G-Series
Policy-based 10 G Modular L2/L3/L4 Edge Switch

BENEFITS

BUSINESS ALIGNMENT

• Versatile edge switch combines the size and cost-effectiveness of a stackable and the modularity of a chassis to support business-critical applications
• High-availability design with redundant power assures reliable network operations
• Granular QoS capabilities support converged multimedia networks

OPERATIONAL EFFICIENCY

• Modular architecture supports network growth and flexible connectivity, including 10GE
• Centralized management and role-based policies reduce network operational expenses
• Complete multi-layer switching with IPv4 and optional IPv6 routing for evolving network architectures

SECURITY

• Integral security without performance degradation
• Network security maintained concurrently with user mobility
• Network resources securely allocated according to user operational roles

SUPPORT AND SERVICE

• Industry-leading customer satisfaction and first call resolution rates
• Personalized services, including site surveys, network design, installation, and training
• Lifetime warranty

Product Overview

The Extreme Networks G3 is a Gigabit Ethernet switch with 3 expansion slots that support 24-port Gigabit Ethernet as well as 2-port and 4-port 10GE I/O modules. With its wire-rate switching and routing capabilities, including IPv6 routing, the G3 is well-suited for dynamic switching/routing environments that require high-density Gigabit Ethernet ports and high-capacity 10GE uplinks. Along with a switch capacity of 384 Gbps, the G3 provides 24 Ethernet ports (either fixed 10/100/1000Base-T or 1 Gbps SFPs). Two of the ports on the 10/100/1000 switches are combo ports, which can be accessed via either the 10/100/1000Base-T or 1 Gbps Small Form-Factor Pluggable (SFP) connectors.

In order to provide a reliable, high-availability network, the G3 offers field-replaceable redundant power supplies and supports Link Aggregation Groups (LAGs), OSPF Equal Cost Multipath and Virtual Router Redundancy Protocol (VRRP). Both the standard and Power over Ethernet (PoE) G3 models support redundant, integral power supplies, which can be configured to operate in either a load-sharing (redundant) or additive power configuration.

In conjunction with its non-blocking architecture, the G3’s robust Quality of Service (QoS) features enable strong support for converged multimedia networks, including Voice over IP (VoIP) and video, as well as all types of data-intensive applications. The G3’s highly customizable Layer 2/3/4 packet classification capabilities together with its intelligent queuing mechanisms ensure that mission-critical applications receive prioritized access to network resources.
Making use of Extreme Networks’ policy capabilities, a network administrator can define distinct roles or profiles that represent specific operational groups within an organization. Each defined role is granted individualized access to specific network services and applications (e.g., manager, employee, guest) and these access privileges remain associated with users as they move across both wired and wireless network access points. Users are authenticated via IEEE 802.1X, MAC address, or web authentication, and then assigned a predefined operational role ensuring that each user has access to appropriate information, thus aligning network resource utilization with business goals and priorities.

In order to sustain a secure, feature-rich and cost-effective network well into the future, the G3 includes a lifetime warranty.

**Features**

**SECURITY**
- Business-oriented policy-based security by user, protocol, port, or VLAN
- Technology-oriented ACL-based security by port and per VLAN
- Better password security via increased complexity, history tracking and aging. Passwords can now be encrypted using a FIPS 1402 approved algorithm.
- Multiple user authentication via IEEE 802.1X, Web portal, and/or MAC address simultaneously for up to 8 users/devices per port
- Multiple user VLAN assignment via RFC 3580 for up to 8 users/devices per port
- Acceptable use policy enforcement when deployed with Extreme Networks Network Management Suite (NMS)
- Rapid detection, isolation, and remediation of threats when deployed with the Extreme Networks NMS and Intrusion Prevention System (IPS)
- Proactive protection services:
  - MAC address lockdown / lockout
  - Worm & virus quarantine
  - Source port pairing
  - ARP broadcast protection
  - BPDU port protection
  - DHCP service protection

**PERFORMANCE**
- Crossbar capacity: the G3 provides a crossbar capacity of up to 285.7 Mpps and 384 Gbps bandwidth
- Switch capacity: the G3 performs at wire speed per port and provides switching capacity up to 214 Mpps throughput with current IOMs
- Address table size: up to 32,000 addresses are supported
- Hardware queues: 8 hardware queues per port are supported

**MANAGEMENT**
- Secure management: authenticated and encrypted SNMPv3 support in addition to SSHv2 and SSL
- Policy support: the G3 supports the creation of 31 profiles and 1,536 unique policy rules per device; up to 8 roles or profiles are supported per port
- Port mirroring: mirrors ingress traffic from switch port(s) to a local or remote device for further traffic analysis or compliance purposes
- RMON: provides advanced monitoring and reporting capabilities for statistics, history, alarms, events, filter and packet capture. Note: packet capture is sampling only; packet capture/filter sampling is disabled by default and cannot be enabled on the same interface concurrently with port mirroring
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol for easy mapping by network management applications
- Alias/node table: dynamically updated local directory of attached users and devices used to locate and resolve IP addresses to MAC addresses throughout the network

**CONVERGENCE**
- LLDP-MED (Media Endpoint Discovery): a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- IP multicast routing: optional advanced routing license supports DVMRP and PIM sparse mode
- IP multicast snooping (data-driven IGMP): automatically prevents flooding of IP multicast traffic

**CONNECTIVITY**
- IEEE 802.3af Power over Ethernet: provides up to 15.4 W per port to IEEE 802.3af compliant PoE powered devices such as IP phones, wireless access points, and security cameras
- PoE power management: prioritizes which ports receive power and detects powered and non-powered end devices to enable attachment of PoE and standard Ethernet devices on a single switch. Class-based power management assigns the maximum amount of power required for a PoE class (0-4) to an attached device. Manual Mode distributes power to PoE-powered I/O modules manually, allowing for extra power to be distributed to designated ports.
- Jumbo frames: enables high-performance remote backup and disaster-recovery services
- IPv6 capable: IPv4/IPv6 dual host management support with IPv6 routing via an optional IPv6 routing license
HIGH AVAILABILITY

- IEEE 802.1s Multiple Spanning Tree Protocol: provides high link availability in multiple VLAN environments by allowing multiple spanning trees; encompasses IEEE 802.1D Spanning Tree Protocol and IEEE 802.1w Rapid Spanning Tree Protocol.
- IEEE 802.3ad Link Aggregation Control Protocol (LACP): Flexible Link Aggregation Groups (6 groups of 8, 12 groups of 4 or 24 groups of 2) which allow multiple Ethernet ports (8, 4 or 2) to be grouped together to create a LAG.
- Hot-swappable power supplies, I/O modules, and SFP/XFP optics.
- Redundant power supplies and cooling.
- Sparing simplicity: common accessories (interface modules, power supplies).

LAYER 2 SWITCHING

- IEEE 802.1q VLAN support and tagging: supports up to 1,024 VLANs simultaneously.
- GARP VLAN Registration Protocol: allows automatic learning and dynamic assignment of VLANs.

LAYER 3 SERVICES

- Layer 3 IP routing: static IP routing provides basic routing. RIP provides RIPv1 and RIPv2 routing at media speed for up to 2,500 IPv4 routes. Optional Advanced Routing License includes PIM, VRRP, and OSPF2 which supports ECMP to provide link redundancy/scalable bandwidth and NSSA. IPv6 routing is supported via the optional IPv6 Routing License.
- UDP helper function: UDP broadcasts can be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevent server spoofing for UDP services such as DHCP.
- Loopback interface address: defines an address in RIP and OSPF that can always be reachable, improving diagnostic capability.

QUALITY OF SERVICE (QOS)

- Traffic classification at layer 2,3,4: enables packet classification and tagging at the network edge based on any of the following attributes: MAC address, physical port, IP address, IP protocol, IP ToS/DSCP, TCP/UDP port, and IP subnet.
- Traffic prioritization: allows real-time traffic classification into 8 priority levels mapped to eight hardware queues; weighted round robin (WRR) or strict priority (SP) queuing are supported which keeps low priority traffic from being completely starved of bandwidth.

INVESTMENT PROTECTION

- Seamless transition from RFC 3580 and complex ACL deployments to the Extreme Networks role-based policy framework, without the need to make changes to the RADIUS infrastructure (e.g., adding filter-ID).
- Includes lifetime warranty that continues for five years after the date of product discontinuation.
Standards and Protocols

**Switching Services Protocols**

- IEEE 802.1D – MAC Bridges
- IEEE 802.1s – Multiple Spanning Trees
- IEEE 802.1t – 802.1D Maintenance
- IEEE 802.1w – Rapid Spanning Tree
- IEEE 802.3ad – Selectable Link Aggregation
- IEEE 802.3ae – 10 Gigabit Ethernet (fiber)
- IEEE 802.3af – PoE
- IEEE 802.3i – 10Base-T
- IEEE 802.3u – 100Base-T, 100Base-FX
- IEEE 802.3z – GE over Fiber
- IEEE 802.3ad – LAG MIB
- IEEE 802.1X – Port Access
- IEEE 802.1Q – VLAN Tagging
- IEEE 802.1P – Traffic Management/Mapping
- IEEE 802.1D – MAC Bridges
- IEEE 802.1W – Rapid Spanning Tree
- IEEE 802.1X – Remote Authentication
- IEEE 802.1Q – VLAN Tagging
- IEEE 802.1P – Traffic Management/Mapping
- IEEE 802.1D – MAC Bridges
- IEEE 802.1W – Rapid Spanning Tree
- IEEE 802.1X – Remote Authentication

**IP Security**

- IPSec for RADIUS transactions
- RFC 3580 – Dynamic VLAN Assignment
- RFC 3580 – Multi-user Authentication
- Password Protection (encrypted using a FIPS 1402 approved algorithm)
- Secure Shell (SSHv2)
- Secure Socket Layer (SSL)
- User and IP Phone Authentication

- IPv4 Routing & Simulcast
- ARP Dynamic Table Size: 2024
- ARP Static Table Size: 512
- ARP & ARP Redirect
- DHCP/BOOTP Relay
- DVMRP (optional license)
- IP Helper Address
- RFC 826 – Ethernet ARP
- RFC 1058 – RIP v1
- RFC 1256 – ICMP Router Discovery Messages
- RFC 1583, RFC 2328 – OSPFv2 (optional license)
- RFC 1724 – RIPv2 MIB Extension
- RFC 1850 – OSPF v2 MIB (optional license)
- RFC 2236 – ICMPv2
- RFC 2338 – IP Redundancy VRRP (optional license)
- RFC 2362 – PIM-SM (optional license)
- RFC 2453 – IPv6
- RFC 2787 – VRRP MIB (optional license)
- RFC 2863 – The Interfaces Group MIB
- RFC 2933 – IGMP MIB
- RFC 2934 – PIM MIB for IPv4 (optional license)
- RFC 3046 – DHCP/BootP Relay
- RFC 3768 – VRPP – Virtual Router (optional license)
- Redundancy Protocol
- Service ACLs
- MAC-based ACLs – not simultaneously supported with policy
- OSPF Passive Interface
- VRRP master-icmp-reply

**IPv6 Routing**

- RFC 1981 – Path MTU for IPv6
- RFC 2373 – IPv6 Addressing
- RFC 2461 – Neighbor Discovery
- RFC 2462 – Stateless Autoconfiguration
- RFC 2463 – ICMPv6
- RFC 2464 – IPv6 over Ethernet
- RFC 2473 – Generic Packet Tunneling in IPv6
- RFC 2711 – IPv6 Router Alert
- RFC 2740 – OSPFv3
- RFC 2893 – Transition Mechanisms for IPv6 Hosts and Routers (6 over 4 configured)
- RFC 3315 – DHCPv6 (stateless + relay)
- RFC 3484 – Default Address Selection for IPv6
- RFC 3493 – Basic Socket Interface for IPv6
- RFC 3513 – Addressing Architecture for IPv6
- RFC 3542 – Advanced Socket API for IPv6
- RFC 3587 – IPv6 Global Unicast Address Format
- RFC 3736 – Stateless DHCPv6
dual IPv4/IPv6 TCP/IP Stack
IPv6 ACLs – not simultaneously supported with policy

**RFC & MIB Support**

- 802.1X – Port Access
- IEEE 802.1Q – VLAN Tagging
- IEEE 802.1P – Traffic Management/Mapping
- IEEE 802.1D – MAC Bridges
- IEEE 802.1W – Rapid Spanning Tree
- IEEE 802.1X – Remote Authentication
- IEEE 802.1Q – VLAN Tagging
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- IEEE 802.1D – MAC Bridges
- IEEE 802.1W – Rapid Spanning Tree
- IEEE 802.1X – Remote Authentication

**Management**

- Alias Port Naming
- Command Logging
- Command Line Interface
- Configuration Upload/Download
- Editable Configuration File
- FTP/TFTP Client
- NMS configuration File Support
- NMS Automated Security Manager
- NMS Console
- NMS Inventory Manager
- NMS Policy Manager
- Node/Alias Table
- RFC 854 – Telnet
- RFC 1177 – SNMP
- RFC 1901 – Community-based SNMPv2
- RFC 2271 – SNMP Framework MIB
- RFC 3413 – SNMPv3 Applications
- RFC 3414 – User-based Security Model for SNMPv3
- RFC 3580 – IEEE 802.1X Remote Authentication
- Dial-in User Service (RADIUS)
- Usage Guidelines
- RFC 3584 – SNMPv3
- RFC 3621 – Power over Ethernet MIB

**Standards and Protocols**

- IPv4 Routing & Simulcast
- ARP Dynamic Table Size: 2024
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dual IPv4/IPv6 TCP/IP Stack
IPv6 ACLs – not simultaneously supported with policy

**RFC & MIB Support**

- Enterasys Networks Entity MIB
- Enterasys Networks Policy MIB
- Enterasys Networks VLAN Authorization MIB
- Enterasys Networks Spanning Tree Diagnostic MIB
- IEEE 802.1X MIB – Port Access
- IEEE 802.3ad MIB – LAG MIB

**LLDP/LLDP-MED**

- 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 2131, RFC 3046 – DHCP Client/Relay
- RFC 2233 – IF-MIB
- RFC 2271 – SNMP Framework MIB
- RFC 2465 – IPv6 MIB
- RFC 2466 – ICMPv6 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 2787 – VRRP-MIB
- RFC 2819 – RMON-MIB
- RFC 2863 – IF-MIB
- RFC 2933 – IGMP MIB
- RFC 3413 – SNMP Applications MIB
- RFC 3289 – Diffserv-MIB
- RFC 3414 – SNMP User-based Security Module (USM) MIB
- RFC 3418 – View-based Access Control Model for SNMP
- RFC 3580 – IEEE 802.1X Remote Authentication
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- RFC 2271 – SNMP Framework MIB
- RFC 3413 – SNMPv3 Applications
- RFC 3414 – User-based Security Model for SNMPv3
- RFC 3415 – View-based Access Control Model for SNMP
- RMON (Stats, History, Alarms, Events, Filter, Packet Capture)
sFlow
- Secure FTP / Secure Copy
- Simple Network Time Protocol (SNTP)
- SSH
- Syslog
- TACACS+ for Management Authentication, Authorization and Auditing
- Text-based Configuration Upload/Download
- Web-based Management
- Webview via SSL Interface
## Specifications

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>24-port 10/100/1000 switch with 3 modular expansion slots (power supply not included)</td>
<td>24-port 10/100/1000 PoE switch with 3 modular expansion slots (power supply not included)</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>24 fixed RJ-45 10/100/1000 ports with 2 SFP combo ports expandable to 96 (Type 10Base-T, Type 100Base-TX, Type 1000Base-T)</td>
<td>24 fixed RJ-45 10/100/1000 ports with PoE and 2 SFP combo ports expandable to 96 (Type 10Base-T, Type 100Base-TX, Type 1000Base-T)</td>
</tr>
<tr>
<td><strong>Empty Slots</strong></td>
<td>3 empty slots for Input/Output Modules (IOMs)</td>
<td>3 empty slots for Input/Output Modules (IOMs)</td>
</tr>
<tr>
<td><strong>Power Supplies</strong></td>
<td>Power supplies not included in base unit. Order separately, see Accessories section.</td>
<td>Power supplies not included in base unit. Order separately, see Accessories section.</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Fixed modular, standalone</td>
<td>Fixed modular, standalone</td>
</tr>
<tr>
<td><strong>Memory and processor</strong></td>
<td>256 MB RAM 32 MB flash memory</td>
<td>256 MB RAM 32 MB flash memory</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td>Up to 214 Mpps</td>
<td>Up to 214 Mpps</td>
</tr>
<tr>
<td><strong>Switching capacity</strong></td>
<td>384 Gbps</td>
<td>384 Gbps</td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PoE total power Class 3 (watts)</strong></td>
<td>96 ports non-redundant, 48 ports redundant</td>
<td>96 ports non-redundant, 48 ports redundant</td>
</tr>
<tr>
<td><strong>PoE total power Class 2 (watts)</strong></td>
<td>96 ports fully redundant</td>
<td>96 ports fully redundant</td>
</tr>
<tr>
<td><strong>PoE power per port (watts)</strong></td>
<td>15.4 W for Class 3</td>
<td>15.4 W for Class 3</td>
</tr>
<tr>
<td><strong>IEEE 802.3af Compliant</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>NMS Policy Manager, Automated Security Manager (additional license), command line interface, web browser</td>
<td>NMS Policy Manager, Automated Security Manager (additional license), command line interface, web browser</td>
</tr>
<tr>
<td><strong>Physical Spec</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (HxWxD)</strong></td>
<td>3.5x17.3x19 in / 8.8x44.1x48.1 cm</td>
<td>3.5x17.3x19 in / 8.8x44.1x48.1 cm</td>
</tr>
<tr>
<td><strong>Net Weight (g/lb/Kg)</strong></td>
<td>21.16 lb / 9.598 kg</td>
<td>21.30 lb / 9.662 kg</td>
</tr>
<tr>
<td><strong>MTBF (Hrs)</strong></td>
<td>119,152</td>
<td>107,645</td>
</tr>
<tr>
<td><strong>Thermal Output (BTUs/Hr)</strong></td>
<td>429</td>
<td>443</td>
</tr>
<tr>
<td><strong>Environmental Specifications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
<td>100-240 VAC</td>
<td>100-240 VAC</td>
</tr>
<tr>
<td><strong>Input Frequency</strong></td>
<td>50-60 Hz</td>
<td>50-60 Hz</td>
</tr>
<tr>
<td><strong>Input Current</strong></td>
<td>1.7 A @100 VAC / 0.7 A @240 VAC</td>
<td>1.8 A @100 VAC / 0.7 A @240 VAC</td>
</tr>
<tr>
<td><strong>Power Consumption (watts)</strong></td>
<td>126 W</td>
<td>130 W [Without PoE power draw]</td>
</tr>
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### Specifications (Cont.)

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temp. (C/F)</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
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<tr>
<td>Non-Operating/Storage Temp. (C/F)</td>
<td>-40-70°C / -40-158°F</td>
<td>-40-70°C / -40-158°F</td>
<td>-40-70°C / -40-158°F</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
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</tr>
<tr>
<td>Operating Humidity</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
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<tr>
<td><strong>Acoustics</strong></td>
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</tr>
<tr>
<td>Low Speed</td>
<td>52 dB</td>
<td>52 dB</td>
<td>52 dB</td>
</tr>
<tr>
<td>High Speed</td>
<td>62 dB</td>
<td>62 dB</td>
<td>62 dB</td>
</tr>
<tr>
<td><strong>Agency &amp; Standards Specifications</strong></td>
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<tr>
<td>Standard Safety (UL)</td>
<td>UL/CB/LVD</td>
<td>UL/CB/LVD</td>
<td>UL/CB/LVD</td>
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<tr>
<td><strong>Electromagnetic Compatibility</strong></td>
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</tr>
<tr>
<td>Standard EMC</td>
<td>CE / FCC Class A / VCCI / C-Tick / BSMI</td>
<td>CE / FCC Class A / VCCI / C-Tick / BSMI</td>
<td>CE / FCC Class A / VCCI / C-Tick / BSMI</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
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<tr>
<td>Non-Operational Shock and Drop</td>
<td>ISTA 2A</td>
<td>ISTA 2A</td>
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### IOMs

<table>
<thead>
<tr>
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<td><strong>Physical Specs</strong></td>
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</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>1.6x.8x12.6 in / 4.1x20.5x32 cm</td>
<td>1.6x.8x12.6 in / 4.1x20.5x32 cm</td>
<td>1.6x.8x12.6 in / 4.1x20.5x32 cm</td>
<td>1.6x.8x12.6 in / 4.1x20.5x32 cm</td>
<td>0.63x.69x4.49 in / 1.6x1.7x11.4 cm</td>
</tr>
<tr>
<td>Net Weight (g/lb/Kg)</td>
<td>2.43 lb / 1.1 kg</td>
<td>3.09 lb / 1.4 kg</td>
<td>2.20 lb / 1.1 kg</td>
<td>2.43 lb / 1.1 kg</td>
<td>0.14 lb / 0.064 kg</td>
</tr>
<tr>
<td>MTBF (Hrs)</td>
<td>354,050</td>
<td>394,524</td>
<td>346,617</td>
<td>246,568</td>
<td>1,114,579</td>
</tr>
<tr>
<td>Thermal Output (BTUs/Hr)</td>
<td>119</td>
<td>79</td>
<td>92</td>
<td>136</td>
<td>13</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Voltage</td>
<td>54V DC</td>
<td>54V DC</td>
<td>54V DC</td>
<td>54V DC</td>
<td>54V DC</td>
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<tr>
<td>Input Current</td>
<td>0.65</td>
<td>0.43</td>
<td>0.41</td>
<td>0.74</td>
<td>0.07</td>
</tr>
<tr>
<td>Power Consumption (watts)</td>
<td>35 W</td>
<td>23 W</td>
<td>27 W</td>
<td>40 W</td>
<td>4 W</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temp. (C/F)</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
<td>0-50°C / 32-122°F</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
<td>5%-95% non-condensing</td>
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</tbody>
</table>

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*Extreme networks*
Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>G3</td>
<td>24-port 10/100/1000 switch with two SFP combo ports and 3 modular expansion slots (power supply not included)</td>
</tr>
<tr>
<td>G3G124-24P</td>
<td>24-port 10/100/1000 PoE switch with two SFP combo ports and 3 modular expansion slots (power supply not included)</td>
</tr>
<tr>
<td>G3G170-24</td>
<td>24-port SFP switch with 3 modular expansion slots (power supply not included)</td>
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<tr>
<td>G3G-24TX</td>
<td>24 10/100/1000 port IOM with 2 Combo SFP ports</td>
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<tr>
<td>G3G-24SFP</td>
<td>24-port 1000BaseX IOM</td>
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<tr>
<td>G3K-2XFP</td>
<td>2-port 10Gbe XFP IOM</td>
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<tr>
<td>G3K-4XFP</td>
<td>4-port 10 Gbe XFP IOM</td>
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<tr>
<td>G3G-POE-B</td>
<td>Power over Ethernet daughter card</td>
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<tr>
<td>G3L3-LIC</td>
<td>Extreme Networks G3 IPv4 Advanced Routing License (OSPF, PIM, DVMRP, VRRP), Per Switch License</td>
</tr>
<tr>
<td>G3IPv6-LIC</td>
<td>Extreme Networks G3 IPv6 Routing License, Per Switch License</td>
</tr>
<tr>
<td>G3-PWR-POE</td>
<td>1200 watt power supply (requires 20 amp circuit)</td>
</tr>
<tr>
<td>G3-PWR</td>
<td>400 watt power supply (requires 15 amp circuit)</td>
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</tbody>
</table>

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.

The Extreme Networks G3 comes with a lifetime warranty against manufacturing defects. For full warranty terms and conditions please go to: 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.