



# Summit 7i

The high-density Summit7i™ stackable switch delivers non-blocking wire-speed IP/IPX routing and switching to server farms, aggregated switches and network backbones. Available with 28 100/1000BASE-T or 1000BASE-SX ports plus four GBIC-based 1000BASE-X ports, Summit7i is the industry's first stackable 32-port Gigabit Ethernet switch in a compact '4U' package. It also comes with optional redundant power supplies for increased fault tolerance.

**Switching Co-location and Switching** In server farms and data centers, the Summit7i maximizes server availability and performance by combining server load-balancing with wire-speed switching. Auto-negotiating 100/1000BASE-T ports extend the simplicity of Ethernet's scalable speed from Fast Ethernet to Gigabit Ethernet. The low 7-inch height of the Summit7i also makes it ideal in server farms and data centers where rack space is limited.

**Scalable Backbone Bandwidth** The high port-density of the Summit7i makes it easy and cost-effective to scale backbone bandwidth and aggregate multiple switches. As a "mid-tier" switching solution, Summit7i can aggregate multiple Summit24™ and Summit48™ switches, while providing high-speed gigabit links to BlackDiamond™ chassis switches in the core.

Utilizing link aggregation, Summit7i can trunk multiple Gigabit Ethernet connections into one high-bandwidth pipe. Capable of scaling backbone bandwidth well into the future, the Summit7i can aggregate up to eight Gigabit Ethernet links into one logical link.

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 prioritization in today's networks.

- **64 Gbps non-blocking switch fabric bandwidth**
- **Wire-speed IP/IPX routing at 48 million packets per second**
- **RIP v1 and v2, OSPF, BGP4, DVMRP and PIM**
- **32 Gigabit Ethernet ports: 28 auto-negotiating 100/1000BASE-T or 1000BASE-SX ports, plus four GBIC-based 1000BASE-X ports**
- **Policy-Based Quality of Service, including bandwidth management and prioritization**
- **Access policies for network control and security**
- **Server load balancing and web cache redirection**
- **Fault tolerant: multiple load-sharing trunks; multiple spanning trees; Extreme Standby Router Protocol; and redundant, load-sharing power supplies**
- **Extensive management through HTTP, SNMP, RMON, and command line interface**
- **Switch and route jumbo frames**

# Summit7i Product Specifications

## General

True QoS via ExtremeWare and Policy-Based Bandwidth control and application prioritization  
 Eight queues per port  
 Built-in PCMCIA interface  
 Auto-negotiating 100/1000BASE-T  
 Up to 128,000 Layer 2 addresses  
 Up to 128,000 Layer 3 addresses  
 4,096 VLANs

## 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 1771 BGP4  
 RFC 1812 IP Router Requirement  
 RFC 1966 BGP Route Reflection

RFC 1997 BGP Communities Attributes  
 RFC 2068 HTTP  
 RFC 2178 OSPF  
 RFC 2131 BootP/DHCP Relay  
 RFC 2236  
 DVMRP v3  
 RSVP  
 PIM

## Management and Security

RFC 1157 SNMP v1/v2  
 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

## Physical and Environmental

Dimensions:  
 (H) 7.0 in x (W) 17.25 in x (D) 19.0 in  
 (H) 17.8 cms x (W) 43.87 cms x  
 (D) 48.31 cms  
 Weight: Single Power System: 45 lbs  
 (20.25 Kg); Dual Power System 55 lbs  
 (24.75 Kg)  
 Operating Temperature: 0° C to 40° C  
 (32° F to 104° F)  
 Storage Temperature: -10° C to 70° C  
 (14° F to 158° F)

Humidity: 10% to 95% non-condensing  
 Power: 90-264 VAC, 47-63 Hz, 10 A max.  
 Heat Dissipation: 1,298 BTU/hr (380 watts)  
 MTBF = 50, 426 hrs.

## Regulatory

Safety: UL 1950 3rd Edition, Listed  
 TUV/GS and GOST to EN60825-1 and  
 EN60950: 1992/A3:1995+ZB/ZC  
 Deviations  
 cUL Listed to CSA 22.2#950-95  
 EMI/EMC: 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 1, Parts Stress  
 Method  
 Acoustic: 58 dB/pW Weighted Sound  
 Power Level to EN27779 and EN29295

## Packing List

Systems ships with ExtremeWare Basic  
 Layer3 software license, user documen-  
 tation and 19-inch rack mount hardware

## Ordering Information

Order Number	Description
11701	Summit7i with 28 fixed 100/1000BASE-T (RJ-45) ports and four unpopulated GBIC-based 1000BASE-X ports (SC), Basic Layer 3 software license, single power supply
11702	Summit7i with 28 fixed 100/1000BASE-T ports and four unpopulated GBIC-based 1000BASE-X ports (SC), Basic Layer 3 software license, dual power supply
11703	Summit7i with 28 fixed 1000BASE-SX (MT-RJ) ports and four unpopulated GBIC-based 1000BASE-X ports (SC), Basic Layer 3 software license, single power supply
11704	Summit7i with 28 fixed 1000BASE-SX (MT-RJ) ports and four unpopulated GBIC-based 1000BASE-X ports (SC), Basic Layer 3 software license, dual power supply
11705	Summit7i Spare AC Power Supply
11708	Summit7i Full Layer 3 upgrade voucher (for upgrade in the field from Basic Layer 3 to Full Layer 3)

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 Web www.extremenetworks.com



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