



# Summit and 48 24

The Summit48 and Summit24 provide 10/100 Mbps aggregation in service provider data centers, server farms, metropolitan area networks, multi-tenant buildings, and wiring closets. They integrated seamlessly into networks while delivering high port density, wire-speed performance and low cost of ownership.

**Summit48** With 48 switched 10/100 Mbps auto-negotiating Ethernet ports and two full-duplex GBIC-based 1000BASE-SX, LX or LX-70 Gigabit Ethernet ports, Summit48 has a 17.5 Gbps non-blocking switch fabric and a forwarding rate of 10.1 million packets per second. Summit48 comes with wire-speed Layer 2 and wire-speed basic Layer 3 switching using static routing or RIP V1/V2 routing protocols. For easy scalability, the Summit48 upgrades to full Layer 3 switching with a simple upgrade key. The full layer 3 switching includes support for protocols such as OSPF, DVMRP and PIM.

**Summit24** With 24 switched 10/100 Mbps auto-negotiating Ethernet ports and one full-duplex GBIC-based 1000BASE-SX, LX or LX-70 Gigabit Ethernet port, Summit24 has an 8.5 Gbps non-blocking switch fabric and a forwarding rate of 5.1 million packets per second. Summit24 comes with wire-speed Layer 2 and wire-speed basic Layer 3 switching using static routing or RIP V1/V2 routing protocols. For easy scalability, the Summit24 upgrades to full Layer 3 switching with a simple upgrade key. The full Layer 3 switching includes support for protocols such as OSPF, DVMRP and PIM.

Pre-installed on every Extreme Networks switch, the ExtremeWare™ software suite combines industry-standard protocols to ensure interoperability with legacy switches and routers, plus Policy-Based Quality of Service (QoS) for bandwidth management and traffic.

- **Gigabit Ethernet links to the network core and high-density 10/100 Mbps ports to the edge**
- **Non-blocking switch fabric bandwidth with wire-speed switch performance**
- **Start with basic Layer 3 switching and wire-speed Layer 2 switching**
- **Scale up to full Layer 3— using advanced IP Routing Protocols and IPX Routing— with a simple upgrade key**
- **Policy-Based QoS, including bandwidth management, prioritization and congestion control**
- **Fault-tolerant: multiple load-sharing trunks, multiple spanning trees and optional redundant power supply**
- **Extensive management through HTTP, SNMP, RMON and command line interface**

# Summit<sup>48</sup> and<sup>24</sup> Specifications

## General

True QoS via ExtremeWare and Policy-Based Quality of Service  
Full or half duplex operation  
Multiple spanning tree support  
Multiple load-sharing trunks  
Up to 128,000 Layer 2 addresses  
Up to 64,000 Layer 3 addresses  
4 MB buffering

## Summit48

48 10/100BASE-X ports  
Two GBIC-based active  
1000BASE-SX ports

## Summit24

24 10/100BASE-TX ports  
One GBIC-based active  
1000BASE-X port

## Protocols and Standards

IEEE 802.3z 1000BASE-X  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3x Flow control  
IEEE 802.3ad Link aggregation  
IEEE 802.1D-1998 (includes 802.1p)  
IEEE 802.1Q VLAN Tagging  
RFC 768 UDP  
RFC 783 TFTP  
RFC 791 IP  
RFC 792 ICMP  
RFC 826 ARP  
RFC 854 Telnet  
RFC 1058 RIP  
RFC 1122 Host Requirements  
RFC 1256 Router Discover Protocol  
RFC 1519 CIDR  
RFC 1542 BootP  
RFC 1723 RIP v2  
RFC 1812 IP Router Requirement  
RFC 2068 HTTP

RFC 2178 OSPF

RFC 2131 BootP/DHCP Relay

RFC 2236

DVMRP v3

PIM

## Performance

### Summit48

17.5 Gbps non-blocking bandwidth  
Route/filter/forward 10.1 million pps

### Summit24

8.5 Gbps non-blocking bandwidth  
Route/filter/forward 5.1 million pps

## Management and Security

RFC 1157 SNMP v1/v2c

RFC 1213 MIB II

RFC 1354 IP forwarding table MIB

RFC 1493 Bridge MIB

RFC 1573 Evolution of Interface

RFC 1643 Ethernet MIB

RFC 1724 RIP v2 MIB

RFC 1757 Four groups of RMON

RFC 2021 RMON Probe Configuration

RFC 2037 Entity MIB

RFC 2138 RADIUS

RFC 2239 802.3 MAU MIB

ExtremeWare Enterprise MIB

HTML and Telnet Management

## Physical and Environmental

Dimensions:

### Summit48 & Summit24

(H) 3.5 in x (W) 17.32 in x (D) 17.42 in

(H) 8.90 cm x (W) 44.0 cm x (D) 44.25 cm

Weight:

### Summit48

18 lbs (8.17 kg)

### Summit24

17 lbs (7.65 kg)

Operating Temperature: 0° C to 40° C

Storage Temperature: -10° C to 70° C

Humidity: 10% to 95% non-condensing

Power: 90-250 VAC, 47-63 Hz, 2.5 A max

Includes hardware for mounting in a standard 19-inch rack

Heat Dissipation:

341-2 BTU/hr (118 Watts)

MTBF = 50,000 hours

## Regulatory Compliance

FCC Part 15 Class A

ICES-0003 Class A

VCCI Class 1

EN55022 Class A

CISPR 22 Class A

EN55024

## Environmental

EN60068 to Extreme IEC68 schedule

## Reliability

Minimum 50000 hrs MTBF to Mil HDBK

217F Notice I, Parts Stress Method

## Acoustic

58 dB/pW Weighted Sound Power Level to  
ENC27779 and EN29295

## Summit24 and Summit48 Ordering Information

### Order

Number	Description
13010	24 10/100BASE-TX ports, 2 unpopulated GBIC based 1000BASE-X port (1 active and 1 redundant) with Basic Layer 3 switching software
13020	24 10/100BASE-TX ports, 2 unpopulated GBIC based 1000BASE-X port (1 active and 1 redundant) with Full Layer 3 switching software
15010	48 10/100BASE-TX ports, 4 unpopulated GBIC based 1000BASE-X port (2 active and 2 redundant) with Basic Layer 3 switching software
15020	48 10/100BASE-TX ports, 4 unpopulated GBIC based 1000BASE-X port (2 active and 2 redundant) with Full Layer 3 switching software
13033	Optional upgrade key from Basic to Full Layer 3 switching software for Summit48
15023	Optional upgrade key from Basic to Full Layer 3 switching software for Summit24
10901	Redundant Power Supply system for Summit24 or Summit48 (supports 2 switches)

For more product information from Extreme Networks, please call 1.888.257.3000. 3585 Monroe Street, Santa Clara, CA 95051-1450 Phone 408.579.2800  
Fax 408.579.3000 Email [info@extremenetworks.com](mailto:info@extremenetworks.com) Web [www.extremenetworks.com](http://www.extremenetworks.com)



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