

# A-Series A4

Stackable L2/L3 Edge Switch

## BENEFITS

### BUSINESS ALIGNMENT

- Extreme Networks policy capabilities support converged multimedia networks
- Reliable network operation for mission-critical applications

### OPERATIONAL EFFICIENCY

- Scalable architecture supports continued growth of network capacity
- Consolidated management capabilities reduce network operational expenses
- Highly available design ensures reliable network operations

### OPERATIONAL EFFICIENCY

- Network access secured by 802.1x, MAC address and web-based authentication methods
- Extreme Networks policy provided enhanced network security that is maintained concurrently with user mobility
- Architecture designed with integral network security

### SUPPORT AND SERVICE

- Industry-leading customer satisfaction and first call resolution rates
- Personalized services, including site surveys, network design, installation, and training
- Comprehensive lifetime warranty, including feature upgrades and more
- Release 6.61 adds policy and basic routing with support for two devices (PC and a phone) on a single port



- High-availability design assures reliable network operations
- Now with Extreme Networks policy and basic routing
- PoE supports a variety of network devices
- Investment protection via lifetime warranty
- 140.8 Gbps capacity and 104.8 Mpps

## Product Overview

The Extreme Networks A4 is a highly reliable fast Ethernet edge switch that provides scalable, wire-rate performance in support of the bandwidth-intensive and delay-sensitive requirements of today's demanding applications. The A4 also provides multi-layer packet classification and priority queuing for differentiated services. Along with a switch capacity of 17.6 Gbps, the A4 provides up to 48 10/100 Ethernet ports as well as 4 Gigabit Ethernet uplink ports. Leveraging the A4's stacking capability, as many as 8 A4s can be interconnected in a single stack to create a virtual switch that provides 140.8 Gbps of capacity and up to 384 10/100 Ethernet ports as well as 16 Gigabit Ethernet uplink ports.

The A4 includes enterprise-class features in a 10/100 stackable switch that ensure seamless connectivity and application performance. With support for 16,000 MAC addresses, the A4 is an excellent choice for medium to large enterprises that need to support thousands of endpoints. Support for Extreme Networks policy enables strong support for integrated multimedia networks, including Voice over IP (VoIP) and IP video, as well as all types of data-intensive applications. With the 6.61 firmware release, all A4s can now deploy separate policies for both a personal computer and a VoIP phone on a single switch port. In conjunction with its non-blocking L2 switching architecture, the A4's intelligent queuing mechanisms ensure that mission-critical applications receive prioritized access to network resources.

The A4 includes a 24 port model with a very quiet design that operates fan-less in a typical office environment, making it ideal for classrooms and conference rooms.

A highly-scalable architecture, Extreme Networks policy, basic routing and a lifetime warranty ensure that an A4 network investment will sustain a secure, feature-rich, and cost-effective network well into the future.

## Security

The A4 provides a secure network by utilizing its authentication and security features, which can be applied at the port level or at the user level. Making use of the Extreme Networks Network Management Suite's Policy Manager or a standard CLI, the Extreme Networks role-based architecture enables a network administrator to define distinct roles or profiles that represent operational groups within a business (e.g., employee, executive, guest, etc). Up to two devices (a PC and a VLA-tagging phone) per port can be authenticated via IEEE 802.1X, MAC address or web-based authentication, and then assigned a pre-defined operational role.

## Investment Protection

The A4 is a cost-effective, feature-rich, stackable switch that provides a broad set of features today and will continue to deliver benefits well into the future. With Release 6.61, the A4 now supports static routing as well as RIPv1/v2 routing. All A-Series products include a lifetime warranty that includes warranty and support services for which many competitors charge additional fees - adding up to 10% of initial deployment costs on an annual basis. Included benefits, such as advanced hardware return, firmware feature upgrades (which most vendors cover at most for 90 days) and telephone support (which most don't include or severely limit) combine to significantly decrease operational costs for customers over the life of their network. For more information regarding warranty terms and conditions please go to <http://www.ExtremeNetworks.com/support/warranty.aspx>.

## Performance & Scalability

The A4 provides scalable, wire-rate performance in support of the bandwidth-intensive and delay-sensitive requirements of today's demanding applications. Along with a switch capacity of 17.6 Gbps, the A4 provides up to 48 10/100 Ethernet ports as well as 2 modular Gigabit Ethernet and 2 10/100/10000 uplink ports. Leveraging the A4's wire-rate stacking capability, as many as 8 A4s can be interconnected in a single stack to create a virtual switch that provides 140.8 Gbps of capacity and up to 384 10/100 Ethernet ports as well as 16 Gigabit Ethernet uplink ports.

## Features / Standards and Protocols

### MAC Address Table Size

16,000

### VLANS

4,094 VLAN IDs

1,024 VLAN Entries per Stack

### Switching Services

ANSI/TIA-1057 - LLDP-MED

IEEE 802.1AB - LLDP

IEEE 802.1D - MAC Bridges

IEEE 802.1s - Multiple Spanning Trees

IEEE 802.1t - 802.1D Maintenance

IEEE 802.1w - Rapid Spanning Tree

Reconvergence

IEEE 802.3 - Ethernet

IEEE 802.3ab - GE over Twisted Pair

IEEE 802.3ad - Link Aggregation

IEEE 802.3af - PoE

IEEE 802.3i - 10Base-T

IEEE 802.3u - 100Base-T, 100Base-FX

IEEE 802.3z - GE over Fiber

Full/half duplex auto-sense support on all ports

IGMP Snooping v1/v2/v3

Jumbo Frame support (9,216 bytes)

Loop Protection

One-to-One and Many-to-One Port

Mirroring

Port Description

Protected Ports

Selectable LAG Configuration (6 x 8, 12 x 4, 24 x 2)

CoS MIB based Broadcast/ Multicast/

Unknown Unicast Suppression

Spanning Tree Backup Root

STP Pass Thru

### Security

ARP Spoof Protection

DHCP Spoof Protection

IEEE 802.1x Port Authentication

MAC-based Port Authentication

Password Protection (encryption)

Web-based Port Authentication

Dual User Authentication (PC + Phone)

Secure Networks Policy

RADIUS Accounting for network access

RADIUS Client

Secured Shell (SSHv2)

Secured Socket Layer (SSL)

### IPv4 Routing

Standard Access Control List (ACLs)

Extended ACLs

VLAN-based ACLs

ARP & ARP Redirect

IP Helper Address

RFC 826 - Ethernet ARP

RFC 1058 - RIP v1

RFC 1256 - ICMP Router Discovery

Messages

RFC 1519 Classless Inter-Domain Routing

RFC 1724 - RIPv2 MIB Extension

RFC 2236 - IGMPv2

RFC 2453 - RIP v2

RFC 3046 - DHCP/BootP Relay

RFC 3376 - IGMPv3

Static Routes

### MIB Support

Enterasys Networks Entity MIB

Enterasys Networks Policy MIB

ANSI/TIA-1057 - LLDP-MED MIB

IEEE 802.1AB - LLDP MIB

Enterasys Networks VLAN Authorization MIB

IEEE 802.1X MIB - Port Access

IEEE 802.3ad MIB - LAG MIB

RFC 826 - ARP and ARP Redirect

RFC 951 - BOOTP

RFC 1213 - MIB/MIB II

RFC 1493 - BRIDGE-MIB

RFC 1542 - DHCP/BOOTP Relay

RFC 1643 - Ethernet-like MIB

RFC 2096 - IP Forwarding Table MIB

RFC 2131, RFC 3046 - DHCP Client/Relay

RFC 2233 - IF-MIB

RFC 2271 - SNMP Framework MIB

RFC 2466 - ICMPv6 MIB

RFC 2571 - SNMP Framework MIB

RFC 2613 - SMON MIB

RFC 2618 - RADIUS Authentication Client MIB

RFC 2620 - RADIUS Accounting Client MIB

RFC 2668 - Managed Object Definitions

for 802.3 MAUs

RFC 2674 - P-BRIDGE-MIB

RFC 2674 - QBRIDGE-MIB VLAN Bridge MIB

RFC 2737 - Entity MIB (physical branch only)

RFC 2819 - RMON-MIB

RFC 2863 - IF-MIB

RFC 2933 - IGMP MIB

RFC 3413 - SNMP v3 Applications MIB

RFC 3414 - SNMP v3 User-based Security

Module (USM) MIB

RFC 3415 - View-based Access Control

Model for SNMP

RFC 3580 - IEEE 802.1X Remote

Authentication Dial In User Service

(RADIUS) Usage Guidelines

RFC 3584 - SNMP Community MIB

RFC 3621 - Power over Ethernet MIB

### VLAN Support

Generic Attribute Registration Protocol (GARP)

Generic VLAN Registration Protocol

(GVRP)

IEEE 802.1p - Traffic classification

IEEE 802.1q - VLAN Tagging

IEEE 802.1v - Protocol-based VLANs

IEEE 802.3ac - VLAN Tagging Extensions

Port-based VLAN (private port/private

VLAN)

Tagged-based VLAN

VLAN Marking of Mirror Traffic

### Management

Alias Port Naming

Command Line Interface (CLI)

Configuration Upload/Download

Dual IPv4/IPv6 Management Support

Editable Text-based Configuration File

FTP/TFTP Client

Multi-configuration File Support

NMS Automated Security Manager

NMS Console

NMS Inventory Manager

NMS Policy Manager

Node/Alias Table

RFC 768 - UDP

RFC 783 - TFTP

RFC 791 - IP

RFC 792 - ICMP

RFC 793 - TCP

RFC 826 - ARP

RFC 854 - Telnet

RFC 951 - BootP

RFC 1157 - SNMP

RFC 1901 - Community-based SNMPv2

RFC 2030 - Simple Network Time Protocol (SNTP)

RFC 2271 - SNMP Framework MIB

RFC 2465 - IPv6 MIB

RFC 2933 - IGMP MIB

RFC 3413 - SNMP Applications MIB

RFC 3414 - SNMP User-based Security

Module (USM) MIB

RFC 3415 - View-based Access Control

Model for SNMP

RFC 3826 - Advanced Encryption

Standard (AES) for SNMP

RMON (Stats, History, Alarms, Events)

Secure Copy (SCP)

Secure FTP (SFTP)

Simple Network Management Protocol

(SNMP) v1/v2c/v3

TACACS+ for Management Authentication,

Authorization and Auditing

SSHv2

Syslog

Telnet

Text-based Configuration Upload

/Download

Web-based Management

Webview via SSL Interface

### Quality of Service

6 User Addressable Priority Queues per Port

802.3x Flow Control

Ingress Rate Limiting

IP ToS/DSCP Marking/Remarking

IP DSCP - Differentiated Services Code

Point

IP Precedence

IP Protocol

Layer 2/3/4 Classification

Multi-layer Packet Processing

Mixed Queuing Control - Strict and

Weighted Round Robin

Source/Destination IP Address

Source/Destination MAC Address

### IPv6 Management

RFC 1981 - Path MTU for IPv6

RFC 2373 - IPv6 Addressing

RFC 2460 - IPv6 Protocol Specification

RFC 2461 - Neighbor Discovery

RFC 2462 - Stateless Autoconfiguration

RFC 2463 - ICMPv6

RFC 3587 - IPv6 Global Unicast Address

Format

RFC 4007 - IPv6 Scoped Address

Architecture

RFC 4291 - IP Version 6 Addressing

Architecture

# Switch Model Specifications

|  | A4H124-24  | A4H124-24P   | A4H124-48  | A4H124-48P   |
|--|--|--|--|--|
| <b>Performance</b>                                   |  |  |  |  |
| Throughput Capacity wire-speed Mpps (switch / stack) | 9.5 Mpps / 76.2 Mpps   | 9.5 Mpps / 76.2 Mpps   | 13.1 Mpps / 104.8 Mpps   | 13.1 Mpps / 104.8 Mpps   |
| Switching Capacity (switch / stack)                  | 12.8 Gbps (9.5 Mpps) / 102.4 Gbps (76.2 Mpps)  | 12.8 Gbps (9.5 Mpps) / 102.4 Gbps (76.2 Mpps)  | 17.6 Gbps (13.1 Mpps) / 140.8 Gbps (104.8 Mpps)  | 17.6 Gbps (13.1 Mpps) / 140.8 Gbps (104.8 Mpps)  |
| Stacking Capacity (switch / stack)                   | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br><br>No dedicated stacking on A4; Up to two Gigabit uplinks can be used for stacking or uplinks   | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br><br>No dedicated stacking on A4; up to two Gigabit uplinks can be used for stacking or uplinks   | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br><br>No dedicated stacking on A4; up to two Gigabit uplinks can be used for stacking or uplinks   | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br><br>No dedicated stacking on A4; up to two Gigabit uplinks can be used for stacking or uplinks   |
| Aggregate Throughput Capacity (switch / stack)       | 12.8 Gbps (9.5 Mpps) / 102.4 Gbps (76.2 Mpps)  | 12.8 Gbps (9.5 Mpps) / 102.4 Gbps (76.2 Mpps)  | 17.6 Gbps (13.1 Mpps) / 140.8 Gbps (104.8 Mpps)  | 17.6 Gbps (13.1 Mpps) / 140.8 Gbps (104.8 Mpps)  |
| <b>PoE Specifications</b>                            |  |  |  |  |
| 802.3af Interoperable                                | N/A  | Yes  | N/A  | Yes  |
| System Power   | N/A  | 370 watts per switch with up to 15.4 watts per port<br>Per-port switch power monitor:<br>• Enable/disable<br>• Priority safety<br>• Overload & short circuit protection  | N/A  | 415 watts per switch with up to 15.4 watts per port<br>Per-port switch power monitor:<br>• Enable/disable<br>• Priority safety<br>• Overload & short circuit protection  |
| <b>Physical Specifications</b>                       |  |  |  |  |
| Dimensions (H x W x D)                               | H: 4.4 cm (1.73")<br>W: 44.1 cm (17.36")<br>D: 20.7 cm (8.15")   | H: 4.4 cm (1.73")<br>W: 44.1 cm (17.36")<br>D: 36.85 cm (14.51")   | H: 4.4 cm (1.73")<br>W: 44.1 cm (17.36")<br>D: 36.85 cm (14.51")   | H: 4.4 cm (1.73")<br>W: 44.1 cm (17.36")<br>D: 36.85 cm (14.51")   |
| Net Weight   | 2.58 kg (5.69 lb)  | 5.50 kg (12.13 lb)   | 4.59 kg (10.12 lb)   | 6.00 kg (13.23 lb)   |
| MTBF   | 408,618 hours  | 286,587 hours  | 323,946 hours  | 232,259 hours  |
| Physical Ports                                       | <ul style="list-style-type: none"> <li>• (24) 10/100 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) SFP ports</li> <li>• (2) Gigabit stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> | <ul style="list-style-type: none"> <li>• (24) 10/100 PoE (.af) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) SFP ports</li> <li>• (2) Gigabit stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> | <ul style="list-style-type: none"> <li>• (48) 10/100 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) SFP ports</li> <li>• (2) Gigabit stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> | <ul style="list-style-type: none"> <li>• (48) 10/100 PoE (.af) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) SFP ports</li> <li>• (2) Gigabit stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> |
| <b>Power Requirements</b>                            |  |  |  |  |
| Normal Input Voltage                                 | 100 - 240 VAC  | 100 - 240 VAC  | 100 - 240 VAC  | 100 - 240 VAC  |
| Input Frequency                                      | 50 - 60 Hz   | 50 - 60 Hz   | 50 - 60 Hz   | 50 - 60 Hz   |
| Input Current  | 1.0 A Max  | 5 A Max  | 1.0 A Max  | 5 A Max  |
| Power Consumption                                    | 31 watts   | 63 watts   | 47 watts   | 73 watts   |
| <b>Temperature</b>                                   |  |  |  |  |
| IEC 6-2-1 Standard Operating Temperature             | 0° to 50° C (32° to 122° F)  | 0° to 50° C (32° to 122° F)  | 0° to 50° C (32° to 122° F)  | 0° to 50° C (32° to 122° F)  |
| IEC 6-2-14 Non-Operating Temperature                 | -40° to 70° C (-40° to 158° F)   | -40° to 70° C (-40° to 158° F)   | -40° to 70° C (-40° to 158° F)   | -40° to 70° C (-40° to 158° F)   |
| Heat Dissipation                                     | 105 BTUs/Hr  | 215 BTUs/Hr  | 161 BTUs/Hr  | 249 BTUs/Hr  |
| <b>Humidity</b>                                      |  |  |  |  |
| Operating Humidity                                   | 5% - 95% non- condensing   | 5% - 95% non- condensing   | 5% - 95% non- condensing   | 5% - 95% non- condensing   |
| <b>Vibration</b>                                     |  |  |  |  |
|  | IEC 68-2-6, IEC68-2-36   | IEC 68-2-6, IEC68-2-36   | IEC 68-2-6, IEC68-2-36   | IEC 68-2-6, IEC68-2-36   |
| <b>Shock</b>   |  |  |  |  |
|  | IEC 68-2-29  | IEC 68-2-29  | IEC 68-2-29  | IEC 68-2-29  |
| <b>Drop</b>  |  |  |  |  |
|  | IEC 68-2-32  | IEC 68-2-32  | IEC 68-2-32  | IEC 68-2-32  |

# Switch Model Specifications

|  | A4H124-24  | A4H124-24P   | A4H124-48  | A4H124-48P   |
|--|--|--|--|--|
| <b>Acoustics</b>                                     |  |  |  |  |
| Throughput Capacity wire-speed Mpps (switch / stack) | 41.5 dB when the fan runs  | 50.0 dB  | 47.0 dB  | 50.0 dB  |
| <b>Agency and Regulatory Standard Specifications</b> |  |  |  |  |
| Safety   | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  |
| EMC  | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 |
| Environmental  | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   |

|  | A4H254-8F8T   | A4H124-24FX   |
|--|---|---|
| <b>Performance</b>                                 |   |   |
| Throughput Capacity wire-speed Mpps (switch/stack) | 8.3 Mpps / 66.7 Mpps  | 9.5 Mpps / 76.2 Mpps  |
| Switching Capacity (switch/stack)                  | 11.2 Gbps (8.3 Mpps) / 89.6 Gbps (66.7 Mpps)  | 12.8 Gbps (9.5 Mpps) / 102.4 Gbps (76.2 Mpps)   |
| Stacking Capacity (switch/stack)                   | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br>No dedicated stacking ports on the A4; 10/100/1000 can be used for stacking or uplinks  | 4.0 Gbps (2.98 Mpps)/32.0 Gbps (23.8 Mpps)<br>No dedicated stacking ports on the A4; 10/100/1000 can be used for stacking or uplinks  |
| <b>PoE Specifications</b>                          |   |   |
| 802.3af Interoperable                              | N/A   | N/A   |
| 802.3at Interoperable                              | N/A   | N/A   |
| System Power                                       | N/A   | N/A   |
| <b>Physical Specifications</b>                     |   |   |
| Dimensions (H x W x D)                             | H: 4.4 cm (1.73")<br>W: 44 cm (17.32")<br>D: 36.5 cm (14.37")   | H: 4.4 cm (1.73")<br>W: 44 cm (17.32")<br>D: 36.5 cm (14.37")   |
| Net Weight   | 4.78 kg (10.50 lb)  | 4.85 kg (10.69 lb)  |
| MTBF   | 388,498 hours   | 388,135 hours   |
| Physical Ports                                     | <ul style="list-style-type: none"> <li>• (8) 10/100BASE-T RJ45 ports</li> <li>• (8) 100Base-FX MT-RJ ports</li> <li>• (2) Gigabit Ethernet SFP ports</li> <li>• (2) 10/100/1000 stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> | <ul style="list-style-type: none"> <li>• (24) 100Base-FX MTRJ fiber optic ports</li> <li>• (2) mini-GBIC ports</li> <li>• (2) 10/100/1000 stacking/uplink RJ45 ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS port</li> </ul> |
| <b>Power Requirements</b>                          |   |   |
| Normal Input Voltage                               | 100 - 240 VAC   | 100 - 240 VAC   |
| Input Frequency                                    | 50 - 60 Hz  | 50 - 60 Hz  |
| Input Current                                      | 1.0 A Max   | 1.0 A Max   |
| Power Consumption                                  | 47 watts  | 66 watts  |
| <b>Temperature</b>                                 |   |   |
| IEC 6-2-1 Standard Operating Temperature           | 0° to 50°C (32° to 122° F)  | 0° to 50°C (32° to 122° F)  |
| IEC 6-2-1 Non-Operating Temperature                | -40° to 70°C (-40° to 158° F)   | -40° to 70°C (-40° to 158° F)   |
| Heat Dissipation                                   | 161 BTUs/Hr   | 224 BTUs/Hr   |
| <b>Humidity</b>                                    |   |   |
| Operating Humidity                                 | 5% - 95% non- condensing  | 5% - 95% non- condensing  |

|  | A4H254-8F8T  | A4H124-24FX  |
|--|--|--|
| <b>Vibration</b>                                     |  |  |
|  | IEC 68-2-6, IEC68-2-36   | IEC 68-2-6, IEC68-2-36   |
| <b>Shock</b>   |  |  |
|  | IEC 68-2-29  | IEC 68-2-29  |
| <b>Drop</b>  |  |  |
|  | IEC 68-2-32  | IEC 68-2-32  |
| <b>Acoustics</b>                                     |  |  |
|  | 50.0 dB  | 51.5 dB  |
| <b>Agency and Regulatory Standard Specifications</b> |  |  |
| Safety   | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  | UL 60950-1, CSA 22.1 60950, EN 60950-1, and IEC 60950-1  |
| EMC  | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 | FCC Part 15 (Class A), ICES-003 (Class A), BSMI, VCCI V-3, AS/NZS CISPR 22 (Class A), EN 55022 (Class A), EN 55024, EN 61000-3-2, and EN 61000-3-3 |
| Environmental  | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   | 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive)   |

## Redundant Power Supply Equipment Specifications

### STK-RPS-150CH2 POWER SHELF

#### Power Supply Slots

2

#### Dimensions (H x W x D)\*

5.5 cm (2.2") x 44.0 cm (17.3") x 18.0 cm (7.0")

#### Weight

0.95 kg (2.09 lbs)

\*Note: dimensions include integrated rack mount ears

#### Operating Relative Humidity

5% to 95%

#### AC Input Frequency Range

50 - 60 Hz

#### AC Input Voltage Range

100 - 240 VAC

#### Maximum Output Power

156 W continuous

### STK-RPS-150CH8 POWER SHELF

#### Power Supply Slots

8

#### Dimensions (H x W x D)\*

22.26 cm (8.77") x 44.0 cm (17.3") x 26.4 cm (10.4")

#### Weight

5.27 kg (11.6 lbs)

### STK-RPS-500PS POWER SUPPLY

#### Dimensions (H x W x D)

4.45 cm (1.75") x 44.5 cm (17.5") x 16.5 cm (6.5")

#### Net Weight (Unit Only)

3.47 kg (7.63 lb)

#### Gross Weight (Packaged Unit)

4.95 kg (10.89 lb)

#### MTBF

589,644 hours at 25° C (77° F)

#### Operating Temperature

0° C to 50° C (32° F to 122° F)

#### Storage Temperature

-30° C to 73° C (-22° F to 164° F)

#### Operating Relative Humidity

5% to 95%

#### AC Input Frequency Range

50 - 60 Hz

#### AC Input Voltage Range

100 - 240 VAC

#### Maximum Output Power

500 W continuous

### STK-RPS-150PS POWER SUPPLY

#### Dimensions (H x W x D)

19.6 cm (7.7") x 5.2 cm (2.04") x 25.7 cm (10.1")

#### Net Weight (Unit Only)

1.75 kg (3.85 lbs)

#### Gross Weight (Packaged Unit)

3.20 kg (7.04 lbs)

#### MTBF

300,000 hours

#### Operating Temperature

0° C to 50° C (32° F to 122° F)

#### Storage Temperature

-30° C to 73° C (-22° F to 164° F)

## Ordering Information

| Part Number                     | Description  |
|---------------------------------|--|
| <b>A4 Switches</b>              |  |
| A4H124-24                       | 24 x 10/100, (2) SFP Ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS                    |
| A4H124-24P                      | 24 x 10/100 PoE (.af), (2) SFP Ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS          |
| A4H124-48                       | 48 x 10/100, (2) SFP Ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS                    |
| A4H124-48P                      | 48 x 10/100 PoE (.af), (2) SFP Ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS          |
| A4H124-24FX                     | 24 x 100Base-FX, (2) SFP Ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS                |
| A4H254-8F8T                     | 8 x 100Base-FX plus 8 x 10/100, (2) SFP ports, (2) 10/100/1000 stacking/uplink RJ45 ports, Ext RPS |
| <b>Cables</b>                   |  |
| SSCON-CAB                       | Spare DB9 Console Cable  |
| <b>Redundant Power Supplies</b> |  |
| STK-RPS-150CH2                  | 2-slot modular power supply shelf (power supply STK-RPS-150PS sold separately)                     |
| STK-RPS-150CH8                  | 8-slot modular power supply shelf (power supply STK-RPS-150PS sold separately)                     |
| STK-RPS-150PS                   | 150W Non-PoE redundant power supply  |
| STK-RPS-500PS                   | 500W redundant PoE power supply  |

### POWER CORDS

In support of its expanding Green initiatives as of July 1st 2014, Extreme Networks will no longer ship power cords with products. Power cords can be ordered separately but need to be specified at the time order. Please refer to [www.extremenetworks.com/product/powercords/](http://www.extremenetworks.com/product/powercords/) for details on power cord availability for this product.

## Transceivers

Extreme Networks transceivers provide connectivity options for Ethernet over twisted pair copper and fiber optic cables with transmission speeds from 100 Megabits per second to 10 Gigabits per second. All Extreme Networks transceivers meet the highest quality for extended life cycle and the best possible return on investment.

For detailed specifications, compatibility and ordering information please go to:

[www.extremenetworks.com/product/transceivers](http://www.extremenetworks.com/product/transceivers)

## Warranty

As a customer-centric company, Extreme Networks is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible. A-Series switches come with the Extreme Networks lifetime warranty against manufacturing defects.

For full warranty terms and conditions please go to:

[www.extremenetworks.com/support/policies](http://www.extremenetworks.com/support/policies)

## Service and Support

Extreme Networks provides comprehensive service offerings that range from Professional Services to design, deploy and optimize customer networks, customized technical training, to service and support tailored to individual customer needs. Please contact your Extreme Networks account executive for more information about Extreme Networks Service and Support.



<http://www.extremenetworks.com/contact> / Phone +1-408-579-2800

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