

C-Series C3

Policy-based Gigabit Ethernet Stackable L2/L3/L4 Edge Switch



Product Overview

The Enterasys C3 is a high-performance, Gigabit Ethernet edge switch that provides scalable, wire-rate performance in support of the bandwidth-intensive and delay-sensitive requirements of today's demanding applications. With support for 16,000 MAC addresses, the C3 is an excellent choice for environments that require complete multi-layer switching capabilities and support for high density 10/100/1000 Ethernet ports, 10GE ports, and dynamic routing capabilities. The C3 is well-suited for Gigabit Ethernet networks as well as 100 Mbps networks that are about to migrate to a predominantly Gigabit Ethernet network with 10GE and/or dynamic IPv4 / IPv6 routing requirements. In addition to its complete multi-layer switching capabilities, the C3 also supports both IPv4 and IPv6 routing as well as multicast routing protocols. Along with a switch capacity of 192 Gbps, the C3 provides up to 48 10/100/1000 Ethernet ports as well as 2 10GE uplink ports. Leveraging the C3's wire-rate stacking capability, as many as 8 C3s (both 24-port and 48-port combinations) can be interconnected in a single stack to create a virtual switch that provides 1.54 Tbps of capacity and up to 384 10/100/1000 Ethernet ports as well as 16 10GE uplink ports.

Robust QoS features enable strong support for integrated multimedia networks, including Voice over IP (VoIP) and video, as well as all types of data-intensive applications. The C3'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. In conjunction with its non-blocking L2 switching and L3 routing architecture, the C3's intelligent queuing mechanisms ensure that mission-critical applications receive prioritized access to network resources.

The C3 provides a secure network by utilizing its authentication and security features, which can be applied at the port level or at the user level. Making use of the NMS 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. 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).

High-availability design assures reliable network operations

Granular QoS capabilities support converged multimedia networks

Aligns network resource utilization with business goals and priorities

PoE and IPv4 & IPv6 routing support a variety of networks and devices

Investment protection via limited lifetime warranty

1.54 Tbps capacity and 571.2 Mpps

Benefits

Business Alignment

- Granular QoS capabilities support converged multimedia networks
- Aligns network resource utilization with business goals and priorities
- Reliable network operation for mission-critical applications

Operational Efficiency

- Scalable architecture supports continued growth of network capacity
- Consolidated management capabilities reduce network operational expenses
- Security capabilities without the high overhead

Security

- Network resources securely allocated according to user roles
- Network security maintained concurrently with user mobility
- Architecture designed with integral network security

Support and Service

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

There is nothing more important than our customers.

The C-Series product line provides high port density in a 1U footprint and is environmentally friendly by design. By maximizing port density within a given amount of rack space, the C3 minimizes its cooling requirements. The C3's overall electrical requirement is further reduced by a low current draw and an extreme tolerance for high environmental temperatures. A highly-scalable architecture and a limited lifetime warranty ensures that a C3 network investment will sustain a secure, feature-rich and cost-effective network well into the future.

Reliability and Availability

The C3 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 C3 and complete power redundancy is provided by an optional external power supply. In addition to the standard version of the C3, there is also a redundant Power over Ethernet (PoE) version of the C3 which supports network devices that require external power such as wireless access points, VoIP phones, and network cameras. A virtual switch can be created by interconnecting as many as 8 C3s in a single stack, which can be managed via a single IP address with redundant management connections. The C3's closed-loop stacking (CLS) capability utilizes bi-directional switch interconnects to maintain connectivity within the virtual switch despite any physical switch-level failure. Up to 8 Ethernet ports can be grouped together to create a multi-link aggregation group (LAG). A LAG's Ethernet ports can be collocated on a single C3 or they can be distributed across multiple C3s within a stack to prevent a switch-level failure from disrupting data communications. The C3 also supports equal cost multipath protocol (ECMP) and virtual router redundancy protocol (VRRP) to strengthen its ability to quickly recover from a network failure.

Advanced Quality of Service

Robust QoS features enable strong support for integrated multimedia networks, including VoIP and video, as well as all types of data-intensive applications. The C3 provides highly customizable Layer 2/3/4 packet classification capabilities, which can be based upon physical port ID, MAC address, IP subnet, IP address, IP protocol type, IP Type of Service (ToS), differentiated services code point (DSCP), and TCP/UDP port. The C3 provides 8 hardware-based priority queues per Ethernet port, which work together with its packet classification capabilities to support a suite of differentiated services with as many as 8 distinct priority levels. The strict and weighted round robin queuing algorithms ensure that mission-critical applications receive prioritized access to network resources.

Security

The C3 provides a secure network by utilizing its authentication and security features, which can be applied at the port level or at the user level. Making use of the NMS 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 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 C3 also supports access control lists (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).

Investment Protection

The C3 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. Customers can grow and/or enhance their networks while protecting their investment by adding C3s into existing C-Series networks and/or stacks. When multiple C3s are stacked together, each switch in the stack assumes the feature set that is common to all switches in the stack to ensure operational compatibility. All C-Series products include a limited lifetime warranty that continues for 5 years after the date of product discontinuation. For more information regarding warranty terms and conditions please go to <http://www.enterasys.com/support/warranty.aspx>.

Performance & Scalability

The C3 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 192 Gbps, the C3 provides up to 48 10/100/1000 Ethernet ports as well as 2 10GE uplink ports. Leveraging the C3's wire-rate stacking capability, as many as 8 C3s (both 24-port and 48-port combinations) can be interconnected in a single stack to create a virtual switch that provides 1.54 Tbps of capacity and up to 384 10/100/1000 Ethernet ports as well as 16 10GE uplink ports. The C3 supports hundreds of distinct policies (rules) that enable granular definition of network access capabilities for each role, thus aligning network resource utilization with business goals and priorities.

Standards and Protocols

MAC Address Table Size

16,000

VLANs

4,096 VLAN IDs

1,024 VLAN Entries per Stack

Embedded Services

Ingress Rate Limiting

IP TOS Rewrite

Layer 2/3/4 Classification

Multi-layer Packet Processing

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 802.3i – 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

Per-port 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

Quality of Service

8 Priority Queues per Port

802.3x Flow Control

IP DSCP – Differentiated Services Code Point

IP Precedence

IP Protocol

Queuing Control – Strict and Weighted

Round Robin

Source/Destination IP Address

Source/Destination MAC Address

Security

ARP Spoof Protection

DHCP Spoof Protection

Dynamic and Static MAC Locking

EAP Pass Thru

IEEE 802.1X Port Authentication

MAC-based Port Authentication

RADIUS Accounting for MAC Authentication

RADIUS Client

RFC 3580 – IEEE 802.1X RADIUS Usage

Guidelines

Multi-user Authentication per Gigabit Port

Password Protection (encryption)

Secured Shell (SSHv2)

Secured Socket Layer (SSL)

User and IP Phone Authentication

Web-based Port Authentication

IPv4 Routing & Multicast

Access Control Lists (ACLs)

ARP & ARP Redirect

DVMRP

Extended ACLs

IP Helper Address

RFC 826 – Ethernet ARP

RFC 1058 – RIP v1

RFC 1256 – ICMP Router Discovery Messages

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 3768 – VRRP – Virtual Router

Redundancy Protocol

Static Routes

VLAN-based ACLs

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 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 IPv6

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 – 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 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

Standards and Protocols (cont.)

Management

Alias Port Naming	RFC 793 – TCP	(AES) for SNMP
Command Line Interface (CLI)	RFC 826 – ARP	RMON (Stats, History, Alarms, Events, Filters, Packet Capture)
Configuration Upload/Download	RFC 854 – Telnet	Secure Copy (SCP)
Editable Text-based Configuration File	RFC 951 – BootP	Secure FTP (SFTP)
TFTP Client	RFC 1157 – SNMP	Simple Network Management Protocol (SNMP) v1/v2c/v3
Multi-configuration File Support	RFC 1321 – The MD5 Message-Digest Algorithm	Simple Network Time Protocol (SNTP)
NMS Automated Security Manager	RFC 1901 – Community-based SNMPv2	SSH v2
NMS Console	RFC 2271 – SNMP Framework MIB	RFC 3164 – The BSD Syslog Protocol
NMS Inventory Manager	RFC 3176 – sFlow	TACACS+ for Management Authentication, Authorization and Auditing
NMS Policy Manager	RFC 3413 – SNMPv3 Applications	Web-based Management
Node/Alias Table	RFC 3414 – User-based Security Model for SNMPv3	Webview via SSL Interface
RFC 768 – UDP	RFC 3415 – View-based Access Control Model for SNMP	
RFC 783 – TFTP	RFC 3826 – Advanced Encryption Standard	
RFC 791 – IP		
RFC 792 – ICMP		

Switch Model Specifications

	C3G124-24	C3G124-24P	C3G124-48	C3G124-48P
Performance				
Throughput Capacity wire-speed Mpps (switch / stack)	35.7 Mpps / 285.7 Mpps	35.7 Mpps / 285.7 Mpps	71.4 Mpps / 571.2 Mpps	71.4 Mpps / 571.2 Mpps
Switching Capacity (switch / stack)	48 Gbps / 384 Gbps	48 Gbps / 384 Gbps	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps
Stacking Capacity (switch / stack)	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps
Aggregate Throughput Capacity (switch / stack)	144 Gbps / 1.15 Tbps	144 Gbps / 1.15 Tbps	192 Gbps / 1.54 Tbps	192 Gbps / 1.54 Tbps
PoE Specifications				
802.3af Compliance	N/A	Yes	N/A	Yes
System Power	N/A	375 watts per switch with up to 15.4 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 15.4 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	5.05 kg (11.11 lb)	6.25 kg (13.75 lb)	5.35 kg (11.77 lb)	6.55 kg (14.41 lb)
MTBF	160,505 hours	114,280 hours	106,916 hours	79,905 hours
Physical Ports	<ul style="list-style-type: none"> • (24) 10/100/1000 auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port 	<ul style="list-style-type: none"> • (24) 10/100/1000 PoE auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port 	<ul style="list-style-type: none"> • (48) 10/100/1000 auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port 	<ul style="list-style-type: none"> • (48) 10/100/1000 PoE auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port
Power Requirements				
Nominal 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	0.8 A Max	7.5 A Max	1.4 A Max	7.5 A Max
Power Consumption	66 watts	539 watts	143 watts	583 watts

Switch Model Specifications (cont.)

	C3G124-24	C3G124-24P	C3G124-48	C3G124-48P
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	294 BTUs/Hr	1,451 BTUs/Hr	441 BTUs/Hr	1,670 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
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

	C3K122-24	C3K122-24P	C3K172-24
Performance			
Throughput Capacity wire-speed Mpps (switch / stack)	65.5 Mpps / 523.8 Mpps	65.5 Mpps / 523.8 Mpps	65.5 Mpps / 523.8 Mpps
Switching Capacity (switch / stack)	88 Gbps / 704 Gbps	88 Gbps / 704 Gbps	88 Gbps / 704 Gbps
Stacking Capacity (switch / stack)	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps	96 Gbps / 768 Gbps
Aggregate Throughput Capacity (switch / stack)	184 Gbps / 1.47 Tbps	184 Gbps / 1.47 Tbps	184 Gbps / 1.47 Tbps
PoE Specifications			
802.3af Compliance	N/A	Yes	N/A
System Power	N/A	375 watts per switch with up to 15.4 watts per port Per-port switch power monitor: • Enable/disable • Priority safety • Overload & short circuit protection	N/A

Switch Model Specifications (cont.)

	C3K122-24	C3K122-24P	C3K172-24
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")
Net Weight	5.125 kg (11.3 lbs)	6.325 kg (13.9 lbs)	5.075 kg (11.2 lbs)
MTBF	134,714 hours	98,759 hours	166,032 hours
Physical Ports	<ul style="list-style-type: none"> • (24) 10/100/1000 auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (1) expansion slot • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port 	<ul style="list-style-type: none"> • (24) 10/100/1000 PoE auto-sensing, auto-negotiating, MDI/MDI-X RJ45 ports • (4) mini-GBIC combo ports • (1) expansion slot • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port 	<ul style="list-style-type: none"> • (24) mini-GBIC ports • (1) expansion slot • (2) dedicated stacking ports • (1) DB9 console port • (1) RPS port
Power Requirements			
Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC	100 – 240 VAC
Input Frequency	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
Input Current	1.5 A	7.5 A Max	1.5 A
Power Consumption			
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)
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)
Heat Dissipation	325.9 BTUs (95.5 watts)/hr	1894 BTUs (555.1 watts)/hr	223.1 BTUs (65.4 watts)/hr
Humidity			
Operating Humidity	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
Shock			
	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
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
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

Redundant Power Supply Equipment Specifications

C2RPS-CHAS2 Power Shelf

Power Supply Slots

2

Dimensions (H x W x D)*

48.2 cm (19.0") x 5.5 cm (2.2") x 18.0 cm (7.0")

Weight

0.95 kg (2.09 lbs)

Note: dimensions include integrated rack mount ears

C2RPS-CHAS8 Power Shelf

Power Supply Slots

8

Dimensions (H x W x D)*

44.0 cm (117.3") x 22.26 cm (8.77") x 26.4 cm (10.4")

Weight

5.27 kg (11.6 lbs)

C2RPS-PSM 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

5° C to 40° C (41° F to 104° F)

Storage Temperature

-30° C to 73° C (-22° F to 164° F)

Operating Relative Humidity

10% to 90%

AC Input Frequency Range

50-60 Hz

AC Input Voltage Range

100 - 240 VAC

Maximum Output Power

156 W continuous

C2RPS-POE 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 lbs)

Gross Weight (Packaged Unit)

4.95 kg (10.89 lbs)

MTBF

589,644 hours at 25° C (77° F)

Operating Temperature

5° C to 40° C (41° F to 104° F)

Storage Temperature

-30° C to 73° C (-22° F to 164° F)

Operating Relative Humidity

10% to 90%

AC Input Frequency Range

50-60 Hz

AC Input Voltage Range

100 - 240 VAC

Maximum Output Power

500 W continuous

Ordering Information

C3 Switches	
Part Number	Description
C3G124-24	C3 with (24) 10/100/1000 RJ45 ports, (4) mini-GBIC combo ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit ports.
C3G124-24P	C3 with (24) 10/100/1000 PoE RJ45 ports, (4) mini-GBIC combo ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit ports.
C3G124-48	C3 with (48) 10/100/1000 RJ45 ports, (4) mini-GBIC combo ports, and (2) dedicated stacking ports. Total active ports per switch: (48) Gigabit ports.
C3G124-48P	C3 with (48) 10/100/1000 PoE RJ45 ports, (4) mini-GBIC combo ports, and (2) dedicated stacking ports. Total active ports per switch: (48) Gigabit ports.
C3K122-24	C3 with (24) 10/100/1000 RJ45 ports, (4) mini-GBIC combo ports, (1) expansion slot that can house (2) 10GE XFP ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit + (2) 10GE ports.
C3K122-24P	C3 with (24) 10/100/1000 PoE RJ45 ports, (4) mini-GBIC combo ports, (1) expansion slot that can house (2) 10GE XFP ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit + (2) 10GE ports.
C3K122-24P-10G	C3 with (24) 10/100/1000 PoE RJ45 ports, (4) mini-GBIC combo ports, (2) 10GE XFP ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit + (2) 10GE ports.
C3K172-24	C3 with (24) mini-GBIC ports, (1) expansion slot that can house (2) 10GE XFP ports, and (2) dedicated stacking ports. Total active ports per switch: (24) Gigabit + (2) 10GE ports.
C3K-2XFP	Dual 10GE IOM for C3K stackable switches
Optional Software Licenses	
C3L3-LIC	C3 advanced IPv4 routing license (per switch) – OSPF, PIM-SM, DVMRP, and VRRP
C3IPv6-LIC	C3 IPv6 routing license (per switch)
Cables	
C2CAB-SHORT	Stacking cable for connecting adjacent switches (30 cm)
C2CAB-LONG	Stacking cable for connecting top switch to bottom switch (1 m)
C2CAB-2M	Stacking cable for all B3/C3 models (2 m)
C2CAB-5M	Stacking cable for 48-port B2/C2 models and all B3/C3 models (5 m)
SSCON-CAB	Console Cable (for use on all A2, B2, B3, C2, and C3 switches)
Redundant Power Supply Equipment	
C2RPS-CHAS2	2-slot RPS chassis (supports up to 2 C2RPS-PSMs)
C2RPS-CHAS8	8-slot RPS chassis (supports up to 8 C2RPS-PSMs)
C2RPS-PSM	150-watt redundant Non-PoE power supply with one DC cable
C2RPS-SYS	8-slot RPS chassis plus 1 C2RPS-PSM (chassis supports up to 8 C2RPS-PSMs)
C2RPS-POE	500-watt redundant PoE power supply with one DC cable

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. 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 a limited lifetime warranty against manufacturing defects. For full warranty terms and conditions please go to <http://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



© 2009 Enterasys Networks, Inc. All rights reserved. Enterasys Networks reserves the right to change specifications without notice. Please contact your representative to confirm current specifications. Please visit <http://www.enterasys.com/company/trademarks.aspx> for trademark information.

