

# B-Series B5

Gigabit Ethernet Stackable Edge Switch

## BUSINESS ALIGNMENT

- Aligns network resource utilization with business goals and priorities
- Reliable network operation for mission-critical applications

## OPERATIONAL EFFICIENCY

- Management automation capabilities reduce network operational expenses
- Automatic discovery and deployment of VoIP services

## SECURITY

- Ability to audit network for adherence to compliance regulations, such as PCI or HIPAA
- Network resources securely allocated according to user roles
- Network security maintained concurrently with user mobility

## 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



- Future-proofed with 802.3at high-power PoE support
- Automatic discovery and deployment of VoIP services
- High-availability stacking assures reliable network operations
- Automated management features reduce operational costs
- Investment protection via comprehensive lifetime warranty
- 1.47 Tbps capacity and 809.5 Mpps

## Product Overview

The Extreme Networks B5 is a scalable, high-performance Gigabit Ethernet switch that provides support for the bandwidth-intensive and latency-sensitive requirements of today's demanding business applications. The B5 is an excellent choice for environments that require complete multi-layer switching capabilities and support for high density 10/100/1000 Ethernet ports, cost effective 10GE uplinks, dual IPv4/IPv6 management, basic routing and policy-based automation capabilities for advanced edge deployments.

The B5 incorporates the new 802.3at high-power PoE on all ports, translating into increased power provisioning for power-hungry devices such as Pan/Tilt/Zoom (PTZ) IP surveillance cameras, IP videophones, third party 802.11n access points and virtual desktops. Built-in high-power PoE support is a cost effective alternative for customers in place of purchasing separate PoE midspans, which can take away valuable rack space, add cost and contribute more cabling to the wiring closet.

The B5 provides high port density in a 1U footprint and is environmentally friendly by design. The B5's overall energy efficiency is further enhanced by a low current draw and an extreme tolerance for high environmental temperatures. A highly-scalable architecture and a comprehensive lifetime warranty ensure that a B5 network investment will sustain a secure, feature-rich and cost-effective network well into the future.

The B5's highly customizable Layer 2/3/4 packet classification capabilities work together with the 8 hardware-based priority queues associated with each Ethernet port to support a suite of differentiated services with as many as 8 distinct priority levels to provide guaranteed Quality of Service (QoS) for critical voice and video network traffic. In conjunction with its non-blocking L2 switching and L3 routing architecture, the B5's intelligent queuing mechanisms ensure that mission-critical applications receive prioritized access to network resources.

## Reliability and Availability

The B5 design incorporates redundancy and failure protection mechanisms complete with automatic failover and recovery capabilities to provide a reliable network. An integral power supply is the primary source of power for the B5 and complete power redundancy is provided by an optional external power supply. A virtual switch can be created by interconnecting as many as eight B5s in a single stack, which can be managed via a single IP address with redundant management connections. The B5's closed-loop stacking capability utilizes bi-directional switch interconnects to maintain connectivity within the virtual switch despite any physical failures, which includes switches, cables and connections. Flexible Link Aggregation Groups (6 groups of 8, 12 groups of 4 or 24 groups of 2) are supported which allow multiple Ethernet ports (8, 4 or 2) to be grouped together to create a LAG. A LAG's Ethernet ports can be co-located on a single B5 or they can be distributed across multiple B5s within a stack to prevent a switch-level failure from disrupting data communications. The B5 also includes Host CPU Protection support to help prevent Denial of Service (DoS) and BPDU attacks.

## Advanced Quality of Service

Robust Quality of Service (QoS) features enable strong support for integrated multimedia networks, as well as all types of data-intensive applications. The B5 is a standards-based solution optimized for multimedia applications, including VoIP, videoconferencing and real-time collaboration. The B5 uses multiple standards-based discovery methods with Extreme Networks policy capabilities to automatically identify and provision VoIP services for IP phones from all major vendors. B5 switches provide dynamic mobility for VoIP clients to reduce operating costs; when an IP phone moves and plugs in elsewhere in the enterprise network, its VoIP service provisioning, security and traffic priority settings move with it, with no manual administration required.

## Security

The B5 enables strong network security 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). Multiple users/devices per port can be authenticated via IEEE 802.1X, MAC address, or web authentication, and then assigned a pre-defined operational role. The B5 now supports increased password security via increased complexity, history tracking and aging. Passwords can now be encrypted using a FIPS 1402 approved algorithm.

Administrators can easily transition from RFC 3580 and complex access control list (ACL) deployments to the Extreme Networks role-based policy framework in a seamless fashion, without the need to make changes to their RADIUS infrastructure (e.g., adding filter-ID). In addition, the B5 also supports ACLs for supplementary network security. Network operations can be easily tailored to meet business-oriented requirements by providing each role with individualized access to network services and applications (e.g., a guest should have different network access privileges than an employee). Utilizing Extreme Networks role-based policy, administrators are able to manipulate DSCP and 802.1p rewrite for classification and prioritization of network traffic.

The B5 allows administrators even more network visibility, with the ability to audit their network for adherence to compliance regulations, such as PCI or HIPAA. The B5 is able to segment roles down to group levels, such as supporting a guest access role, helping to protect corporate applications and information.

## Investment Protection

The B5 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. All B-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 B5, with support for 32,000 MAC addresses, 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 184 Gbps, the B5 provides up to 48 10/100/1000 Ethernet ports as well as two 10 GE ports. Leveraging the B5's stacking capability, as many as 8 B5s (both 24-port and 48-port combinations) can be interconnected in a single stack to create a virtual switch that provides 1.47 Tbps of capacity and up to 384 10/100/1000 Ethernet ports as well as 16 10GE uplink ports.

## Features / Standards and Protocols

### MAC Address Table Size

32,000  
VLANs  
4,094 VLAN IDs  
1,024 VLAN Entries per Stack

### Switching Services

IEEE 802.1AB – LLDP  
ANSI/TIA-1057 – LLDP-MED  
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 802.3ae – 10 Gigabit Ethernet (fiber)  
IEEE 802.3af – PoE  
IEEE 802.3at – High Power PoE (up to 30W per port)  
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)  
Host CPU Protection – Broadcast/ Multicast/ Unknown Unicast  
Suppression  
Spanning Tree Backup Root  
STP Pass-Thru

### VLAN Support

Generic Attribute Registration Protocol (GARP)  
Generic VLAN Registration Protocol (GVRP)  
IEEE 802.1p – Traffic classification  
IEEE 802.1q – VLAN Tagging  
Protocol-based VLANs with Extreme Networks Policy  
IEEE 802.3ac – VLAN Tagging Extensions  
Port-based VLAN (private port/private VLAN)  
Tagged-based VLAN  
VLAN Marking of Mirror Traffic  
Standalone VLAN Association application for subnet, protocol and  
MAC based VLAN classification

### Quality of Service

8 Priority Queues per Port  
802.3x Flow Control  
Class of Service (CoS)  
Ingress Rate Limiting  
IP ToS/DSCP Marking/Remarking  
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  
RFC 2474 Definition of Differentiated Services Field

### Security

ARP Spoof Protection  
DHCP Spoof Protection  
Dynamic and Static MAC Locking  
EAP Pass Thru  
Hybrid Mode  
IEEE 802.1X Port Authentication  
MAC-based Port Authentication  
RADIUS Accounting for network access  
RADIUS Client  
IPsec for RADIUS transactions  
RFC 3580 – IEEE 802.1X RADIUS Usage Guidelines  
Multi-user Authentication  
Pre-login banner  
Password encrypted using a FIPS 1402 approved algorithm  
Secure Networks Policy  
Secured Shell (SSHv2)  
Secured Socket Layer (SSL)  
User and IP Phone Authentication  
Web-based Port Authentication  
Auto Console Disconnect  
Security Log  
Secure Directory

### IPv4 Routing

Standard Access Control List (ACLs)  
Extended ACLs  
VLAN-based ACLs  
Service ACLs  
IPv6 ACLs - not simultaneously supported with policy  
MAC-based ACLs - not simultaneously supported with policy  
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

Extreme Networks Entity MIB  
Extreme Networks Policy MIB  
Extreme Networks VLAN Authorization MIB  
Extreme Networks Spanning Tree Diagnostic MIB  
ANSI/TIA-1057 – LLDP-MED MIB  
IEEE 802.1AB – LLDP MIB  
IEEE 802.1X MIB – Port Access  
IEEE 802.3ad MIB – LAG MIB  
RFC 826 – ARP and ARP Redirect  
RFC 951, RFC 1542 – DHCP/BOOTP Relay  
RFC 1213 – MIB/MIB II  
RFC 1493 – BRIDGE-MIB  
RFC 1643 – Ethernet-like MIB  
RFC 2096 – IP Forwarding Table MIB  
RFC 2131, RFC 3046 – DHCP Client/Relay  
RFC 2571 – SNMP Framework MIB  
RFC 2465 – IPv6 MIB  
RFC 2466 – ICMPv6 MIB

## Features / Standards and Protocols (cont.)

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 – IfMIB  
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 3584 – SNMP Community MIB  
RFC 3621 – Power over Ethernet MIB

### Management

Alias Port Naming Command Line Interface (CLI)  
Configuration Upload/Download  
Dual IPv4/IPv6 Management Support  
Editable Text-based Configuration File  
TFTP Client  
Command Logging  
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 1981 – Path MTU for IPv6  
RFC 2030 – Simple Network Time Protocol (SNTP)  
RFC 2460 – IPv6 Protocol Specification  
RFC 2461 – IPv6 Neighbor Discovery  
RFC 2462 – Stateless Autoconfiguration  
RFC 2463 – ICMPv6  
RFC 2465 – IPv6 MIB  
RFC 2933 – IGMP MIB  
RFC 3176 – sFlow  
RFC 3413 – SNMP Applications MIB  
RFC 3414 – SNMP User-based Security Module (USM) MIB  
RFC 3415 – View-based Access Control Model for SNMP  
RFC 3587 – IPv6 Global Unicast Address Format  
RFC 3826 – Advanced Encryption Standard (AES) for SNMP  
RMON (Stats, History, Alarms, Events, Filters, Packet Capture)  
RFC 4007 – IPv6 Scoped Address Architecture  
RFC 4291 – IPv6 Addressing Architecture  
Secure Copy (SCP)  
Secure FTP (SFTP)  
Simple Network Management Protocol (SNMP) v1/v2c/v3  
SSHv2  
RFC 3164 – The BSD Syslog Protocol  
TACACS+ for Management Authentication, Authorization and Auditing  
Web-based Management  
Webview via SSL Interface

# Switch Model Specifications

	B5G124-24	B5G124-24P2	B5G124-48	B5G124-48P2
<b>Performance</b>				
Throughput Capacity wire-speed Mpps (switch / stack)	35.7 Mpps / 285.7 Mpps	35.7 Mpps / 285.7 Mpps	71.4 Mpps / 571.4 Mpps	71.4 Mpps / 571.4 Mpps
Switching Capacity (switch / stack)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	96 Gbps (71.4 Mpps)/ 768 Gbps (571.4 Mpps)	96 Gbps (71.4 Mpps)/ 768 Gbps (571.4 Mpps)
Stacking Capacity (switch / stack)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)
Aggregate Throughput Capacity (switch / stack)	96 Gbps (71.4 Mpps)/ 768 Gbps (571.4 Mpps)	96 Gbps (71.4 Mpps)/ 768 Gbps (571.4 Mpps)	144 Gbps (107.1 Mpps)/ 1,152 Gbps (857.1 Mpps)	144 Gbps (107.1 Mpps)/ 1,152 Gbps (857.1 Mpps)
<b>PoE Specifications</b>				
802.3af Interoperable	N/A	Yes	N/A	Yes
802.3at Interoperable	N/A	Yes	N/A	Yes
System Power	N/A	375 watts per switch with up to 30 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection	N/A	375 watts per switch with up to 30 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection
<b>Physical Specifications</b>				
Dimensions (H x W x D)	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")
Net Weight	4.92 kg (10.85 lb)	6.10 kg (13.45 lb)	5.31 kg (11.70 lb)	6.49 kg (14.30 lb)
MTBF	394,679 hours	345,093 hours	308,359 hours	260,806 hours
Physical Ports	<ul style="list-style-type: none"> <li>• (24) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (4) Combo SFP ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (24) 10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (4) Combo SFP ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (48) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (4) Combo SFP ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (48) 10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (4) Combo SFP ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</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	2 A Max	7.5 A Max	2 A Max	7.5 A Max
Power Consumption	48 watts	93 watts	76 watts	125 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	164 BTUs/Hr	318 BTUs/Hr	258 BTUs/Hr	427 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

	B5G124-24	B5G124-24P2	B5G124-48	B5G124-48P2
<b>Altitude</b>				
Operating	10,000 ft (3,048 m)	10,000 ft (3,048 m)	10,000 ft (3,048 m)	10,000 ft (3,048 m)
Non-operating	15,000 ft (4,572 m)	15,000 ft (4,572 m)	15,000 ft (4,572 m)	15,000 ft (4,572 m)
<b>Acoustics</b>				
Front of switch (normal operation)	44.5 dB	45 dB	45.5 dB	44.5 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	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), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)
	B5K125-24	B5K125-24P2	B5K125-48	B5K125-48P2
<b>Performance</b>				
Throughput Capacity wire-speed Mpps (switch / stack)	65.5 Mpps / 523.8 Mpps	65.5 Mpps / 523.8 Mpps	101.2 Mpps / 809.5 Mpps	101.2 Mpps / 809.5 Mpps
Switching Capacity (switch / stack)	88 Gbps (65.5 Mpps)/ 704 Gbps (523.8 Mpps)	88 Gbps (65.5 Mpps)/ 704 Gbps (523.8 Mpps)	136 Gbps (101.2 Mpps)/ 1,088 Gbps (809.5 Mpps)	136 Gbps (101.2 Mpps)/ 1,088 Gbps (809.5 Mpps)
Stacking Capacity (switch / stack)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)	48 Gbps (35.7 Mpps)/ 384 Gbps (285.7 Mpps)
Aggregate Throughput Capacity (switch / stack)	136 Gbps (101.2 Mpps)/ 1,088 Gbps (809.5 Mpps)	136 Gbps (101.2 Mpps)/ 1,088 Gbps (809.5 Mpps)	184 Gbps (136.9 Mpps)/ 1,472 Gbps (1,095.2 Mpps)	184 Gbps (136.9 Mpps)/ 1,472 Gbps (1,095.2 Mpps)
<b>PoE Specifications</b>				
802.3af Interoperable	N/A	Yes	N/A	Yes
802.3at Interoperable	N/A	Yes	N/A	Yes
System Power	N/A	375 watts per switch with up to 30 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection	N/A	375 watts per switch with up to 30 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection
<b>Physical Specifications</b>				
Dimensions (H x W x D)	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")	H: 4.4 cm (1.73") W: 44.1 cm (17.36") D: 36.85 cm (14.51")
Net Weight	4.92 kg (10.85 lb)	6.10 kg (13.45 lb)	5.31 kg (11.70 lb)	6.49 kg (14.30 lb)
MTBF	374,029 hours	328,905 hours	297,808 hours	252,940 hours
Physical Ports	<ul style="list-style-type: none"> <li>• (24) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) Combo SFP ports</li> <li>• (2) 10GE ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (24)10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) Combo SFP ports</li> <li>• (2) 10GE ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (48) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) Combo SFP ports</li> <li>• (2) 10GE ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>	<ul style="list-style-type: none"> <li>• (48)10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports</li> <li>• (2) Combo SFP ports</li> <li>• (2) 10GE ports</li> <li>• (2) dedicated stacking ports</li> <li>• (1) DB9 console port</li> <li>• (1) RPS connector</li> </ul>

## Switch Model Specifications (cont.)

	B5K125-24	B5K125-24P2	B5K125-48	B5K125-48P2
<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	2 A Max	7.5 A Max	2 A Max	7.5 A Max
Power Consumption	59 watts	98 watts	94 watts	125 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	200 BTUs/Hr	335 BTUs/Hr	321 BTUs/Hr	427 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
<b>Acoustics</b>				
Front of switch (normal operation)	45.5 dB	45 dB	46 dB	45.5 dB
<b>Altitude</b>				
Operating	10,000 ft (3,048 m)	10,000 ft (3,048 m)	10,000 ft (3,048 m)	10,000 ft (3,048 m)
Non-operating	15,000 ft (4,572 m)	15,000 ft (4,572 m)	15,000 ft (4,572 m)	15,000 ft (4,572 m)
<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), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)

## 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*

### 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-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)

#### 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-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

Part Number	Description
<b>B5 Switches</b>	
B5G124-24	(24) 10/100/1000 RJ45 ports, (4) combo SFP ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports
B5G124-24P2	(24) 10/100/1000 PoE (.at + .af) RJ45 ports, (4) combo SFP ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports
B5G124-48	(48) 10/100/1000 RJ45 ports, (4) combo SFP ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports
B5G124-48P2	(48) 10/100/1000 PoE (.at + .af) RJ45 ports, (4) combo SFP ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports
B5K125-24	(24) 10/100/1000 RJ45 ports, (2) combo SFP ports, (2) 10GE ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports + (2) 10GE ports
B5K125-24P2	(24) 10/100/1000 PoE (.at + .af) RJ45 ports, (2) combo SFP ports, (2) 10GE ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports + (2) 10GE ports
B5K125-48	(48) 10/100/1000 RJ45 ports, (2) combo SFP ports, (2) 10GE ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports + (2) 10GE ports
B5K125-48P2	(48) 10/100/1000 PoE (.at + .af) RJ45 ports, (2) combo SFP ports, (2) 10GE ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports + (2) 10GE ports
<b>Cables</b>	
STK-CAB-SHORT	Stacking cable for connecting adjacent B5/C5 switches (30cm)
STK-CAB-LONG	Stacking cable for connecting top switch to bottom switch in a B5 or C5 stack (1m)
STK-CAB-2M	Stacking cable for B5/C5 models (2m)
STK-CAB-5M	Stacking cable for B5/C5 models (5m)
S5CON-CAB	Spare DB9 Console Cable



## Ordering Information

Part Number	Description
Redundant Power Supplies	
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 802.3at PoE redundant power supply

## 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

<http://www.ExtremeNetworks.com/products/transceivers-ds.pdf>.

## 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.

B-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/warranty.aspx](http://www.ExtremeNetworks.com/support/warranty.aspx).

## 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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