

**Modular Force10 Operating System (FTOS) software delivers inherent stability**

**Inline diagnostics and traffic visibility tools increase control of network**

**Line-rate, non-blocking performance regardless of traffic conditions**

### C-Series C300 Resilient Switch

The Force10 Networks C300 is a resilient chassis-based switch that delivers reliability, network control and scalability. The C300 is designed to support mission critical applications with very low-latency across converged networks. Comprehensive management capabilities, make the C300 a cost-effective and flexible deployment option.

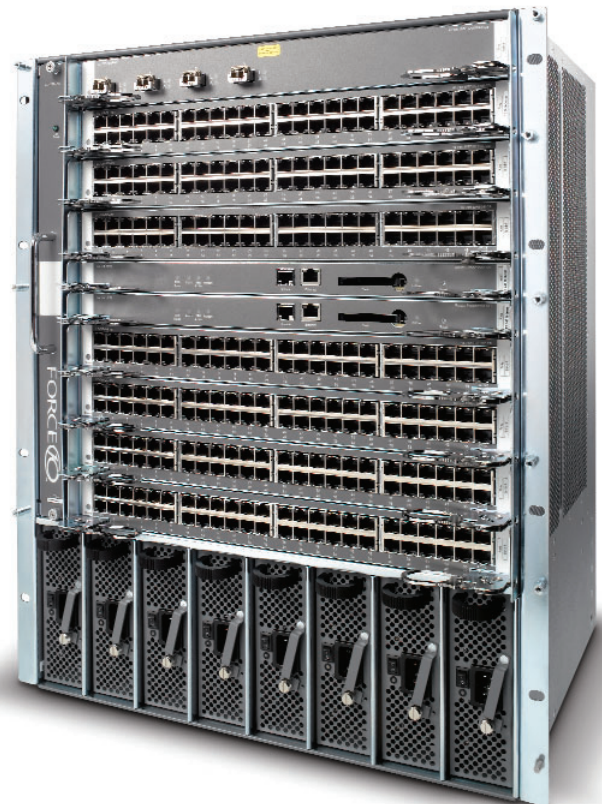
### Key Applications

- Low cost 100/1000 Mbps server aggregation for small- to medium-sized data centers (100s to 1,000s of servers)
- Cost-effective LAN core switch for small- and medium-campuses (100s to 1,000s of PCs)
- High density GbE aggregation for distribution into a multiple Gbps or 10 GbE backbone
- Cost-effective PoE-enabled 10/100/1000Base-T wiring closet aggregation

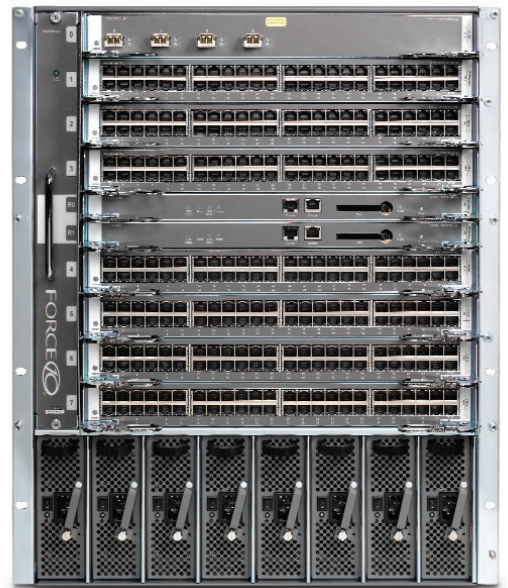
### Key Features

The Force10 C300 is designed to provide inherent reliability, network control, and scalability for high performance Ethernet environments.

- Up to 384 line-rate 10/100/1000Base-T ports with full 15.4W Class 3 PoE support in a 14-RU chassis
- Up to 32 line-rate 10 GbE ports with XFP pluggable optics
- Intelligent power management with full 15.4W PoE (IEEE 802.3af) support across all ports
- 5 microsecond switching latency under full load for 64 byte frames
- Switch fabric capacity of 1.536 Tbps and 571 Mpps L2 or L3 packet forwarding capacity
- High availability architecture
  - 1+1 Route Processor Module (RPM) design
  - Continuous runtime data plane monitoring and advanced in-service CLI diagnostic functions
  - Power supply redundancy with load sharing power bus enabling uninterrupted VoIP calls during a power supply failure



# Specifications: C-Series C300 Resilient Switch



## Ordering Information

ORDER NUMBER	DESCRIPTION
CH-C300	8-slot C300 Chassis with Backplane
CC-C300-FAN	C300 Fan Subsystem
CC-C-1200W-AC	C300 1200W Power Supply Module
LC-CB-RPM	C300 Switch Fabric and Route Processor Module (Series CB)
LC-CB-10GE-4P	C300 4-port 10 Gigabit Ethernet line-card, XFP optics required (series CB)
LC-CB-GE-48T	C300 48-port 10/100/1000 Base-T line-card with RJ45 interface (series CB)
LC-CB-GE-48V	C300 48-port 10/100/1000 Base-T line-card with RJ45 interface and inline-power (series CB)

## Physical

8 Line card slots  
2 Switch fabric and route processor module slots  
8 Power supply module slots  
1 Fan tray slot

Size: 14 RU, 22.5" h x 17.5" w x 14" d  
(57.15 cm x 44.45 cm x 34.56 cm)

Weight with factory-installed components: 55 lbs (24.95 kg)  
Weight fully loaded: 152.27 lbs (69.07 kg)

AC Power

Nominal input voltage: 100 - 240 VAC 50/60 HZ  
Maximum thermal output:  
9,600W (32,755 BTU/Hour) 100/120 VAC  
9,600W (32,755 BTU/Hour) 200/220 VAC

Maximum input current:  
14A 100 VAC per module  
12A 120 VAC per module  
7A 200 VAC per module  
6A 240 VAC per module

Maximum system power input:  
9.6KVA 100/120 VAC  
9.6KVA 200/240 VAC

19" front rack mountable

Maximum Operating Specifications:  
Temperature: 32° to 104°F (0° to 40°C)  
Altitude: no performance degradation to 10,000 feet  
(3,048 meters)  
Relative humidity: 5 to 85 percent, noncondensing  
Shock: Bellcore GR-63  
Vibration: Bellcore GR-63

Maximum Non-operating Specifications:  
Temperature: -40° to 158°F (-40° to 70°C)  
Maximum altitude: 15,000 feet (4,572 meters)  
Relative humidity: 5 to 95 percent, noncondensing  
Vibration: Bellcore GR-63

## Redundancy

1+1 redundant Switch Fabric and Route Processor Modules (RPM)  
2+1 redundant system power supply modules  
Online insertion and removal of all components  
Environmental self-monitoring

## IEEE Compliance

802.3	10Base-T
802.3u	Fast Ethernet (100Base-TX)
802.3ab	1000Base-T
802.3z	Gigabit Ethernet
802.3ae	10 Gigabit Ethernet
802.3ak	10 Gigabit Ethernet CX4
802.3af	Power over Ethernet
802.1p	L2 Prioritization
802.1Q	VLAN Tagging, Double VLAN Tagging
802.1ac	Frame Extensions for VLAN Tagging
802.1s	Multiple Spanning Tree Protocol
802.1w	Rapid Spanning Tree Protocol
802.1X	Port Based Network Access Control
802.1AB	Link Layer Discovery Protocol
802.3ad	Link Aggregation with LACP
802.1D	Bridging
802.3x	Flow Control

## RFC Compliance

### OSPF

1587	NSSA option
2154	OSPF MD5
2328	OSPF v2
2370	Opaque LSA option

## General Routing and Switching Protocols

768	UDP
783	TFTP
791	IP
792	ICMP
793	TCP
826	ARP
854	Telnet
959	FTP
1027	Proxy ARP
1305	NTP v3
1519	CIDR
1542	BootP (relay)
1591	DNS client
1812	IP v4 routers
2131	BootP/DHCP helper
2338	VRRP

## IP Multicast

ietf-draft	IGMP Snooping
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## Security

1492	TACACS+
2865	RADIUS
3128	Protection Against a Variant of the Tiny Fragment Attack Secure Copy (SCP) SSH v1/v2

## SNMP/MIBs

1157	SNMP v1
1213	SNMP v2 (MIB-II)
1215	Traps for use with SNMP
1493	Bridges
1573	Interfaces group MIB
1757	RMON
1907	MIB for SNMPv2
2011	SNMPv2 IP MIB
2012	SNMPv2 TCP MIB
2013	SNMPv2 UDP MIB
2233	Interfaces MIB
2574	SNMPv3 USM

2575	SNMPv3 VACM
2576	Coexistence between SNMPv1/v2/v3
2665	Ethernet-like interfaces
2787	VRRP MIB

Fault management (alarms & status reporting)  
Force10 Link aggregation MIB  
Force10 chassis MIB  
Force10 SNMP copy MIB  
Force10 monitoring MIB

## Compliances

### Safety

CUS 60950, 3rd edition (US NRTL through CSA)  
CSA 60950, 3rd edition  
CE Mark (EN 60950)  
CB Report, all country deviations  
EN 60825-1 Safety of Laser Products-Part 1: Equipment  
Classification Requirements and User's Guide  
EN 60825-2 Safety of Laser Products-Part 2:  
Safety of Optical Fibre Communications Systems  
21 CFR 1040.10 and 1040.11 FDA laser device requirements

### EMC

USA: FCC Part 15, Class A  
Canada: ICES-003, Class A  
Europe: EN55022 1998, Class A  
Japan: VCCI Class A

EN 55024 1998

### RoHS Compliance

All components of C300 are EU RoHS compliant with the exception of lead, which is exempt from the Directive for network equipment



**Force10 Networks, Inc.**  
350 Holger Way  
San Jose, CA 95134 USA  
[www.force10networks.com](http://www.force10networks.com)

408-571-3500 PHONE  
408-571-3550 FACSIMILE

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