



IP Telephony

Contact Centers

Mobility

Services

PRODUCT  
BRIEF

# The Avaya C360 Converged Stackable Switches

## A Compact, Stackable Converged Network Solution

The Avaya C360 Converged Stackable switches provide high-performance and IP telephony connectivity in a very compact design. These switches are designed to support voice, video, and data applications on a Local area network (LAN) and are ideal for use in wire closets where their stackable and compact architecture let you deploy the right number of ports where-ever needed, and to economically deliver power to endpoints for a more manageable and survivable solution.

### Enabling IP Telephony

The C360 converged stackable switches integrate with the Avaya G700 Media Gateways to create the Avaya Integrated Stackable Telephony Solution providing a compact, yet powerful converged network connection to the desktop.

Avaya delivers a fully integrated IP telephony solution with the award winning Avaya Communication Manager running on an Avaya S8300 Media Server where the G700 Media Gateway stacks with the C360 switches through the Octaplane® Stack fabric. You can also use the wide range of pluggable WAN and Network interface option of the G700 for both your voice and data networking needs. To ensure high performance in an IP telephony environment, the C360 supports 802.1p and DiffServ providing granular control over levels of service through four hardware queues to allow granular service level control.

### Highly Available Solution

The C360 switches build upon the highly available SAFER Technology (Switch Architecture for Extreme Redundancy) which helps ensure the uninterrupted flow of data that is essential for your business. The Avaya Octaplane Stack fabric delivers a highly scalable, easy to manage system, which can be managed using a single IP address. The Octaplane design features multiple back-up stack supervisors and the loop-back stack redundancy allows continuous connectivity if one of the switches in the stack were to fail. The switches support Rapid Spanning Tree protocol (RSTP) defined in 802.1w for fast network recovery when a failure occurs. All the units come standard with 2 GBIC ports for connecting to servers or into your network core.

### Standards Based Power Ethernet (802.3af)

The C360 switches are available in Power over Ethernet (PoE) models with are ideal in situations where you need to connect to devices requiring power, such as wireless access points, security devices, and IP telephones. Power management is simplified with the C360 switches because they automatically detect and deliver power to any 802.3af compliant device. By using this standards based PoE solution, you eliminate the need to add mid-span units, local power units, and have power cords running to endpoints. This allows you to provide power for endpoints to enable continuous operations, end-to-end in the event that building power is lost.



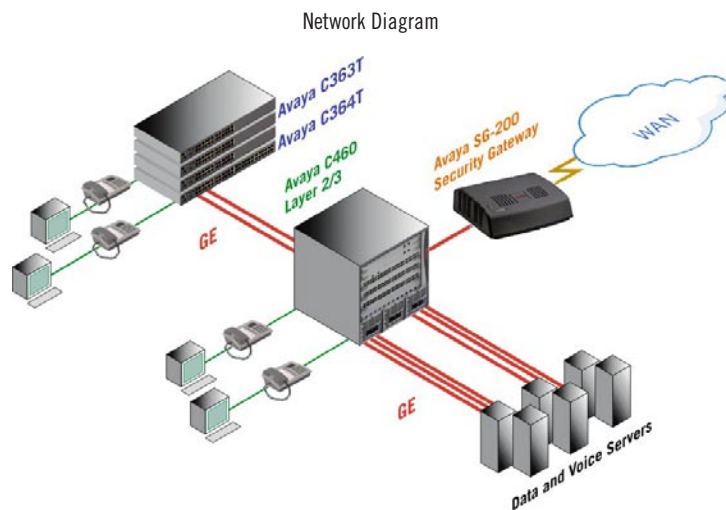
C363T-PWR



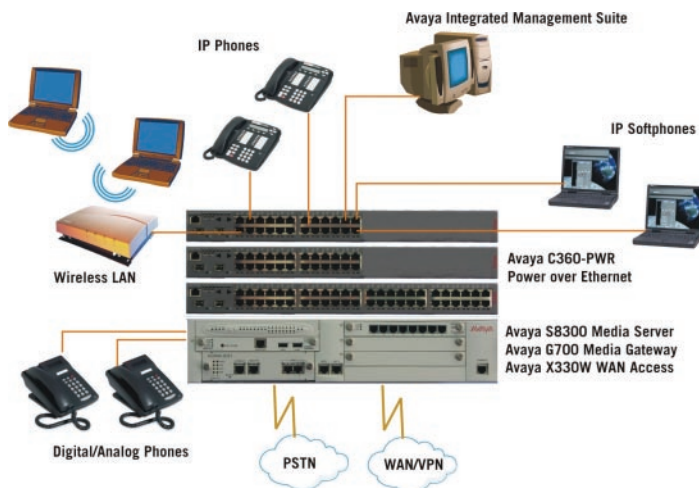
C364T-PWR

### Add Routing Where and When its Needed

The C360 multi-layer architecture provides you the flexibility to use the same hardware platform and add routing only where needed. And as your needs change, you can add routing capability to any of the C360 switches with a simple software upgrade. With the upgrade, the C360 becomes a high-performance RIP/OSPF router supporting Virtual Router Redundancy (VRRP), Equal cost multi path (ECMP) and Policy enforcement.



Avaya Integrated Stackable Telephony (ISTS)



### ORDERING GUIDE

Item	Description	Material Code
C363T-PWR	24 10/100 PoE (power) + 2 mini-GBIC (SFP) ports	700305881
C364T-PWR	48 10/100 PoE (power) + 2 mini-GBIC (SFP) ports	700305873
C363T	24 10/100 + 2 mini-GBIC (SFP) ports	700319932
C364T	48 10/100 + 2 mini-GBIC (SFP) ports	700319940
X360-STK	C360 Stacking module	700305899
L360L3-License	L3 (Routing) license for C360 products	700305907
L360SMON-License	SMON license for C360 stack	700305915
GBIC LX	GBIC, SFP LX Transceiver	108873258
GBIC SX	GBIC, SFP SX Transceiver	108873241
GBIC ELX	GBIC, SFP ELX Transceiver	700260185
GBIC Copper	GBIC, SFP Copper	700283872
X330RC	Redundant Cable for Stacking	108563453
X330LC	Two meters long cable for Octaplane stacking	108592437
X330SC	30 cm (12 inches) Short cable for Octaplane stacking	108592445
X330L-LC	8m long cable for connecting switches in a stack	700177330
X330L-RC	8m redundant cable for a stack	700177348

## Standards Supported

### IEEE

- 801.2AB
- 802.1D
- 802.1p
- 802.1Q
- 802.1w
- 802.3af
- 802.3x
- 802.1x
- 802.3
- 802.3ab
- 802.3z
- 802.3u

### IETF

- RFC 1155 Structure and identification of mgt information for TCP/IP-based internets
- RFC 1157 SNMPv1
- RFC 1213 MIB-II
- RFC 1314 Bridge MIBs for STP, and for CAM contents
- RFC 1332 PPP Internet Protocol Control Protocol (IPCP)
- RFC 1334 PPP Authentication Protocols (PAP & CHAP)
- RFC 1493 Bridge MIB for Spanning Tree
- RFC 1661 PPP
- RFC 1757 RMON (groups 1,2,3, and 9)
- RFC 1769 SNMP
- RFC 2571-2576 SNMPv3
- RFC 2613 SMON support for groups- Data Source Capabilities, Port Copy, VLAN and Priority Statistics
- RFC 2674 Bridge MIB Groups - dot1dBase and dot1dStp fully implemented. Support for relevant MIB objects
- RFC 2863 Interfaces Group MIB
- RFC 2865 RADIUS
- RFC 3621 Power Ethernet MIB

### IETF Layer 3

- RFC 791 Internet Protocol
- RFC 826 Ethernet ARP
- RFC 894 Standard for the transmission of IP datagrams over Ethernet
- RFC 922 Broadcasting Internet datagrams in the presence of subnets
- RFC 950 Internet Standard Subnetting Procedure

- RFC 951 Bootstrap Protocol
- RFC 1027 Using ARP to implement transparent subnet gateways
- RFC 1058 RIP
- RFC 1112 Hosts Extensions for IP Multicasting
- RFC 1122 Requirements for Internal Hosts - Communications Layers
- RFC 1533 DHCP Options and BOOTP Vendor Extensions
- RFC 1534 Interoperation between DHCP and BOOTP
- RFC 1541 DHCP
- RFC 1542 Clarifications and Extensions for the Bootstrap Protocol Information
- RFC 1583 OSPFv2
- RFC 1723 RIPv2 Carrying Additional Information
- RFC 1724 RIPv2 MIB Extension
- RFC 1812 Requirements for IP Version 4 Routers
- RFC 1850 OSPFv2 MIB
- RFC 2096 IP Forwarding Table MIB
- RFC 2338 VRRP

## Performance/Capacities

### Physical:

Height 1U (44.45 mm, 1.75")  
Width 431 mm (17")  
Depth 365 (14.4")

### Weights:

C363T 4.9 kg (10.8 lb)  
C364T 5.0 kg (11 lb)  
C363T-PWR 5.5 kg (12.1 lb)  
C364T-PWR 6.8 kg (15 lb)

### Switching fabric:

C363T models 16.8 Gbps  
C364T models 21.6 Gbps

### L2 forwarding rate:

C363T models 12.6 Mpps  
C364T models 16.2 Mpps

### L3 forwarding rate:

C363T models 12.6 Mpps  
C364T models 12.6 Mpps

- Multicast Groups: 1K
- VLANs: L2 – 3K, L3 - 255
- MAC Address: Minimum 16K
- Forwarding table size: 4K

### Memory:

- Flash RAM – 32 Mb
- SDRAM – 64 Mb

### Connectors:

- Ethernet 10/100 Mbps ports: RJ-45
- Ethernet Fiber ports: GBIC SFP

### Environmental

Operating Temp: 0 to 40 C (32 to 104 F)  
Storage Temp: -40 to 70 C (-14 to 184 F)  
Operating Rel. Humidity 5% to 95%, non-condensing

### Safety

- UL for US – approved according to UL60950 std
- C-UL (UL for Canada) approved according to C22.2 No. 950 Std.
- CE for Europe approved according to EN 60950 Std.
- Laser components are Laser Class 1 approved: —EN-60825.IEC-825 for Europe —FDA CRF 1040 for USA

## EMC Emissions

### Approved according to:

US – FCC Part 15, Subpart B, class A  
Europe – EN55022 class A and EN61000-3-2  
Japan – VCCI-A

### Immunity

Approved according to EN55024 and EN61000-3-3

## Power Requirements

Input Voltage: 100-240 VAC, 50/60 Hz

### Power Consumption:

C363T 60W max.  
C363T-PWR 420W max.  
C364T 90W max.  
C364T-PWR 760W max.

### AC Input Current:

C363T 1.3A max  
C363T-PWR 4.2A max  
C364T 1.3A max  
C364T-PWR 7.6A max

### DC Input Current:

C363T 2 A max.  
C363T-PWR 8 A max.  
C364T 2 A max.  
C364T-PWR 15 A max

## Learn More

To learn more, speak to your Avaya Client Executive  
or Authorized BusinessPartner, or visit [avaya.com](http://avaya.com).

## About Avaya

Avaya enables businesses to achieve superior results by designing, building and managing their communications infrastructure and solutions. For over one million businesses worldwide, including more than 90 percent of the FORTUNE 500®, Avaya's embedded solutions help businesses enhance value, improve productivity and create competitive advantage by allowing people to be more productive and create more intelligent processes that satisfy customers.

For businesses large and small, Avaya is a world leader in secure, reliable IP telephony systems, communications applications and full life-cycle services. Driving the convergence of embedded voice and data communications with business applications, Avaya is distinguished by its combination of comprehensive, world-class products and services. Avaya helps customers across the globe leverage existing and new networks to achieve superior business results.

# AVAYA

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