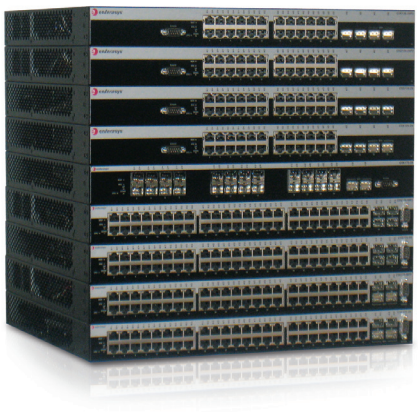
enterasys® Secure Networks™

DATASHEET

C-Series C5

Gigabit Ethernet Stackable L2/L3/L4 Switch



Future-proofed with 802.3at high-power PoE and IPv6 routing 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

2.11Tbps capacity and 809.5Mpps

Product Overview

The Enterasys C5 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 C5 is an excellent choice for environments that require complete multi-layer switching capabilities and support for high density 10/100/1000 Ethernet ports and 10GE uplinks. The C5 also includes dynamic IPv4 and IPv6 routing and switching built into the hardware and policy-based automation capabilities for advanced edge deployments.

The C5 incorporates the new 802.3at high-power PoE on all ports, which translates 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 C5 provides high port density in a 1U footprint and is environmentally friendly by design. The C5'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 C5 network investment will sustain a secure, feature-rich and cost-effective network well into the future.

The C5'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 C5's intelligent queuing mechanisms ensure that mission-critical applications receive prioritized access to network resources.

Benefits

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

There is nothing more important than our customers.

Reliability and Availability

The C5 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 C5 and complete power redundancy is provided by an optional external power supply. The C5 redundant power supply provides load sharing, backup, or additive PoE power to a C5 stackable switch. With the power supply connected, the power requirement for the switch is equally shared by the two power supplies thereby stressing the power supplies less and increasing the lifetime and reliability of the power supplies.

A virtual switch can be created by interconnecting as many as eight C5s in a single stack, which can be managed via a single IP address with redundant management connections. The C5'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. Up to eight Ethernet ports can be grouped together to create a multi-link aggregation group (LAG). A LAG's Ethernet ports can be co-located on a single C5 or they can be distributed across multiple C5s within a stack to prevent a switch-level failure from disrupting data communications. The C5 also supports equal cost multipath protocol (ECMP) and virtual router redundancy protocol (VRRP) to strengthen its ability to quickly recover from a network failure. The C5 also includes Host CPU Protection support to help prevent Denial of Service (DoS) and BPDU attacks.

Advanced Quality of Service

Robust Quality of Service features enable strong support for integrated multimedia networks, as well as all types of data-intensive applications. The C5 is a standards-based solution optimized for multimedia applications, including VoIP, videoconferencing and real-time collaboration. The C5 uses multiple standards-based discovery methods with Enterasys policy capabilities to automatically identify and provision VoIP services for IP phones from all major vendors. C5 switches provide dynamic mobility for VoIP clients and 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.

Advanced packet buffering on the C5 means less jitter on the network and a greater level of QoS for time-sensitive applications, such as VoIP and IP video, resulting in better network performance.

Security

The C5 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 Enterasys Network Management Suite's Policy Manager or a standard CLI, the Enterasys 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.

Administrators can easily transition from RFC 3580 and complex access control list (ACL) deployments to the Enterasys 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 C5 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 Enterasys role-based policy, administrators are able to manipulate DSCP and 802.1p rewrite for classification and prioritization of network traffic.

The C5 allows administrators even more network visibility, with the ability to audit their network for adherence to compliance regulations, such as PCI or HIPAA. The C5 is able to segment roles down to specific business functions, such as marketing, finance, HR or corporate, tailoring employee access to sensitive information.

Investment Protection

The C5 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 C-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.enterasys.com/support/warranty.aspx.

Performance & Scalability

The C5, 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 264 Gbps, the C5 provides up to 48 10/100/1000 Ethernet ports as well as 2 SFP+ ports, with the ability to support both 1GE and 10GE uplinks on the same port. Leveraging the C5's stacking capability, as many as 8 C5s (both 24-port and 48-port combinations) can be interconnected in a single stack to create a virtual switch that provides 2.11 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 Protocols
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 Ready (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 Enterasys Policy
IEEE 802.3ac – VLAN Tagging Extensions
Port-based VLAN (private port/private VLAN)
Tagged-based VLAN
VLAN Marking of Mirror Traffic

Security
ARP Spoof Protection
DHCP Spoof Protection
IEEE 802.1X Port Authentication
MAC-based Port Authentication
RADIUS Accounting for network access
RADIUS Client
RFC 3580 – IEEE 802.1X RADIUS Usage Guidelines
Multi-user Authentication
Password Protection (encryption)
Secure Networks Policy
Secured Shell (SSHv2)
Secured Socket Layer (SSL)
User and IP Phone Authentication
Web-based Port Authentication

IPv4 Routing
Standard Access Control List (ACLs)
Extended ACLs
VLAN-based ACLs
ARP & ARP Redirect
DVMRP
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 2328 – OSPF version 2
RFC 2338 – IP Redundancy VRRP
RFC 2362 – PIM-SM
RFC 2453 – RIP v2
RFC 3046 – DHCP/BootP Relay
RFC 3376 – IGMPv3
RFC 3768 – VRRP – Virtual Router Redundancy Protocol Static Routes

IPv6 Routing
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 2464 – IPv6 over Ethernet
RFC 2473 – Generic Packet Tunneling in IPv6
RFC 2271 – SNMP Framework MIB
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 Sockets API for
RFC 3587 – IPv6 Global Unicast Address Format
RFC 3736 – Stateless DHCPv6
Dual IPv4/IPv6 TCP/IP Stack

MIB Support
Enterasys Entity MIB
Enterasys Policy MIB
Enterasys VLAN Authorization 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 1724 – RIPv2 MIB Extension
RFC 1850 – OSPF MIB
RFC 2096 – IP Forwarding Table MIB
RFC 2131, RFC 3046 – DHCPClient/Relay
RFC 2233 – IF-MIB
RFC 2465 – IPv6 MIB
RFC 2466 – ICMPv6 MIB
RFC 2571 – SNMP Framework 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 2933 – IGMP MIB
RFC 2934 – PIM MIB for IPv4
RFC 3413 – SNMP v3 Applications MIB
RFC 3414 – SNMP v3 User-based Security Module (USM) MIB
RFC 3584 – SNMP Community MIB
RFC 3621 – Power over Ethernet MIB

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
Queuing Control – Strict and Weighted Round Robin
Source/Destination IP Address
Source/Destination MAC Address
Dynamic and Static MAC Locking
EAP Pass-Thru
RFC 2474 Definition of Differentiated Services Field

Features / Standards and Protocols (cont.)

Management
Alias Port Naming
Command Line Interface (CLI)
Configuration Upload/Download
Dual IPv4/IPv6 Management Support
Editable Text-based Configuration File
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 1321 – The MD5 Message-Digest Algorithm
RFC 1901 – Community-based SNMPv2
RFC 2030 Simple Network Time Protocol (SNTP)
RFC 2933 – IGMP MIB
RFC 3176 – sFlow
RFC 3413 – SNMPV3 Applications
RFC 3414 –User-based Security Module (USM) for SNMPv3
RFC 3415 – View-based Access Control Model for SNMP
RFC 3826 – Advanced Encryption Standard (AES) for SNMP
RMON (Stats, History, Alarms, Events, Filters, Packet Capture)
Secure Copy (SCP)
Secure FTP (SFTP)
Simple Network Management Protocol (SNMP) v1/v2c/v3
SSHv2
RFC 3164 – The BSD Syslog Protocol
TACACS+ support
Authentication, Authorization and Auditing
Web-based Management
Webview via SSL Interface

Switch Model Specifications

	C5G124-24	C5G124-24P2	C5G124-48	C5G124-48P2
Performance				
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)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)
Aggregate Throughput Capacity (switch / stack)	176 Gbps (130.9 Mpps) / 1,408 Gbps (1,047.5 Mpps)	176 Gbps (130.9 Mpps) / 1,408 Gbps (1,047.5 Mpps)	224 Gbps (166.6 Mpps) / 1,792 Gbps (1,333.2 Mpps)	224 Gbps (166.6 Mpps) / 1,792 Gbps (1,333.2 Mpps)
PoE Specifications				
802.3af Interoperable	N/A	Yes	N/A	Yes
802.3at Interoperable	N/A	Yes	N/A	Yes
System Power	N/A	850 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	850 watts per switch with up to 30 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection
Physical Specifications				
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	5.03 kg (11.10 lb)	6.21 kg (13.70 lb)	5.42 kg (11.95 lb)	6.60 kg (14.55 lb)
MTBF	395,557 hours	289,425 hours	311,897 hours	229,532 hours
Physical Ports	• (24) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports • (4) Combo SFP ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port	• (24) 10/100/1000 PoE (.af+.at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports • (4) Combo SFP ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port	• (48) 10/100/1000 auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports • (4) Combo SFP ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port	• (48) 10/100/1000 PoE (.af+.at) auto-sensing, auto-negotiating MDI/MDI-X RJ45 ports • (4) Combo SFP ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port
Power Requirements				
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	12 A Max	2 A Max	12 A Max
Power Consumption	65 watts	125 watts	101 watts	150 watts

Switch Model Specifications (cont.)

	C5G124-24	C5G124-24P2	C5G124-48	C5G124-48P2
Temperature				
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	222 BTUs/Hr	428 BTUs/Hr	345 BTUs/Hr	513 BTUs/Hr
Humidity				
Operating Humidity	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing
Vibration				
	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
Shock				
	IEC 68-2-29	IEC 68-2-29	IEC 68-2-29	IEC 68-2-29
Drop				
	IEC 68-2-32	IEC 68-2-32	IEC 68-2-32	IEC 68-2-32
Acoustics				
Front of switch (normal operation)	44 dB	45.5 dB	46 dB	45.5 dB
Altitude				
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)
Agency and Regulatory Standard Specifications				
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)

	C5K125-24	C5K125-24P2	C5K125-48	C5K125-48P2	C5K175-24
Performance					
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	65.5 Mpps / 523.8 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)	88 Gbps (65.5 Mpps) / 704 Gbps (523.8 Mpps)
Stacking Capacity (switch / stack)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)	128 Gbps (95.2 Mpps) / 1,024 Gbps (761.8 Mpps)
Aggregate Throughput Capacity (switch / stack)	216 Gbps (160.7 Mpps) / 1,728 Gbps (1,285.6 Mpps)	216 Gbps (160.7 Mpps) / 1,728 Gbps (1,285.6 Mpps)	264 Gbps (196.4 Mpps) / 2,112 Gbps (1,571.3 Mpps)	264 Gbps (196.4 Mpps) / 2,112 Gbps (1,571.3 Mpps)	216 Gbps (160.7 Mpps) / 1,728 Gbps (1,285.6 Mpps)
PoE Specifications					
802.3af Interoperable	N/A	Yes	N/A	Yes	N/A
802.3at Interoperable	N/A	Yes	N/A	Yes	N/A

Switch Model Specifications (cont.)

	C5K125-24	C5K125-24P2	C5K125-48	C5K125-48P2	C5K175-24
System Power	N/A	850 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	850 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
Physical Specifications					
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")	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)	4.97 kg (10.95 lb)
MTBF	365,615 hours	273,083 hours	284,345 hours	213,965 hours	395,839 hours
Physical Ports	• (24) 10/100/1000 auto-sensing, auto-negotiating MDI/ MDI-X RJ45 ports • (2) Combo SFP ports • (2) SFP+ ports • (2) dedicated stacking ports • DB9 console port • (1) RPS port	• (24) 10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/ MDI-X RJ45 ports • (2) Combo SFP ports • (2) SFP+ ports • (2) dedicated stacking ports • DB9 console port • (1) RPS port	• (48) 10/100/1000 auto-sensing, auto-negotiating MDI/ MDI-X RJ45 ports • (2) Combo SFP ports • (2) SFP+ ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port	• (48) 10/100/1000 PoE (.af + .at) auto-sensing, auto-negotiating MDI/ MDI-X RJ45 ports • (2) Combo SFP ports • (2) SFP+ ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port	• (24) SFP • (2) SFP+ ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port
Power Requirements					
Normal Input Voltage	100 - 240 VAC	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	50 – 60 Hz
Input Current	2 A Max	12 A Max	2 A Max	12 A Max	2 A Max
Power Consumption	74 watts	130 watts	120 watts	165 watts	69 watts
Temperature					
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)	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)	-40° to 70° C (-40° to 158° F)
Heat Dissipation	253 BTUs/Hr	445 BTUs/Hr	408 BTUs/Hr	565 BTUs/Hr	234 BTUs/Hr
Humidity					
Operating Humidity	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing
Vibration					
	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	IEC 68-2-6, IEC68-2-36
Shock					
	IEC 68-2-29	IEC 68-2-29	IEC 68-2-29	IEC 68-2-29	IEC 68-2-29
Drop					
	IEC 68-2-32	IEC 68-2-32	IEC 68-2-32	IEC 68-2-32	IEC 68-2-32
Acoustics					
Front of switch (normal operation)	45 dB	45.5 dB	47 dB	46 dB	46 dB
Altitude					
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)	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)	15,000 ft (4,572 m)

Agency and Regulatory Standard Specifications					
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	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	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)	2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)

Redundant Power Supply Equipment Specifications

STK-RPS-1005CH3 Power Shelf

Power Supply Slots
3

Dimensions (H x W x D)*
5.5 cm (2.2”) x 44.0 cm (17.3”) x 35.1 cm (13.8”)

Weight
0.95 kg (2.09 lbs)

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
5.27 kg (11.6 lbs)

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)

**Note: dimensions include integrated rack mount ears*

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-1005PS Power Supply

Dimensions (H x W x D)*
4.3 cm (1.7”) x 15.4 cm (6.06”) x 34.0 cm (13.39”)

Net Weight (Unit Only)
2.1 kg (4.63 lb)

Gross Weight (Packaged Unit)
3.53 kg (7.77 lb)

MTBF
800,000 hours

Operating Temperature
0° C to 50° C (32° F to 122° F)

Storage Temperature
-40° C to 70° C (-40° F to 158° F)

Operating Relative Humidity
5% to 95%

AC Input Frequency Range
50-60 Hz

AC Input Voltage Range
100 - 240 VAC

Maximum Output Power
1005 W continuous

Ordering Information

Part Number	Description
C5 Switches	
C5G124-24	(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
C5G124-24P2	(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
C5G124-48	(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
C5G124-48P2	(48) 10/100/1000 PoE (.at + .af) RJ45 ports, (4) combo SFP ports, (2) dedicated high-speed dedicated stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports
C5K125-24	(24) 10/100/1000 RJ45 ports, (2) combo SFP ports, (2) SFP+, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports + (2) 1GE or 10GE SFP+ ports
C5K125-24P2	(24) 10/100/1000 PoE (.at + .af) RJ45 ports, (2) combo SFP ports, (2) SFP+, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) Gigabit ports + (2) 1GE or 10GE SFP+ ports
C5K125-48	(48) 10/100/1000 RJ45 ports, (2) combo SFP ports, (2) SFP+, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports + (2) 1GE or 10GE SFP+ ports
C5K125-48P2	(48) 10/100/1000 PoE (.at + .af) RJ45 ports, (2) combo SFP ports, (2) SFP+, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (48) Gigabit ports + (2) 1GE or 10GE SFP+ ports
C5K175-24	(24) SFP, (2) SFP+ ports, (2) dedicated high-speed stacking ports and external RPS connector. Total active ports per switch: (24) SFP, (2) 1GE or 10GE SFP+ ports
Optional Software Licenses	
C5L3-LIC	C5 advanced IPv4 (OSPF, PIM-SM, DVMRP and VRRP) and IPv6 routing licensing (OSPF) (per switch)
Cables	
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)
SSCON-CAB	Spare DB9 Console Cable
Redundant Power Supplies	
STK-RPS-1005CH3	3-slot modular power supply chassis (power supply STK-RPS-1005PS sold separately)
STK-RPS-1005PS	1005W 802.3at PoE redundant power supply with load-balancing support
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

Transceivers

Enterasys 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. The Enterasys C5 includes SFP+ transceivers that can support both 10GE and 1GE transceivers. All Enterasys 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.enterasys.com/products/transceivers-ds.pdf.

Warranty

As a customer-centric company, Enterasys 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.

C-Series switches come with the Enterasys lifetime warranty against manufacturing defects. For full warranty terms and conditions please go to: www.enterasys.com/support/warranty.aspx.

Service and Support

Enterasys 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 Enterasys account executive for more information about Enterasys Service and Support.

Contact Us

For more information, call Enterasys Networks toll free at 1-877-801-7082, or +1-978-684-1000 and visit us on the Web at enterasys.com

Thought Leadership
Patented Innovation

enterasys® Secure Networks™

Delivering on our promises. On-time. On-budget.