based on award-winning XSR platform**

- Provides tight security in remote locations

## **Easy to deploy locally; manage remotely**

- Small form factor and rack-mountable design specifically for remote locations
- Plug-and-play operation
- Managed remotely from a central Dragon Enterprise Management Server

Dragon Remote Site (RS) Appliance is a cost-effective, rack-mountable, network-based intrusion detection sensor for the remote office, based on Enterasys' award-winning XSR-1850 platform.

Designed to meet the needs of remote sites of large enterprises, or of Managed Security Service Providers (MSSP) who support the Small-to-Medium Business Market, Dragon RS provides a secure method for detecting the attacks and threats to a regional or branch office, ensuring that these locations receive the same level of coverage as an organization's headquarters.

Offering plug-and-play operation at the remote site, the Dragon RS is designed to be managed from a **Dragon Enterprise Management Server** deployed at an organization's headquarters. The Dragon Enterprise Management Server has a full view of the events and threats that could jeopardize the remote location. Signature updates and alarms are sent between the Dragon RS and the Dragon Enterprise Management Server, ensuring comprehensive monitoring. In addition, Dragon RS can be configured remotely.

The Dragon RS is provided with Linux V.2.4.20 customized for the Power PC as the hardened operating system, as well as Dragon Network Sensor software. The Dragon RS has two 10/100 UTP ports, one for management and one for sniffing, with an orderable third port. There is also a Serial port (DB-9) for a modem connection for remote management.

# Dragon Remote Site Appliance

*Network-based intrusion detection in a smaller device (continued)*

## Specifications

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### Physical

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#### Dimensions

25.4 cm (10") L x 43.1 cm (17") W x 5.0 cm (2.0") H

#### Weight

4.08 kg (9 lbs)

### Environmental

---

#### Operating Temperature

0° C to 40° C (32° F to 104° F)

#### Non-Operating Temperature

-40° C to 70° C (-40° F to 158° F)

#### Operating Humidity

5% to 90% (non-condensing)

## Ordering Information

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Dragon-RS      Dragon Remote Site (RS) appliance



## Enterprise Management Solutions

*Highly graphical tools to maximize network availability, visibility and control*

Businesses look to Information Technology to deliver tangible e-commerce business processes, which maximize information capital resource availability, decrease security risks and increase service availability. Management solutions from Enterasys provide real-world e-business solutions through intuitive, scalable, multivendor configuration and management solutions that are designed to provide a solid return on investment for your organization.

# NetSight Atlas Console

## System-level management solution



### System-level command and control console

- Multi-element management approach bridges the functionality gap between complex network management systems and traditional element managers
- Provides system-level configuration, monitoring and troubleshooting capabilities such as device discovery, event management, logging and application maintenance via the Atlas Console
- Atlas Compass tool can be used to locate and report on the people and computers using the network

### Incorporates the best attributes of enterprise network management systems and element managers

- Non-monolithic, highly flexible, easily integrated
- Offers a balance between features, functionality and price

### Manage groups of network entities simultaneously

- Enables management and configuration of ports, devices, device classes, users, etc.

### Enhanced functionality via NetSight Atlas Plug-In Applications

- Optional modules provide specific, value-added capabilities to NetSight Atlas
- Use the advanced features of Enterasys hardware while reducing administrative burden and lowering total cost of ownership
- Applications include NetSight Atlas Automated Security Manager, NetSight Atlas Policy Manager, NetSight Atlas Inventory Manager and NetSight Atlas Router Services Manager

### Wide platform support

- Use on Windows NT/2000/XP or Solaris operating systems
- Can be deployed with HP OpenView on Solaris, providing a complete solution with one of the most popular NMS platforms and operating systems in the market

NetSight Atlas is the powerful command and control console from which NetSight management applications are launched. Designed to manage, monitor and configure an Enterasys network as a holistic system, NetSight Atlas improves network visibility and simplifies operation and management, making the network a less complex, utility-like service aligned to meet the needs of the business. In addition, NetSight Atlas' system-level approach effectively bridges the functionality gap between complex network management systems and traditional single element manager applications.

A system-level management tool, NetSight Atlas' inherent flexibility helps each enterprise meet the unique demands of its own business. "Plug-in" applications can be integrated into the Atlas Console, enabling organizations to take advantage of advanced features. Applications include NetSight Atlas Automated Security Manager, NetSight Policy Manager, NetSight Atlas Inventory Manager and NetSight Atlas Router Services Manager. For added flexibility, NetSight Atlas has been designed to work with Network Management Platforms such as HP OpenView.

# NetSight Atlas Console

*System-level management solution (continued)*

## Specifications

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### System Requirements

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#### **Solaris 2.7, 2.8**

Minimum: Ultra 10/20, 256 MB RAM

Recommended: Ultra 30/60, 512 MB RAM

300 MB free disk space

#### **Windows NT/2000/XP**

Minimum: P3-450 MHz, 256 MB RAM

Recommended: P3-866 MHz, 512 MB RAM

300 MB free disk space

## Ordering Information

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NSA-CD            NetSight Atlas CD

NSA-LIC           NetSight Atlas license for one copy of NetSight Atlas

# NetSight Atlas Automated Security Manager

*Bringing integrated security to the network infrastructure*



## **Ensures security using innovative “Location Services”**

- Instantly identifies the exact user port where an attack was sourced
- Allows business to continue while isolating the attacker only; other users are unaffected

## **A key element of Secure Networks**

- Provides threat containment using network policies
- Supports policy/role change based on a user’s configuration
- Provides security threat categorization and IDS signature scoping

## **Incorporates the best attributes of enterprise network management and intrusion defense**

- Provides a granular (per-user) policy for stopping unwanted threats and attacks
- Provides event log and reporting
- Offers granular, port-level control based on the threat and event type

## **Wide platform support**

- Use on Windows 2000, 2003 Server, and XP operating systems; Solaris v2.7, 2.8; Linux Red Hat v9 and Linux Enterprise ES v3
- Integrates with HP OpenView, providing a complete solution with one of the most popular NMS platforms in the market

NetSight Atlas Automated Security Manager is the industry’s first security application to make the critical connection between infrastructure and security. To do this, NetSight Atlas Automated Security Manager uses a revolutionary new technique to integrate the switching and routing infrastructure with Dragon Intrusion Defense technology, providing the ability to take action on the port on which an attack is identified.

NetSight Atlas Automated Security Manager takes security events from Dragon Intrusion Defense, locates the exact port on the Matrix switch where attacks are entering the network, and takes action on the port, stopping the threat. Using a “quarantine role” for the user connected to the port, the Matrix switch can dynamically deny, limit or change the characteristics of the user’s access to the network.

NetSight Atlas Automated Security Manager is the industry’s first product to stop threats and protect network and business operations dynamically. It is the first in a series of new Enterasys security applications designed to support Secure Networks.

# NetSight Atlas Automated Security Manager

*Bringing integrated security to the network infrastructure*

## Specifications

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### System Requirements

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#### **Windows 2000, XP, 2003 Server**

Recommended: P4, 2.4GHz, 1GB RAM  
600MB free disk space

#### **Solaris OS**

Solaris 2.7 & 2.8

Recommended: Ultra 30/60, 900MHz, 1GB RAM  
600MB free disk space

Linux Red Hat 9, Linux Enterprise ES

Recommended: P4, 2.4GHz, 1GB RAM  
600MB free disk space

### Ordering Information

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ASM-SE-LIC	NetSight Atlas Automated Security Manager—Small Enterprise, 0 to 250 nodes
ASM-ME-LIC	NetSight Atlas Automated Security Manager—Medium Enterprise, 251 to 2,000 nodes
ASM-LE-LIC	NetSight Atlas Automated Security Manager—Large Enterprise, 2,000 to 20,000 nodes
ASM-U-LIC	NetSight Atlas Automated Security Manager software license key for use with 20,001 to unlimited nodes (requires NetSight Atlas Console)
NSA-ASM-CD	NetSight Atlas Automated Security Manager CD (requires NetSight Atlas Console and a valid use license)

# NetSight Atlas Plug-in Applications

## NetSight Atlas Router Services Manager



### Supports Firewall management

- Configures policies; defines network and service objects; monitors utilization at an interface level and issues alarms

### Easy to deploy

- Intuitive graphical representation greatly simplifies deployment
- Applications can be added and/or upgraded without modifying or reinstalling the entire system

### System-level control

- Allows devices to be grouped together so that configurations can be deployed to an entire network system with a single action

### Event logging

- Catalogues all ACLs in a network system for reference or reuse

An advanced plug-in application for NetSight Atlas, NetSight Atlas Router Services Manager provides the ability to configure, monitor and manage Enterasys firewall applications. NetSight Atlas Router Services Manager offers a fast, easy way to define and configure Access Control Lists graphically and apply them to logical interfaces across multiple devices in the X-Pedition, Matrix E1 and XSR Security Router families. In addition, it allows the user to configure policies, filter definitions, and network and service objects for Enterasys' firewall features supported by the XSR.

NetSight Atlas Router Services Manager provides an intuitive graphical interface that eases the complexity of deployment and allows the user to implement the policy rule set dynamically to the entire network with a single action. The NetSight Atlas Router Services Manager application includes two components: the host application that provides the GUI and interacts with the user, and the embedded agent that runs on the XSR Security Router and exchanges configuration information with the host application. To facilitate the exchange of data, NetSight Atlas Router Services Manager is integrated into NetSight Atlas Console.

# NetSight Atlas Plug-in Applications

## NetSight Atlas Router Services Manager (continued)

### Specifications

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**X-Pedition Switch Router**

Must be running Native Command Line Interface 8.3

**Secure Communications**

Using SNMP v3 and SSL

**SNMP Client**

To communicate with X-Pedition (built into application)

**Device Support**

Up to 100 devices (no hard-set limitation in the application)

**ACL Definitions**

Up to 3200 definitions (average of 32 per device with no hardest number)

**Supported Rules**

Up to 100 rules per ACL definition (no hard-set number)

**Syslog Support**

Enable or disable sys logging

**Database Support**

Save/load information into a single database (.amd file)

**System Requirements**

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**Solaris 2.7, 2.8**

Minimum: Ultra 20, 128 MB RAM

Recommended: Ultra 60, 256 MB RAM, 150 MB free disk space

**Windows NT/2000/XP**

Minimum: P2-400 MHz, 128 MB RAM

Recommended: P3-550 MHz, 256 MB RAM, 75 MB free disk space

### Ordering Information

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NSA-RSM-LIC NetSight Atlas Router Services Manager (Single User License)

NSA-RSM-CD NetSight Atlas Router Services Manager (CD Version)

NSA-RSM-10D NetSight Atlas Router Services Manager 10-Device Support (Limited License)

Required Product NetSight Atlas Consol is required to use NetSight Atlas Router Services Manager

# NetSight Atlas Plug-in Applications

## NetSight Atlas Inventory Manager



### Advanced plug-in application for NetSight Atlas

- Provides value-added inventory and change management capabilities, enabling the advanced features of Enterasys hardware

### System-level cataloging of firmware, configurations and hardware

- Retains detailed information about firmware and configuration—including date and time, and success or failure of download—as well as an inventory in a centralized history log
- Organizes firmware by associating it with the supported devices
- Applies firmware upgrades to single or multiple devices simultaneously
- Saves device configurations as backup to restore or recover from a problem
- Inventories Enterasys products by type, serial number, asset tag information, firmware version, CPU type, CPU speed, memory, daughter cards, etc.

### Unique change-tracking functionality and audit trail

- Tracks configuration changes made by other Atlas applications, third-party management applications or the local console through a unified interface
- Audits devices to view the current configuration and compare it with previously saved configurations

### Task scheduler

- Convenient tool schedules firmware upgrades, configuration uploads/downloads, device configuration audits, device resetting and hardware account management

An advanced plug-in for NetSight Atlas, NetSight Atlas Inventory Manager is a multidevice management application, which provides system-level firmware, configuration and hardware cataloging information allowing network managers to inventory and change-manage the components and configuration of their Enterasys network. NetSight Atlas Inventory Manager enables users to take advantage of the enhanced features of Enterasys hardware and manage all Enterasys infrastructure components cohesively as a system as well as to maintain an organized central database for data collection and historic information reporting.

# NetSight Atlas Plug-in Applications

## NetSight Atlas Inventory Manager (continued)

### Specifications

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#### System Requirements

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##### **Solaris 2.7, 2.8**

Minimum: Ultra 10/20, 256 MB RAM

Recommended: Ultra 30/60, 512 MB RAM

300 MB free disk space

##### **Windows NT/2000/XP**

Minimum: P3-450 MHz, 256 MB RAM

Recommended: P3-866 MHz, 512 MB RAM

300 MB free disk space

### Ordering Information

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NSA-IM-CD      NetSight Atlas Inventory Manager CD

NSA-IM-LIC      NetSight Atlas Inventory Manager license key for one copy of NetSight Atlas Inventory Manager

Required Product      NetSight Atlas Console is required to use the NetSight Atlas Policy Manager

# NetSight Atlas Plug-in Applications

## NetSight Atlas Policy Manager



### **Investment protection**

- Works with the existing security system—there's no need to purchase an additional authentication server
- Fine-tunes Matrix classification capabilities to make them easy to use
- Fully compatible with other NetSight management software

### **Automated capabilities save time and resources**

- Offers ease of implementation, administration and troubleshooting
- Appropriate services available to each user, wherever they log on

### **Secure, reliable connectivity to network users**

- Gives appropriate services to the appropriate user
- The first line of defense against attacks at the closet point to the user
- Transparently provides complete security and control

### **Reduces complexity of the IT system**

- Minimizes network complexity as it increases functionality
- Each personal identity can now be discovered

### **JAVA-based, highly graphical, easy-to-use interface**

- Enables the discovery of each personal identity
- Precise view of the network as a system, rather than as individual devices

NetSight Atlas Policy Manager is the key to Role-Based Administration—the modeling of both IT and business concepts inherent in an Enterasys Secure Network. Through Role-Based Administration, software models turn technology abstractions into information meaningful to both business and technology personnel.

NetSight Atlas Policy Manager goes even further by providing a graphical view of the entire enterprise, not just individual devices. With NetSight Atlas Policy Manager, the overall network system can then be viewed as an overall “business system.” NetSight Atlas Policy Manager is JAVA-based, highly graphical and easy to use, making it faster and more “platform friendly.”

# NetSight Atlas Plug-in Applications

## NetSight Atlas Policy Manager (continued)

### Specifications

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#### System Requirements

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##### Solaris 2.7, 2.8

Minimum: Ultra 10/20, 256 MB RAM  
Recommended: Ultra 30/60, 512 MB RAM  
300 MB free disk space

##### Windows NT/2000/XP

Minimum: P3-450 MHz, 256 MB RAM  
Recommended: P3-866 MHz, 512 MB RAM  
300 MB free disk space

### Ordering Information

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NSA-PM-LICS	Single License for NetSight Atlas Policy Manager
NSA-PM-LIC	Single License for NetSight Atlas Policy Manager (for U.S. government customers only)
NSA-PM-CDS	NetSight Atlas Policy Manager evaluation CD; requires license for use beyond 60 days
NSA-PM-CD	NetSight Atlas Policy Manager evaluation CD; requires license for use beyond 60 days (for U.S. government customers only)
Required Product	NetSight Atlas Console is required to use the NetSight Atlas Policy Manager.



## Global Services

*Anytime, anywhere service for the  
highest performing enterprise*

Our full range of services can support you in all aspects of your network lifecycle to ensure top performance and availability. Enterasys focuses on key areas of networking and works collaboratively with partners on a worldwide basis to offer the technical expertise you need through a full range of services—including planning and installation services, security consulting, project management, site surveys and more—to ensure that your infrastructure performs at the highest level and delivers a higher return on investment.

# SupportNet

*Customer-centric support to ensure performance at the highest level*

- **Enhanced business performance**

The right level of support means a more efficient network, where applications run smoothly, users stay connected, assets remain secure and the job gets done—on time and on budget.

- **Improved network availability and increased productivity**

The SupportNet “safety net” can help you limit the effects of downtime and boost employee productivity, ensuring maximum revenue and customer satisfaction.

- **Reduce the total cost of ownership**

It’s likely that the lifecycle costs of operating your technology environment will exceed the initial purchase price, and SupportNet allows you to configure, maintain, support, upgrade and manage this environment cost effectively—for the greatest return on your investment.

- **More efficient use of scarce technical resources.**

Benefit from the knowledge and skills of talented technical staff—without investing in new personnel. And reduce the man-hours necessary to keep your infrastructure running at peak efficiency.

Enterasys’ focus on quality, dependability and responsiveness has contributed to a long-standing reputation for excellent customer service and support. With SupportNet, you’ll leverage Enterasys’ customer focus, technical expertise, and best practices to ensure that your infrastructure performs at the highest level.

Enterasys recognizes that each business’ needs are unique, and has developed a comprehensive set of support options from which to choose. The SupportNet portfolio is both flexible and innovative, allowing you to select the level of service that is right for your organization—and yields the best return for your infrastructure investment.

- **SupportNet**—The cornerstone offering of the portfolio features the core technical services required to support all your hardware products effectively. Services include telephone and Web support, firmware upgrades, and next-business-day parts delivery.
- **SupportNet Premium**—Building on the comprehensive support offered with SupportNet, SupportNet Premium provides faster response options for replacement parts: 2-hour or 4-hour around-the-clock delivery.
- **SupportNet Onsite**—If you don’t have the in-house resources to match your maintenance requirements, SupportNet Onsite brings Enterasys-certified engineers to your site, in addition to providing the other services included in SupportNet.
- **SupportNet Onsite Premium**—Delivering the same comprehensive level of engineering expertise to your premises as SupportNet Onsite, SupportNet Onsite Premium offers faster response options: 2-hour or 4-hour around-the-clock delivery.
- **SupportNet Software Application Service**—Maintain the best performance from your Enterasys software applications such as NetSight Atlas management and Dragon intrusion detection. Includes all maintenance releases plus minor and major product upgrades, 24x7 technical phone support, and Web access to the latest technical information.
- **SupportNet Technical Access**—Recommended for customers who have ample on-site technical resources, including staff and replacement inventory, this level of service provides telephone and Web support, return-to-factory repair service, and firmware upgrades.

# Professional Services

## *Ensuring the successful implementation of a Secure Network*

- Leverages your existing equipment or proposed new solution for maximum ROI
- Focused expertise and best practices to help you assess, plan, implement and operate the most effective network environment
- A phased approach customized to meet your unique needs—from product installation to end-to-end implementation support
- Tiered services to enhance and complement your organization's capabilities

Highly skilled and knowledgeable, Enterasys Professional Services team—including our certified partners—employs a variety of best-practice methods to help you with every phase of your networking project. The goal is to help you respond faster to evolving threats, increase operational efficiency, reduce deployment complexity, and ensure a higher return on investment.

### **Core Secure Networks Solutions**

Enterasys Professional Services enable you to deploy best-in-class Secure Networks solutions that ensure the highest level of security in your environment. Services include:

- **Secure Networks Readiness Assessment.** A service to identify the steps needed for a successful Secure Networks solution implementation.
- **Acceptable Use Policy Solution Implementation.** A service to ensure successful deployment of a security policy solution to ensure the acceptable use of network resources.
- **Secure Application Provisioning Solution Implementation.** A service to ensure the successful deployment of a role-based security policy solution for business application usage.
- **Secure Guest Access Solution Implementation.** A service to ensure the successful deployment of a security-driven visitor networking solution.
- **Dynamic Intrusion Response Solution Implementation.** A service to ensure the successful deployment of an automated security response solution for identified threats to the enterprise network.
- **Custom Secure Networks Solution Applications**
  - Secure Open Convergence
  - Secure Wireless
  - Single Sign-On
  - Distribution Layer Security
  - Secure Data Center

# Professional Services

## Ensuring the successful implementation of a Secure Network (continued)

### Infrastructure Services

Enterasys Professional Services' Infrastructure Services include implementation services and project management services.

- **Planning and Design Services.** Upgrade and/or migration planning and design services for infrastructure replacements or enhancements.
- **Network Configuration Services.** Advanced configuration services including policy development, VLAN and QoS configuration.
- **Implementation Services.** A range of services from staging, configuration, and testing to cutover and troubleshooting.
- **Other Value-Add Services.** Complementary, standalone services to assist you with IDS implementation, wireless implementation, and project management services.

### Value-Add Partner Services

Enterasys is committed to optimizing the value you gain with Enterasys Secure Networks solutions by maximizing our strategic partnerships. Enterasys has partnered with some of the world's most prestigious innovators—including Siemens, Microsoft, Lucent, SAP and Avaya—to ensure seamless technology integration for today's enterprises. Our Secure Networks Certified Partner Program, an interoperability certification program for security solutions, brings together some of the top visionaries in security applications (e.g., Zone Labs and Sygate), devices and services. The alliance allows us to leverage other organization's expertise in implementing comprehensive technology solutions for global enterprises, enabling us to provide a more tightly integrated Secure Network infrastructure to customers worldwide.

We also work with more than 400 major distributors, resellers and a network of worldwide systems integrators to deliver Networks that Know to global enterprises. Enterasys Certified Partner services include, and are not limited to, the following:

### Assessments

- Vulnerability assessments
- Wireless site surveys
- VoIP readiness assessments

### Planning and Design

- Technical evolution planning

### Implementation

- Stage, rack and stack, configure and test
- Test and troubleshoot
- Cutover or parallel network
- Authentication/authorization configuration services

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