

# SecureStack C2 Switch Family

Policy-based L2 switching with 10 gigabit uplinks and high availability stacking



High-density, high-availability stackable 10/100 or 10/100/1000 switching

Delivers Secure Networks<sup>™</sup> to the stackable edge

Multilayer switching and full Layer 3 routing

Extensive QoS support for VoIP and real-time broadcast/multicast video

Power over Ethernet and 10 Gigabit uplink models

Lifetime warranty

## Product Overview

The SecureStack C2 switch family delivers advanced switching and routing features previously found only in large enterprise core switches. A single stack density is now increased to an industry-leading 360 gigabit ports or 384 10/100 ports with 32 gigabit uplinks. Reliability and availability is assured with support for Closed Loop Stacking, redundant core connections, redundant power options, and redundant stack management. The extensive security features built into all SecureStack C2 switches make them an important part of Enterasys Secure Networks, and enable Secure Networks to be extended to the network edge.

## High-Performance and High-Availability Stacking

SecureStack C2 switches incorporate integrated stacking ports that support up to 40 Gbps of bi-directional bandwidth between any two adjacent switches for a total of 320 Gbps of stacking bandwidth. No additional stack module is required to stack the switches. Each switch has a 160 Gbps switch fabric with half of the bandwidth (80 Gbps) dedicated to stacking. In an eight-switch stack, 640 Gbps of switching bandwidth is dedicated to stacking. A single stack can comprise any combination of SecureStack C2 switches allowing a mixture of high-density 10/100, 10/100/1000, and/or Power-over-Ethernet ports to be linked to the network core via copper, multimode fiber, and/or single-mode fiber Gigabit, as well as 10-Gigabit fiber uplinks. Closed Loop Stacking is implemented, which assures that a single switch or cable connection failure in the stack will not impact the overall stack operation. The SecureStack C2 stack auto-configures, allowing stack switch units to be added or removed with minimal packet interruption. Up to eight SecureStack C2 switches can be supported in a stack with a single IP address for complete stack management. Redundant stack management is supported by assigning a primary and secondary stack manager to separate switches in the stack.

## Benefits

### Minimal Operator Intervention

- Patented Secure Networks command and control functions enable you to apply up to 768 policy rules to create a self-managed network
- Auto-discovery of network attached devices (LLDP/LLDP-MED) enable you to create new policy, configuration, location and management applications
- NetSight management console makes it easy to deploy policy changes in large networks

### Predictable Quality of Service

- Extensive controls for managing QoS by Layer 2,3 and 4 traffic, bandwidth, rate limits, user profile or application
- High availability through Loop Protect, redundant power supplies, automatic link failover and closed loop stacking

### Support and Service

- The Enterasys service and support staff is an industry best with a 95% customer satisfaction rating and an average tenure of 10 years

**There is nothing more important  
than our customers.**

## Switching Services

All SecureStack C2 switches support standards-based switching. The IEEE standards for switching IEEE 802.1D (MAC Bridges) and IEEE 802.1t (802.1D Maintenance), as well as Multiple Spanning Trees (IEEE 802.1s) and Rapid Reconvergence (IEEE 802.1w), are fully supported. All switches support up to 16,000 addresses and have eight hardware queues per port. Ethernet Flow Control (IEEE 802.3x) as well as standards-based Link Aggregation (IEEE 802.3ad) are fully supported in every switch model. In addition, all switches support Jumbo Frames (frames up to 9,216 bytes) and IGMP Snooping v1 and v2.

## Extensive Traffic Classification

SecureStack C2 switches comprise the ideal family of switches for delivering any converged network solution. A major component for supporting converged networks is traffic classification. All SecureStack C2 switches deliver extensive Layer 2/3/4 packet classification and marking at the edge based on any of the following attributes:

- MAC address
- Physical port
- IP address
- IP Protocol
- IP ToS/DSCP marking
- TCP/UDP port
- IP subnet

The classification can then be used to deny or permit access, or prioritize the traffic.

## Advanced Quality of Service

Broad support for Quality of Service makes SecureStack C2 switches an ideal choice for all types of networks, including Voice over IP, real-time and non-real-time video, and data-intensive applications. Extensive classification capabilities combined with network-wide policies and eight priority queues per port allow the SecureStack C2 to granularly rate limit traffic flows. Both weighted round robin, which keeps low priority traffic from being completely starved of bandwidth, and strict priority queuing are supported. Support for the IP Differentiated Services Code Point (DSCP) enables the switches to enforce requested service levels.

## VLAN Support

All SecureStack C2 switches have extensive VLAN support, with 4,096 VLAN IDs supported and up to 1,024 VLANs active simultaneously in a single stack. Receive port identification may be used to assign a user to a specific VLAN. All switches support IEEE 802.1Q VLANs, port-based VLANs, protocol-based VLANs and tagged-based VLANs with full support for the GARP and GVRP protocols.

## Full Layer 3 Routing

All members of the SecureStack C2 switch family support static routing in the base software, along with support for the following protocols:

- Routing Information Protocol (RIP v1/v2)
- Internet Control Message Protocol (ICMP)

- Address Resolution Protocol (ARP) & ARP Redirect
- Dynamic Host Configuration Protocol (DHCP) Relay
- Bootstrap Protocol (BOOTP) Relay

With the optional Enhanced Routing License (one license per stack of SecureStack C2s), any SecureStack C2 switch can support the following additional protocols:

- Open Shortest Path First (OSPF)
- Virtual Router Redundancy Protocol (VRRP)
- Distance Vector Multicast Routing Protocol (DVMRP)
- Protocol Independent Multicast—Sparse Mode (PIM-SM) (future)

A total of 512 IPv4 routes can be supported in each switch. Recognizing that interoperability with IPv6 networks is mandatory for any new enterprise switch, all SecureStack C2 switches have the ability to identify, prioritize, classify, and redirect IPv6 traffic to an IPv6 router.

## Extensive Security

Security is vital to all networks today and with SecureStack C2 switches the network is protected at the first point of entry (user access). Authentication and security of end user ports can be managed at the individual port or individual user granularity level. All SecureStack C2 switches support User Access Authentication via IEEE 802.1x, access control lists, VLANs, RADIUS, MAC and Web-based (PWA) authentication in the basic firmware. The SecureStack C2 also supports per-port multi-user authentication with its implementation of PC + Phone (user and IP phone). With PC + Phone, the C2 can support MAC authentication on an IP phone along with simultaneous user authentication via 802.1x, MAC or Web-based (PWA), per port.

## Secure Networks Support

Traditional perimeter security is not sufficient and scalable enough to defend against today's sophisticated threats. Secure Networks is Enterasys' unique approach to enterprise networking that integrates advanced security and management features to centralize and automate granular control of the entire network infrastructure. All SecureStack C2 switches can be full members of a Secure Networks solution. The basic software has full support for static or port-based policies, and dynamic policies specific to a user. Per-port authentication is based on IEEE 802.1x, MAC address, or Web-based (PWA). The C2 also supports a mechanism that allows multiple users to be authenticated over a single port. These features enable network managers to set Acceptable Use Policies, Secure Application Provisioning, Secure Guest Access, Dynamic Intrusion Response, and Trusted End System.

## Robust Switch and Stack Management

All SecureStack C2 switches are fully manageable using an industry-standard command line interface, embedded web interface, Telnet with SSH, and SNMP management applications such as NetSight. Every SecureStack C2 switch supports four groups of RMON (History, Statistics, Alarms, Events) and SNMP v1/2 and v3. Multiple configuration files are supported per switch and all configuration files can be edited with any ASCII editor and can be uploaded and downloaded from a switch. A SecureStack C2 stack can be managed as a single network entity and only a single IP address is required to manage

the complete stack. There is no need to download software images to individual stack units, only one software upgrade needs to be performed per stack. The image will be distributed to the individual stack members automatically. Port-mirroring is supported on individual switches as well as stack-wide, enabling network managers to easily monitor and troubleshoot any port in the stack.

## Reliability and Availability

The SecureStack C2 offers a variety of standards-based features to ensure network availability. These features include 802.1d Spanning Tree, 802.1w Rapid Spanning Tree, and 802.3ad Link Aggregation. All of these standards allow for redundant network connections, automatic failover and recovery capabilities. The SecureStack C2 switches support additional reliability features such as Distributed Link Aggregation Groups (six groups of eight ports)—a capability that supports link aggregation across multiple stack units thereby ensuring that a failure in a single unit does not disconnect the stack from the uplink to the core switch.

Redundant stack management is supported where there is a primary and a secondary manager for managing the stack entity. All SecureStack C2 switches support Closed Loop Stacking, which enables the stack to continue working even if an individual switch member or cable connection fails. Power redundancy is available as an option for both the Power-over-Ethernet and standard Ethernet SecureStack C2 switches. The redundant power options allow a switch to operate from its own internal AC power supply or, if there is a failure, seamlessly failover to the external redundant power system.

## Power-over-Ethernet (PoE IEEE 802.3af) Support

Two switch models in the SecureStack C2 family provide a centralized IEEE 802.3af-compliant power source for VoIP phones, wireless access points (e.g., RoamAbout AP4102), and remote security scanner and cameras, eliminating the need for individual power sources for these devices. Both switches provide 48 volts of power over the normally used pairs of each Category 5 Ethernet cable with a total of 360 watts of power per switch. If all ports require Power-over-Ethernet, then the maximum amount of power required by a Class 2 device (7.5 watts) can be delivered to all ports. Any individual port can provide up to the maximum 15.4 watts specified in the IEEE standard.

The network manager has the ability to prioritize which ports receive power if the power demand exceeds the switch total of 360 watts. Special power-shedding support is included in both switches to enforce the network manager-specified priorities if the power demand exceeds the maximum wattage. Additionally, the SecureStack C2 PoE switches support a device-detection feature that enables them to work with powered as well as non-powered end devices. This feature prevents any damage from occurring when a port on either SecureStack C2 PoE switch is connected to any compliant RJ45 device that is already powered by its own power source. This feature also allows any mixture of Power-over-Ethernet devices and standard Ethernet devices to be connected to a single switch. These SecureStack C2 PoE switches significantly simplify the installation and capital costs of APs, VoIP phones and security devices by allowing them to be installed in out-of-the-way locations that are without AC power thereby enabling maximum coverage.

## 10-Gigabit Ethernet Support

One SecureStack C2 switch supports up to two full-line-rate, IEEE 802.3ae-compliant, 10-Gigabit Ethernet uplinks for both switching and routing. The 10-Gigabit Ethernet connectivity is accomplished via 10-Gigabit Small Form-factor Pluggable modules more commonly known as XFPs. The XFP modules occupy one-fifth the space and use one-half the power of other 10-Gigabit Ethernet solutions. The XFPs are hot-pluggable so that neither the switch nor the XFPs can be damaged by the unexpected insertion or removal of the XFP. XFPs can support distances up to 300 meters over multimode fiber and 10 KM and 40 KM over single-mode fiber.

The modular flexibility of the XFP interface will allow this SecureStack C2 switch to support 10-Gigabit copper solutions as they become standardized and commercially available. The line-rate speed of these 10-Gigabit uplinks gives a network manager the option to replace and increase the performance of a Distributed 1 Gigabit Link Aggregation Group, an especially important capability when additional fiber runs are in short demand. The SecureStack C2 triple-speed 10-Gigabit switch also supports Link Aggregation Groups, allowing a single switch to support 20 gigabits of uplink bandwidth.

## Outstanding Configuration Flexibility

With the SecureStack C2 switch family, mixing and matching various types of switches is a snap. A small stack can be started with dual 10/100 switches with redundant gigabit ethernet uplinks to the core. If Power-over-Ethernet is needed for remote access points or a trial test of VoIP phones, a 10/100 PoE switch can simply be added to the stack. As higher desktop speeds are required, 10/100/1000 switches can be added. As the stack grows, the demands on the uplinks to the core will increase. Distributed Link Aggregation can be used to increase bandwidth from a single gigabit up to eight gigabit. When more uplink bandwidth is required, a dual 10 Gb 10/100/1000 switch can simply be added to the stack. All of these various types of switches can be managed as a single entity with a single IP address and all of the switches in the stack run a common software image so there are no incompatibility issues between the switches. The simple flexibility of the SecureStack C2 stacking makes it an elegant solution.

## The SecureStack C2 Switch Family

### C2G124-24

This SecureStack C2 switch features 24 ports of non-blocking 10/100/1000 connectivity, four uplink ports supporting SFP (Small Form-factor Pluggable) Mini-GBICs and two integrated stacking ports. Ports 21 through 24 on this model have the flexibility to be mapped as either 10/100/1000 ports or as optical Gigabit Ethernet ports with the installation of a fiber transceiver in the appropriate SFP socket.

### C2G124-48

This SecureStack C2 switch features 48 ports of non-blocking 10/100/1000 connectivity, four uplink ports supporting SFP (Small Form-factor Pluggable) Mini-GBICs and two integrated stacking ports. Ports 45 through 48 have the flexibility to be mapped as either 10/100/1000 ports or as optical Gigabit Ethernet ports with the installation of a fiber transceiver in the appropriate SFP socket.

### **C2G124-48P**

This SecureStack C2 switch features 48 ports of non-blocking 10/100/1000 with Power-over-Ethernet capability, four uplink ports supporting SFP (Small Form-factor Pluggable) Mini-GBICs and two integrated stacking ports. Ports 45 through 48 have the flexibility to be mapped as either 10/100/1000 ports or as optical Gigabit Ethernet ports with the installation of a fiber transceiver in the appropriate SFP socket.

### **C2K122-24**

This SecureStack C2 switch features 24 ports of non-blocking 10/100/1000 connectivity, two uplink ports supporting XFP (10 Gigabit Small Form-factor Pluggable) modular interfaces, and two integrated stacking ports.

### **C2H124-48**

This SecureStack C2 switch features 48 ports of non-blocking 10/100Base-TX connectivity, four uplink ports supporting SFP (Small Form-factor Pluggable) Mini-GBICs, and two integrated stacking ports. The SFP ports support various optical Gigabit Ethernet solutions with the installation of the appropriate fiber transceiver and increase the total number of ports to 52.

### **C2H124-48P**

This SecureStack C2 switch features 48 ports of non-blocking 10/100Base-TX with Power-over-Ethernet capability, four uplink ports supporting SFP (Small Formfactor Pluggable) Mini-GBICs, and two integrated stacking ports. The SFP ports support various optical Gigabit Ethernet solutions with the installation of the appropriate fiber transceiver and increase the total number of ports to 52.

### **C2G134-24P**

This SecureStack C2 switch features 24 ports of non-blocking 10/100/1000 with Power-over-Ethernet capability via four RJ21 connectors, four uplink ports supporting SFP (Small Form-factor Pluggable) Mini-GBICs, and two integrated stacking ports. Ports 21 through 24 have the flexibility to be mapped as either 10/100/1000 POE ports or as optical Gigabit Ethernet ports with the installation of a fiber transceiver in the appropriate SFP socket.

### **C2G170-24**

This SecureStack C2 switch features 24 ports of non-blocking SFP (Small Formfactor (Pluggable) Mini-GBICs connectivity and two integrated stacking ports. The switch excels as a gigabit aggregator of edge switches or as an optical edge switch.

### **C2RPS-PSM**

This SecureStack 150 watt DC power supply can be used as redundant power for any of the SecureStack C2 non-Power-over-Ethernet switches (C2G124-24, C2G124-48, C2K122-24 and C2H124-48). The 150 watt power supply can be mounted in a SecureStack RPS chassis (C2RPS-SYS). A single power supply can power one switch if that switch loses AC power.

### **C2RPS-SYS**

This SecureStack RPS bundle includes a chassis that supports up to eight individual 150 watt redundant power supplies (C2RPS-PSM). The bundle includes the basic chassis, which can be rack mounted, and one 150-watt redundant power supply.

### **C2RPS-POE**

This SecureStack 500 watt DC power unit can be used as redundant power for any of the SecureStack C2 Power-over-Ethernet switches (C2G124-48P or C2H124-48P). Since the SecureStack C2 PoE switches provide up to 360 watts of PoE power, a much larger redundant power supply is required. This RPS is a rack-mountable unit and does not require any additional chassis.

### **C2RPS-CHAS8**

This SecureStack RPS power chassis supports up to eight individual 150 watt redundant power supplies (C2RPS-PSM). RPS units are mounted vertically in the chassis.

### **C2RPS-CHAS2**

This SecureStack RPS power chassis supports up to two individual 150 watt redundant power supplies (C2RPS-PSM). RPS units are mounted horizontally in the chassis.

## Specifications Common to All Models

### Technical Specifications

#### Address Table Size

16,000

#### Throughput Capacity (wire-speed)

13.1 Mpps on C2Hxxx models  
35.7 Mpps on C2Gxxx 24-port models  
71.4 Mpps on C2Gxxx 48-port models  
65.5 Mpps on C2Kxxx models

#### Aggregate Throughput Capacity

160.0 Gbps maximum per switch  
1,280.0 Gbps maximum per stack

#### Switching Capacity

17.6 Gbps on C2Hxxx models  
48.0 Gbps on C2Gxxx 24-port models  
96.0 Gbps on C2Gxxx 48-port models  
88.0 Gbps on C2Kxxx models

#### Stacking Capacity

80.0 Gbps per switch dedicated to stacking  
640.0 Gbps aggregate dedicated to stacking

#### VLANs

4,096 VLAN IDs  
1,024 VLAN entries per stack

#### Priority Queues

8 per port

### Embedded Services

#### Multilayer Packet Processing

Layer 2/3/4 classification  
IP TOS Rewrite  
Ingress Rate Limiting

#### Switching Services

IEEE 802.1D (MAC Bridges)

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- IEEE 802.1t (802.1D Maintenance)
- IEEE 802.3ad (Link Aggregation)
- IEEE 802.1w (Rapid Reconvergence)
- IEEE 802.3x (Flow Control)
- IGMP Snooping v1, 2
- Jumbo Frame support (9,216 bytes)

#### **VLAN Support**

- IEEE 802.1Q VLAN
- Tagged-based VLAN
- Port-based VLAN
- Protocol-based VLAN
- GVRP protocol
- GARP

#### **Quality of Service**

- Multiple User RFC3580 Authentication per gigabit port
- IP DSCP
- IP precedence
- Protocol
- Source IP
- Destination IP
- Source MAC
- Destination MAC

#### **IP Routing & Multicast**

- Static Routes
- RIP v1 and v2
- ICMP
- OSPF2
- ARP & ARP Redirect
- PIM-SM (future)
- DVMRP
- VRRP
- DCHP/BOOTP Relay

#### **Security**

- IP Helper Address - Forward up to 6 manual settings
- IEEE 802.1x Port Authentication
- RADIUS Client
- Password protection (encryption)
- Secure Networks enabled
- Secured Shell (SSHv2)
- Secured Socket Layer (SSL)
- Syslog

#### **RFC and MIB Support**

- RFC 2338—IP Redundancy—VRRP
- RFC 1058—RIP v1
- RFC 2453—RIP v2
- RFC 1583, RFC 2328—OSPF2
- RFC 826—ARP and ARP Redirect
- RFC 951, RFC 1542—DHCP/BOOTP relay
- RFC 2131, RFC 3046—DHCP client/relay
- RFC 2819—RMON-MIB
- RFC 1213—RFC1213-MIB/MIB II
- RFC 1493—BRIDGE-MIB
- RFC 1643—Ethernet-like MIB
- RFC 2233—IF-MIB
- RFC 2674—P-BRIDGE-MIB
- RFC 2674—QBRIDGE-MIB VLAN Bridge MIB
- IEEE 802.1X MIB - Port Access
- RFC 2620—RADIUS Accounting Client MIB
- RFC 2618—RADIUS Authentication Client MIB
- RFC 1724—RIP Version 2 MIB Extension
- RFC 1850—OSPF Version 2 MIB
- RFC 2787—VRRP-MIB
- RFC 3289—DIFFSERV-MIB
- RFC 2933—IGMP MIB
- RFC2934—PIM MIB for IPv4 (future)
- Enterasys Entity MIB
- Enterasys Policy MIB

#### **Additional IEEE Standards**

- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3ab Gigabit Ethernet, copper
- IEEE 802.1x Network Access Control
- IEEE 802.3z Gigabit Ethernet
- IEEE 802.1s Multiple Spanning Trees

#### **Network Management**

- NetSight Console
- NetSight Inventory Manager
- NetSight Policy Manager
- Web Interface
- Command Line Interface
- Multi configuration File Support
- Editable Configuration File
- Configuration Upload/Download
- FTP/TFTP client
- RMON Stats, History, Alarms, Events
- Maximum of five Telnet sessions

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## Physical Specifications

### Safety

UL 60950  
CSA 60950  
EN 60950  
EN 60825  
IEC 60950

### Electromagnetic Compatibility

47 CFR Parts 2 and 15  
CSA C108.8  
EN 55022  
EN 55024  
EN 61000-3-2  
EN 61000-3-3  
AS/NZS CISPR 22  
VCCI V-3

## Environmental Specifications

### Power Requirements

Nominal Input Voltages: 100V to 240V  
Input Frequency: 47Hz to 63Hz

### Temperature

IEC 68-2-14  
Standard Operating: 0° C to 40° C (32° F to 104° F)  
Non-operating: -40° C to 70° C (40° F to 158° F)

### Humidity

10% to 90% (Non-condensing)

### Vibration

IEC 68-2-36, IEC 68-2-6

### Shock

IEC 68-2-29

### Drop

IEC 68-2-32

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## Specifications for Each Switch

### C2G124-24 Specifications

#### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

#### Weight

5.05 kg (11.12 lbs)

#### Physical Ports

24 10/100/1000 auto-sensing, auto-negotiating  
MDI/MDI-X RJ45 ports  
4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

#### Heat Dissipation

294 BTU/HR

#### MTBF (predicted)

195,256 hours

### C2G124-48 Specifications

#### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

#### Weight

5.71 kg (12.58 lbs)

#### Physical Ports

48 10/100/1000 auto-sensing, auto-negotiating  
MDI/MDI-X RJ45 ports  
4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

#### Heat Dissipation

441 BTU/HR

#### MTBF (predicted)

113,646 hours

### C2G124-48P Specifications

#### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

#### Weight

6.94 kg (15.29 lbs)

#### Physical Ports

48 10/100/1000 1000 auto-sensing, auto-negotiating

#### MDI/MDI-X RJ45 ports

4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

#### Heat Dissipation

1,670 BTU/HR

#### MTBF (predicted)

102,777 hours

#### Power-over-Ethernet

IEEE 802.3af compliant  
Total PoE power of 360 W  
Average of 7.5 watts per port (Class 2)  
Maximum of 15.4 watts per port  
Per-port enable/disable  
Per-port priority safety  
Per-port overload and short circuit protection  
System power monitor

## C2K122-24 Specifications

### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

### Weight

5.40 kg (11.89 lbs)

### Physical Ports

24 10/100/1000 auto-sensing, auto-negotiating  
MDI/MDI-X RJ45 ports  
2 XFP 10 Gb ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

### Heat Dissipation

320 BTU/HR

### MTBF (predicted)

156,242 hours  
IEEE Standards  
IEEE 802.3ae 10-Gigabit Ethernet

## C2H124-48 Specifications

### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

### Weight

5.27 kg (11.61 lbs)

### Physical Ports

48 10/100 auto-sensing, auto-negotiating  
MDI/MDI-X RJ45 ports  
4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

### Heat Dissipation

205 BTU/HR

### MTBF (predicted)

138,741 hours

## C2H124-48P Specifications

### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

### Weight

6.50 kg (14.32 lbs)

### Physical Ports

48 10/100 PoE auto-sensing, auto-negotiating  
MDI/MDI-X RJ45 ports  
4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

### Heat Dissipation

1,451 BTU/HR

### MTBF (predicted)

115,872 hours

### Power-over-Ethernet

IEEE 802.3af compliant  
Total PoE power of 360 W  
Average of 7.5 watts per port (Class 2)  
Per-port enable/disable  
Per-port priority safety  
Per-port overload and short circuit protection  
System power monitor

## C2G170-24 Specifications

### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

### Weight

5.32 kg (11.70 lbs)

### Physical Ports

24 modular SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

### Heat Dissipation

177 BTU/HR

### MTBF (predicted)

156,424 hours

## C2G134-24P Specifications

### Dimensions

44.1 cm (17.36") x 4.4 cm (1.73") x 36.85 cm (14.51")

### Weight

7.78 kg (17.12 lbs)

### Physical Ports

4 RJ21 connectors supporting 6 10/100/1000 PoE ports per connector  
4 SFP Mini-GBIC ports  
2 stacking ports  
1 DB9 console port  
1 RPS port

### Heat Dissipation

511 BTU/HR

### MTBF (predicted)

145,462 hours

### Power-over-Ethernet

IEEE 802.3af compliant  
Total PoE power of 360 W  
Average of 7.5 watts per port (Class 2)  
Per-port enable/disable  
Per-port priority safety  
Per-port overload and short circuit protection  
System power monitor

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## C2RPS-CHAS2 Specifications

### Dimensions

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 cars

## C2RSPS-CHAS8 Specifications

### Dimensions

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

### Weight

5.27 kg (11.6 lbs)

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## Ordering Information

### SecureStack C2 Switches

#### C2G124-48

SecureStack C2 with 48 10/100/1000 ports via RJ45 and 4 Mini-GBIC combo ports

#### C2G124-24

SecureStack C2 with 24 10/100/1000 ports via RJ45 and 4 Mini-GBIC combo ports

#### C2G124-48P

SecureStack C2 with 48 10/100/1000 Power-over-Ethernet ports via RJ45 and 4 Mini-GBIC combo ports

#### C2K122-24

SecureStack C2 with 24 10/100/1000 ports via RJ45 and two 10-Gigabit XFP ports

#### C2H124-48

SecureStack C2 with 48 10/100 ports via RJ45 and 4 Mini-GBIC ports

#### C2H124-48P

SecureStack C2 with 48 10/100 Power-over-Ethernet ports via RJ45 and 4 Mini-GBIC ports

#### C2G134-24P

SecureStack C2 with 24 10/100/1000 Power-over-Ethernet ports via 4 RJ21 and 4 Mini-GBIC combo ports

#### C2G170-24

SecureStack C2 with 24 modular Gigabit (SFP) ports

Note: Stacking cables must be ordered in order to stack the SecureStack C2.

### MGBIC Modules

#### MGBIC-LC01

Mini-GBIC with 1000Base-SX via LC connector

#### MGBIC-LC03

Mini-GBIC with 1000Base-LX/LH (2KM Long Haul) MMF via LC connector

#### MGBIC-08

Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC

connector

#### MGBIC-LC09

Mini-GBIC with 1000Base-LX via LC connector

#### MGBIC-02

Mini-GBIC with 1000Base-T via RJ45 connector

#### MGBIC-MT01

Mini-GBIC with 1000Base-SX via MTRJ connector

### XFP Modules

#### 10GBASE-SR-XFP

XFP with 10-Gigabit Ethernet Short Reach (300m over MMF) via LC connector

#### 10GBASE-LR-XFP

XFP with 10-Gigabit Ethernet Long Reach (10KM over SMF) via LC connector

#### 10GBASE-ER-XFP

XFP with 10-Gigabit Ethernet Extended Reach (40KM over SMF) via LC connector

### Software License

#### C2L3-LIC

SecureStack C2 Enhanced Layer 3 Routing License (OSPF, PIM, DVMRP, VRRP)

### Accessories

#### C2CAB-SHORT

SecureStack stacking cable for connecting adjacent switches

#### C2CAB-LONG

SecureStack stacking cable for connecting the top switch to the bottom switch

#### C2RPS-SYS

SecureStack RPS chassis plus one C2RPS-PSM (chassis supports up to 8 C2RPS-PSMs)



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### **C2RPS-CHAS8**

SecureStack RPS chassis (chassis supports up to 8 C2RPS-PSMs)

### **C2RPS-PSM**

SecureStack 150-watt redundant non-PoE power supply with one DC cable

### **CSRPS-POE**

SecureStack 500-watt redundant PoE power supply with one DC cable

### **C2RPS-CHAS2**

SecureStack RPS chassis (chassis supports up to 2 C2RPS-PSMs)

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## **Service and Support**

Enterasys Networks provides comprehensive service offerings that range from Professional Services to design and implement 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.

## **Warranty**

All SecureStack Switches are warranted to be free from defects for the life of the product. Enterasys offers advance replacement with Next Business Day Arrival Shipment options. The SecureStack Warranty continues until 5 years after the date of product discontinuation and includes power supply, fans, and stacking cables. The Software and Firmware Warranty covers patches, and bug fixes, and feature upgrades with 8 x 5 telephone 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](http://enterasys.com)



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