Cisco 300 Series Switches
Cisco Small Business

Easy-to-Use Managed Switches that Provide the Ideal Combination of Features and Affordability

To stay ahead in a competitive marketplace, small businesses need to make every dollar count. That means getting the most value from your technology investments, but it also means making sure that employees have fast, reliable access to the business tools and information they need. Every minute an employee waits for an unresponsive application – and every minute your network is down – has an impact on your bottom line. The importance of maintaining a strong and dependable business network only grows as your business adds more employees, applications, and network complexity.

When your business needs advanced security and features but value is still a top consideration, you're ready for the new generation of Cisco® Small Business managed switches: the Cisco 300 Series.

Cisco 300 Series Switches

The Cisco 300 Series, part of the Cisco Small Business line of network solutions, is a portfolio of affordable managed switches that provides a reliable foundation for your business network. These switches deliver the features you need to improve the availability of your critical business applications, protect your sensitive information, and optimize your network bandwidth to deliver information and applications more effectively. Easy to set up and use, the Cisco 300 Series provides the ideal combination of affordability and capabilities for small businesses, and helps you create a more efficient, better-connected workforce.

The Cisco 300 Series is broad portfolio of fixed-configuration managed Ethernet switches. Models are available with 8 to 48 ports of Fast Ethernet and 10 to 52 ports of Gigabit Ethernet connectivity, providing optimal flexibility to create exactly the right network foundation for your business. However, unlike other small business switching solutions that provide managed network capabilities only in the costliest models, all Cisco 300 Series Switches support the advanced security management capabilities and network features you need to support business-class data, voice, security, and wireless technologies. At the same time, these switches are simple to deploy and configure, allowing you to take advantage of the managed network services your business needs.

- **Cisco Limited Lifetime Hardware Warranty:** Cisco 300 Series Switches offer a limited lifetime hardware warranty with next business day advance replacement (where available, otherwise same day ship) and a limited lifetime warranty for fans and power supplies. In addition, Cisco offers software application updates for bug fixes for the warranty term, and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: www.cisco.com/cisco/web/download/index.html.

Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

Product Specifications

Table 1 gives the product specifications for the Cisco 300 Series Switches.

Table 1. Product Specifications

Feature	Description		
Performance			
Switching capacity and forwarding rate All switches are wire-speed and non-blocking	**Model Name**	**Capacity in Millions of Packets per Second (mpps) (64-byte packets)**	**Switching Capacity in Gigabits per Second (Gbps)**
	SF300-08	1.19	1.6
	SF302-08	4.17	5.6
	SF302-08P	4.17	5.6
	SF302-08PP	4.17	5.6
	SF302-08MP	4.17	5.6
	SF302-08MPP	4.17	5.6
	SF300-24	9.52	12.8
	SF300-24P	9.52	12.8
	SF300-24PP	9.52	12.8
	SF300-24MP	9.52	12.8
	SF300-48	13.10	17.6
	SF300-48P	13.10	17.6
	SF300-48PP	13.10	17.6
	SG300-10	14.88	20.0
	SG300-10SFP	14.88	20.0
	SG300-10P	14.88	20.0
	SG300-10PP	14.88	20.0
	SG300-10MP	14.88	20.0
	SG300-10MPP	14.88	20.0
	SG300-20	29.76	40.0
	SG300-28	41.67	56.0
	SG300-28P	41.67	56.0
	SG300-28PP	41.67	56.0
	SG300-28MP	41.67	56.0
	SG300-52	77.38	104.0
	SG300-52P	77.38	104.0
	SG300-52MP	77.38	104.0
	SG300-28SFP	41.67	56.0

Feature	Description
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard 802.1d Spanning Tree support Fast convergence using 802.1w (Rapid Spanning Tree [RSTP]), enabled by default 8 instances are supported Multiple Spanning Tree instances using 802.1s (MSTP)
Port grouping	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 8 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation
VLAN	Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN Management VLAN Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks Guest VLAN Unauthenticated VLAN Dynamic VLAN assignment via Radius server along with 802.1x client authentication CPE VLAN
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS. Auto voice capabilities deliver network-wide zero touch deployment of voice endpoints and call control devices.
Multicast TV VLAN	Multicast TV VLAN allows the single multicast VLAN to be shared in the network while subscribers remain in separate VLANs (Also known as MVR)
Q-in-Q VLAN	VLANs transparently cross a service provider network while isolating traffic among customers
Generic VLAN Registration Protocol (GVRP)/Generic Attribute Registration Protocol (GARP)	Protocols for automatically propagating and configuring VLANs in a bridged domain
Unidirectional Link Detection (UDLD)	UDLD monitors physical connection to detect unidirectional links caused by incorrect wiring or cable/port faults to prevent forwarding loops and blackholing of traffic in switched networks
Dynamic Host Configuration Protocol (DHCP) Relay at Layer 2	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82
Internet Group Management Protocol (IGMP) versions 1, 2, and 3 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1K multicast groups (source-specific multicasting is also supported)
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
Head-of-line (HOL) blocking	HOL blocking prevention
Jumbo Frames	Up to 9K (9216) bytes
Layer 3	
IPv4 routing	Wirespeed routing of IPv4 packets Up to 512 static routes and up to 128 IP interfaces
Classless Inter-Domain Routing (CIDR)	Support for CIDR
Layer 3 Interface	Configuration of layer 3 interface on physical port, LAG, VLAN interface or Loopback interface
DHCP relay at Layer 3	Relay of DHCP traffic across IP domains
User Datagram Protocol (UDP) relay	Relay of broadcast information across Layer 3 domains for application discovery or relaying of BootP/DHCP packets
DHCP Server	Switch functions as an IPv4 DHCP Server serving IP addresses for multiple DHCP pools/scopes Support for DHCP options
Security	
Secure Shell (SSH) Protocol	SSH is a secure replacement for Telnet traffic. SCP also uses SSH. SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL support: Encrypts all HTTPS traffic, allowing highly secure access to the browser-based management GUI in the switch
IEEE 802.1X (Authenticator role)	802.1X: RADIUS authentication and accounting, MD5 hash; guest VLAN; unauthenticated VLAN, single/multiple host mode and single/multiple sessions Supports time-based 802.1X Dynamic VLAN assignment

Feature	Description
Web Based Authentication	Web based authentication provides network admission control through web browser to any host devices and operating systems.
STP Bridge Protocol Data Unit (BPDU) Guard	A security mechanism to protect the network from invalid configurations. A port enabled for BPDU Guard is shut down if a BPDU message is received on that port.
STP Root Guard	This prevents edge devices not in the network administrator's control from becoming Spanning Tree Protocol root nodes.
DHCP snooping	Filters out DHCP messages with unregistered IP addresses and/or from unexpected or untrusted interfaces. This prevents rogue devices from behaving as a DHCP Server.
IP Source Guard (IPSG)	When IP Source Guard is enabled at a port, the switch filters out IP packets received from the port if the source IP addresses of the packets have not been statically configured or dynamically learned from DHCP snooping. This prevents IP Address Spoofing.
Dynamic ARP Inspection (DAI)	The switch discards ARP packets from a port if there is no static or dynamic IP/MAC bindings or if there is a discrepancy between the source or destination address in the ARP packet. This prevents man-in-the-middle attacks.
IP/Mac/Port Binding (IPMB)	The features (DHCP Snooping, IP Source Guard, and Dynamic ARP Inspection) above work together to prevent DOS attacks in the network, thereby increasing network availability.
Secure Core Technology (SCT)	Ensures that the switch will receive and process management and protocol traffic no matter how much traffic is received.
Secure Sensitive Data (SSD)	A mechanism to manage sensitive data (such as passwords, keys, etc) securely on the switch, populating this data to other devices, and secure autoconfig. Access to view the sensitive data as plaintext or encrypted is provided according to the user configured access level and the access method of the user.
Layer 2 isolation Private VLAN Edge (PVE) with community VLAN	PVE (also known as protected ports) provides Layer 2 isolation between devices in the same VLAN, supports multiple uplinks.
Port security	The ability to lock Source MAC addresses to ports, and limits the number of learned MAC addresses.
RADIUS/TACACS+	Supports RADIUS and TACACS authentication. Switch functions as a client.
Storm control	Broadcast, multicast, and unknown unicast
RADIUS accounting	The RADIUS accounting functions allow data to be sent at the start and end of services, indicating the amount of resources (such as time, packets, bytes, and so on) used during the session.
DoS prevention	Denial-of-Service (DOS) attack prevention
ACLs	Support for up to 512 rules Drop or rate limit based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP)/IP precedence, TCP/UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag, Time-based ACLs supported.
Quality of Service	
Priority levels	4 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service (802.1p/CoS)
Class of service	Port based; 802.1p VLAN priority based; IPv4/v6 IP precedence/type of service (ToS)/DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS.
Rate limiting	Ingress policer; egress shaping and rate control; per VLAN, per port, and flow based.
Congestion avoidance	A TCP congestion avoidance algorithm is required to minimize and prevent global TCP loss synchronization.
Standards	
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP),IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 922, RFC 920, RFC 950, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1350, RFC 1533, RFC 1541, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2576, RFC 4330, RFC 1213, RFC 1215, RFC 1286, RFC 1442, RFC 1451, RFC 1493, RFC 1573, RFC 1643, RFC 1757, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 1157, RFC 1493, RFC 1215, RFC 3416

Feature	Description	
IPv6		
IPv6	IPv6 host mode IPv6 over Ethernet Dual IPv6/IPv4 stack IPv6 neighbor and router discovery (ND) IPv6 stateless address auto-configuration Path maximum transmission unit (MTU) discovery Duplicate address detection (DAD) ICMP version 6 IPv6 over IPv4 network with Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) support USGv6 and IPv6 Gold Logo certified	
IPv6 QoS	Prioritize IPv6 packets in hardware	
IPv6 ACL	Drop or rate limit IPv6 packets in hardware	
IPv6 First Hop Security	RA guard ND inspection DHCPv6 guard Neighbor binding table (Snooping and static entries) Neighbor binding integrity check	
Multicast Listener Discovery (MLD v1/2) snooping	Deliver IPv6 multicast packets only to the required receivers	
IPv6 applications	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, Telnet Client, DHCP Client, DHCP Autoconfig, IPv6 DHCP Relay, TACACS	
IPv6 RFCs supported	RFC 4443 (which obsoletes RFC2463) – ICMP version 6 RFC 4291 (which obsoletes RFC 3513) – IPv6 address architecture RFC 4291 – IPv6 addressing architecture RFC 2460 – IPv6 specification RFC 4861 (which obsoletes RFC 2461) – Neighbor discovery for IPv6 RFC 4862 (which obsoletes RFC 2462) – IPv6 stateless address auto-configuration RFC 1981 – Path MTU discovery RFC 4007 – IPv6 scoped address architecture RFC 3484 – Default address selection mechanism RFC 5214 (which obsoletes RFC 4214) – ISATAP tunneling RFC 4293 – MIB IPv6: Textual conventions and general group RFC 3595 – Textual conventions for IPv6 flow label	
Management		
Web user interface	Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring.	
SNMP	SNMP versions 1, 2c, and 3 with support for traps, and SNMP version 3 user-based security model (USM)	
Standard MIBs	draft-ietf-bridge-8021x-MIB draft-ietf-bridge-rstpmib-04-MIB draft-ietf-hubmib-etherif-MIB-v3-00-MIB draft-ietf-syslog-device-MIB ianaaddrfamnumbers-MIB ianaifty-MIB ianaprot-MIB inet-address-MIB ip-forward-MIB ip-MIB RFC1155-SMI RFC1213-MIB	rfc2012-MIB rfc2011-MIB draft-ietf-entmib-sensor-MIB lldp-MIB lldpextdot1-MIB lldpextdot3-MIB lldpextmed-MIB p-bridge-MIB q-bridge-MIB rfc1389-MIB rfc1493-MIB rfc1611-MIB rfc1612-MIB rfc1850-MIB

Feature	Description	
Private MIBs (continued)	CISCOSB-dhcp-MIB CISCOSB-dlf-MIB CISCOSB-dnscl-MIB CISCOSB-embweb-MIB CISCOSB-fft-MIB CISCOSB-file-MIB CISCOSB-greeneth-MIB CISCOSB-interfaces-MIB CISCOSB-interfaces_recovery-MIB	CISCOSB-qosclimib-MIB CISCOSB-digitalkeymanage-MIB CISCOSB-tbp-MIB CISCOSMB-MIB CISCOSB-secsd-MIB CISCOSB-draft-ietf-entmib-sensor-MIB CISCOSB-draft-ietf-syslog-device-MIB CISCOSB-rfc2925-MIB
Remote Monitoring (RMON)	Embedded RMON software agent supports 4 RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis	
IPv4 and IPv6 dual stack	Coexistence of both protocol stacks to ease migration	
Firmware upgrade	• Web browser upgrade (HTTP/HTTPS) and TFTP and upgrade over SCP running over SSH • Upgrade can be initiated through console port as well • Dual images for resilient firmware upgrades	
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored to one destination port. A single session is supported.	
VLAN mirroring	Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer or RMON probe. Up to 8 source VLANs can be mirrored to one destination port. A single session is supported.	
DHCP (Options 12, 66, 67, 82, 129, and 150)	DHCP Options facilitate tighter control from a central point (DHCP server) to obtain IP address, auto-configuration (with configuration file download), DHCP relay, and hostname.	
Secure Copy (SCP)	Securely transfer files to and from the switch	
Autoconfiguration with Secure Copy (SCP) file download	Enables secure mass deployment with protection of sensitive data	
Text-editable config files	Config files can be edited with a text editor and downloaded to another switch, facilitating easier mass deployment	
Smartports	Simplified configuration of QoS and security capabilities	
Auto Smartports	Applies the intelligence delivered through the Smartport roles and applies it automatically to the port based on the devices discovered over CDP or LLDP-MED. This facilitates zero touch deployments.	
Textview CLI	Scriptable command-line interface. A full CLI as well as a menu-based CLI is supported. User privilege levels 1, 7, and 15 is supported for the CLI.	
Cloud services	Support for Cisco Small Business FindIT Network and Cisco OnPlus	
Localization	Localization of GUI and documentation into multiple languages	
Other management	Traceroute; single IP management; HTTP/HTTPS; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client; BOOTP; SNTP; Xmodem upgrade; cable diagnostics; ping; syslog; Telnet client (SSH secure support)	
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up)	
Login banner	Configurable multiple banners for web as well as CLI	
Power Efficiency		
EEE Compliant (802.3az)	Supports 802.3az on all copper ports (SG300 models)	
Energy Detect	Automatically turns off power off on Gigabit Ethernet and 10/100 RJ-45 port when detecting link down Active mode is resumed without loss of any packets when the switch detects the link up	
Cable length detection	Adjusts the signal strength based on the cable length for Gigabit Ethernet models. Reduces the power consumption for cables shorter than 10m.	
Disable port LEDs	LEDs can be manually turned off to save on Energy	
General		
Jumbo frames	Frame sizes up to 9K (9216) bytes supported on 10/100 and Gigabit interfaces	
MAC table	Up to 16K (16384) MAC addresses	
Discovery		
Bonjour	The switch advertises itself using the Bonjour protocol.	
Link Layer Discovery Protocol (LLDP) (802.1ab) with LLDP-MED extensions	LLDP allows the switch to advertise its identification, configuration, and capabilities to neighboring devices that store the data in a MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones.	

Feature	Description
Cisco Discovery Protocol (CDP)	The switch advertises itself using the Cisco Discovery Protocol. It also learns the connected device and its characteristics via CDP.
Power over Ethernet (PoE)	
802.3af PoE and 802.3at PoE+ delivered over any of the RJ-45 ports within the listed power budgets	Switches support 802.3at PoE+, 802.3af, and Cisco pre-standard (legacy) PoE. Maximum power of 30.0W to any 10/100 or Gigabit Ethernet port for PoE+ supported devices and 15.4W for PoE supported devices, until the PoE budget for the switch is reached. The total power available for PoE per switch is as follows:

Model Name	Power Dedicated to PoE	Number of Ports That Support PoE
SF302-08P	62W	8
SF302-08PP	62W (PoE+ supported)	8
SF302-08MP	124W	8
SF302-08MPP	124W (PoE+ supported)	8
SF300-24P	180W	24
SF300-24PP	180W (PoE+ supported)	24
SF300-24MP	375W (PoE+ supported)	24
SF300-48P	375W	48
SF300-48PP	375W (PoE+ supported)	48
SG300-10P	62W	8
SG300-10PP	62W (PoE+ supported)	8
SG300-10MP	124W	8
SG300-10MPP	124W (PoE+ supported)	8
SG300-28P	180W	24
SG300-28PP	180W (PoE+ supported)	24
SG300-28MP	375W (PoE+ supported)	24
SG300-52P	375W (PoE+ supported)	48
SG300-52MP	740W (PoE+ supported)	48

Power consumption (worst case)

Model Name	Power Savings Mode	System Power Consumption	Power Consumption: Case (with PoE)	Heat Dissipation Worst Case (BTU/hr)
SF300-08	Energy Detect	110V=6.1W 220V=7.2W	N/A	24.57
SF302-08	Energy Detect	110V=8.0W 220V=8.6W	N/A	29.34
SF302-08P	Energy Detect	110V=10.3W 220V=11.5W	110V=81.3W 220V=82.1W	280.13
SF302-08PP	Energy Detect	110V=9.12W 220V=9.31W	110V=80.68W 220V=79.62W	271.67
SF302-08MP	Energy Detect	110V=9.5W 220V=10.3W	110V=150.1W 220V=149.9W	512.14
SF302-08MPP	Energy Detect	110V=9.66W 220V=9.83W	110V=143.89W 220V=142.97W	487.83
SF300-24	Energy Detect	110V=16.4W 220V=17.1W	N/A	58.35
SF300-24P	Energy Detect	110V=25.8W 220V=27.3W	110V=223W 220V=217.9W	760.88
SF300-24PP	Energy Detect	110V=26.7W 220V=27.9W	110V=218.57W 220V=213.35W	727.98
SF300-24MP	Energy Detect Short Reach	110V=37.7W 220V=38.0W	110V=441W 220V=431W	1504.69

Feature	Description				
	SF300-48	Energy Detect	110V=24W 220V=24.8W	N/A	84.62
	SF300-48P	Energy Detect	110V=46.4W 220V=46.3W	110V=465W 220V=449W	1531.99
	SF300-48PP	Energy Detect	110V=47.7W 220V=48.2W	110V=421.36W 220V=412.43W	1407.23
	SG300-10	Energy Detect Short Reach	110V=10.33W 220V=10.27W	N/A	35.25
	SG300-10SFP	Energy Detect Short Reach	110V=18.10W 220V=17.71W	N/A	61.76
	SG300-10P	Energy Detect Short Reach	110V=13.13W 220V=13.48W	110V=81.44W 220V=81.16W	277.87
	SG300-10PP	Energy Detect Short Reach	110V=13.37W 220V=12.99W	110V=83.47W 220V=81.58W	278.36
	SG300-10MP	Energy Detect Short Reach	110V=12.21W 220V=12.25W	110V=154.36W 220V=152.42W	526.68
	SG300-10MPP	Energy Detect Short Reach	110V=13.41W 220V=13.72W	110V=145.7W 220V=144.5W	493.05
	SG300-20	Energy Detect Short Reach	110V=16.05W 220V=16.26W	N/A	55.48
	SG300-28	Energy Detect Short Reach	110V=19.8W 220V=20.6W	N/A	70.29
	SG300-28P	Energy Detect Short Reach	110V=29.7W 220V=30.7W	110V=214.4W 220V=210W	731.53
	SG300-28PP	Energy Detect Short Reach	110V=31.9W 220V=33.0W	110V=222W 220V=217W	740.43
	SG300-28MP	Energy Detect Short Reach	110V=42.4W 220V=43.1W	110V=445W 220V=436W	1487.63
	SG300-28SFP	Energy Detect/Short Reach	110V=28W 220V=28.2W	N/A	96.2 BTU/hr
	SG300-52	Energy Detect Short Reach	110V=45.9W 220V=45.3W	N/A	156.61
	SG300-52P	Energy Detect Short Reach	110V=61.25W 220V=61.46W	110V=473.62W 220V=461.88W	1617.29
	SG300-52MP	Energy Detect Short Reach	110V=64.24W 220V=68.80W	110V=873.05W 220V=843.57W	2978.85

Ports	**Model Name**	**Total System Ports**	**RJ-45 Ports**	**Combo Ports (RJ-45 + SFP)**
	SF300-08	8 Fast Ethernet	8 Fast Ethernet	N/A
	SF302-08	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08P	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08PP	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08MP	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF302-08MPP	8 Fast Ethernet + 2 Gigabit Ethernet	8 Fast Ethernet	2 Gigabit Ethernet combo
	SF300-24	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo

Feature	Description			
	SF300-24P	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-24PP	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-24MP	24 Fast Ethernet + 4 Gigabit Ethernet	24 Fast Ethernet + 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-48	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-48P	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SF300-48PP	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10SFP	10 Gigabit Ethernet	8 SFP	2 Gigabit Ethernet combo
	SG300-10P	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10PP	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10MP	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-10MPP	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-20	20 Gigabit Ethernet	18 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28P	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28SFP	28 Gigabit Ethernet	26 SFP	2 Gigabit Ethernet combo
	SG300-28PP	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-28MP	28 Gigabit Ethernet	26 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-52	52 Gigabit Ethernet	50 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-52P	52 Gigabit Ethernet	50 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG300-52MP	52 Gigabit Ethernet	50 Gigabit Ethernet	2 Gigabit Ethernet combo
Buttons	Reset button			
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5 Ethernet or better for 1000BASE-T			
LEDs	System, Link/Act, PoE, Speed, LED power saving option			
Flash	16 MB			
CPU memory	128 MB			
Packet buffer	All numbers are aggregate across all ports as the buffers are dynamically shared:			
	Model Name		**Packet Buffer**	
	SF300-08		8 Mb	
	SF302-08		8 Mb	
	SF302-08P		8 Mb	

Feature	Description			
	SF302-08PP		8 Mb	
	SF302-08MP		8 Mb	
	SF302-08MPP		8 Mb	
	SF300-24		8 Mb	
	SF300-24P		8 Mb	
	SF300-24PP		8 Mb	
	SF300-24MP		8 Mb	
	SF300-48		8 Mb*2	
	SF300-48P		8 Mb*2	
	SF300-48PP		8 Mb*2	
	SG300-10		8 Mb	
	SG300-10SFP		8 Mb	
	SG300-10P		8 Mb	
	SG300-10PP		8 Mb	
	SG300-10MP		8 Mb	
	SG300-10MPP		8 Mb	
	SG300-20		8 Mb	
	SG300-28		8 Mb	
	SG300-28SFP		8 Mb	
	SG300-28P		8 Mb	
	SG300-28PP		8 Mb	
	SG300-28MP		8 Mb	
	SG300-52		8 Mb*2	
	SG300-52P		8 Mb*2	
	SG300-52MP		8 Mb*2	
Supported SFP modules	**SKU**	**Media**	**Speed**	**Maximum Distance**
	MFEFX1	Multimode fiber	100 Mbps	2 km
	MFELX1	Single-mode fiber	100 Mbps	10 km
	MFEBX1	Single-mode fiber	100 Mbps	20 km
	MGBBX1	Single-mode fiber	1000 Mbps	40 km
	MGBSX1	Multimode fiber	1000 Mbps	300 m
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBLX1	Single-mode fiber	1000 Mbps	10 km
	MGBT1	UTP cat 5	1000 Mbps	100 m
Environmental				
Dimensions (W x H x D)	SF300-08, SF302-08, SF302-08P, SF302-08PP, SF302-08MP, SF302-08MPP, SG300-10SFP, SG300-10, SG300-10P, SG300-10PP, SG300-10MP, SG300-10MPP 11 x 1.45 x 6.7 in. (279.4 x 44.45 x 170 mm) SG300-20 17.3 x 1.45 x 7.97 in. (440 x 44.45 x 202.5 mm) SF300-24, SF300-24P, SF300-24PP, SF300-48, SG300-28, SG300-28P, SG300-28PP, SG300-52, SG300-28SFP 17.3 x 1.45 x 10.1 in. (440 x 44.45 x 257 mm) SF300-24MP, SG300-28MP, SF300-48P, SF300-48PP, SG300-52P, SG300-52MP 17.3 x 1.45 x 13.78 in. (440 x 44.45 x 350 mm)			

Feature	Description			
Unit weight	SF300-08: 2.56 lb (1.16 kg) SF302-08: 2.6 lb (1.18 kg) SF302-08P: 2.67 lb (1.21 kg) SF302-08PP: 2.60 lb (1.18 kg) SF302-08MP: 2.67 lb (1.21 kg) SF302-08MPP: 2.60 lb (1.18 kg) SF300-24: 6.81 lb (3.09 kg) SF300-24P: 8.22 lb (3.73 kg) SF300-24PP: 8.25 lb (3.74 kg) SF300-24MP: 11.2 lb (5.08 kg) SF300-48: 7.47 lb (3.39 kg) SF300-48P: 12.94 lb (5.87 kg) SF300-48PP: 11.99 lb (5.44 kg)		SG300-10: 2.56 lb (1.16 kg) SG300-10SFP: 4.68 lb (2.125 kg) SG300-10P: 2.73 lb (1.24 kg) SG300-10PP: 2.73 lb (1.24kg) SG300-10MP: 2.73 lb (1.24 kg) SG300-10MPP: 2.73 lb (1.24kg) SG300-20: 4.78 lb (2.17 kg) SG300-28: 7.23 lb (3.28 kg) SG300-28P: 9.06 lb (4.11 kg) SF300-28SFP: 7.4 lb (3.34 kg) SG300-28PP: 8.71 lb (3.95 kg) SG300-28MP: 11.6 lb (5.26 kg) SG300-52: 8.62 lb (3.91 kg) SG300-52P: 11.68 lb (5.3 kg) SG300-52MP: 11.73 lb (5.32 kg)	
Power	100-240V 47-63 Hz, internal, universal – SF300-24, SF300-24P, SF300-24PP, SG300-20, SG300-28, SG300-28P, SG300-28PP, SG300-52 100-240V 50-60 Hz, internal, universal – SF300-24MP, SF300-48PP, SG300-28MP, SG300-52P, SG300-52MP, SG300-28SFP 100-240V 50-60 Hz, 0.5A, external – SF300-08, SF302-08, SG300-10, SG300-10SFP 100-240V 50-60 Hz, 2A, external – SF302-08P, SF300-08PP, SG300-10P, SG300-10PP 100-240V 50-60 Hz, 2.5A, external – SF302-08MP, SF302-08MPP, SG300-10MP, SG300-10MPP			
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A			
Operating temperature	SF300-08, SF302-08, SF302-08P, SF302-08MP, SF300-24, SF300-24P, SF300-48, SF300-48P, SG300-10, SG300-10P, SG300-10MP, SG300-20, SG300-28, SG300-28P, SG300-52 32°to 104°F (0°to 40°C) SF302-08MPP, SF302-08PP, SF300-24PP, SG300-52P, SG300-52MP, SG300-10SFP, SG300-10MPP, SG300-10PP, SG300-28PP 32°to 113°F (0°to 45°C) SF300-24MP, SF300-48PP, SG300-28MP, SG300-28SFP 32°to 122°F (0°to 50°C)			
Storage temperature	-4°to 158°F (-20°to 70°C)			
Operating humidity	10% to 90%, relative, noncondensing			
Storage humidity	10% to 90%, relative, noncondensing			
Acoustic Noise and MTBF	**Model Name**	**FAN (Number)**	**Acoustic Noise**	**MTBF @40°C (hr)**
	SF300-08	Fanless	N/A	71,006
	SF302-08	Fanless	N/A	69,825
	SF302-08P	Fanless	N/A	65,527
	SF302-08PP	Fanless	N/A	899,905
	SF302-08MP	Fanless	N/A	63,569
	SF302-08MPP	Fanless	N/A	899,905
	SF300-24	Fanless	N/A	282,775.3
	SF300-24P	2 pcs	41.0 dB	241,995.9
	SF300-24PP	2 pcs	40.4 dB	171,504 (at 50°C)
	SF300-24MP	4 pcs	41.6 dB at 30°C 53.9dB at 50°C	135,669.9 (at 50°C)
	SF300-48	Fanless	N/A	199,664.2
	SF300-48P	3 pcs w/Fan speed control	43.1 dB at 30°C 54.3 dB at 40°C	182,540.0
	SF300-48PP	4 pcs w/Fan speed control	43.5 dB at 30°C 54.1 dB at 40°C	113,692 (at 50°C)
	SG300-10	Fanless	N/A	74,294
	SG300-10SFP	Fanless	N/A	132,151 (at 45°C)

Feature	Description			
	SG300-10P	Fanless	N/A	67,009
	SG300-10PP	Fanless	N/A	945,042
	SG300-10MP	Fanless	N/A	67,008
	SG300-10MPP	Fanless	N/A	945,042
	SG300-20	Fanless	N/A	144,237
	SG300-28	Fanless	N/A	179,141.0
	SG300-28SFP	2 pcs	40.9 dB	614,062 (at 50C)
	SG300-28P	2 pcs	40.6 dB	187,334.9
	SG300-28PP	2 pcs	40.4 dB	310,755 (at 45°C)
	SG300-28MP	4 pcs	41.7dB at 30°C 54dB at 50°C	138,676.92 (at 50°C)
	SG300-52	2 pcs	40.1dB	206,005.6
	SG300-52P	4 pcs	46.9dB	100,262 (at 45°C) 80,562 (at 50°C)
	SG300-52MP	4 pcs	47.4dB	117,130 (at 45°C) 93,132 (at 50°C)
Warranty	Limited lifetime with next business day advance replacement (where available)			

Package Contents
• Cisco 300-series Ethernet Switch • Power Cord (Power Adapter for Desktop SKUs) • Mounting Kit included in all SKUs, including Desktop models • Serial Cable • CD-ROM with user documentation (PDF) included • Quick Start Guide
Minimum Requirements
• Web browser: Mozilla Firefox version 8 or later; Microsoft Internet Explorer version 7 or later, Safari, Chrome • Category 5 Ethernet network cable • TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in the network

Ordering Information

Table 2 provides ordering information for the Cisco 300 Series Switches.

Table 2. Cisco 300 Series Switches Ordering Information

Model Name	Order Product ID Number	Description
Fast Ethernet		
SF300-08	SRW208-K9	• 8 10/100 ports
SF302-08	SRW208G-K9	• 8 10/100 ports • 2 combo mini-GBIC ports
SF302-08P	SRW208P-K9	• 8 10/100 PoE ports with 62W power budget • 2 combo mini-GBIC ports
SF302-08PP	SF302-08PP-K9	• 8 10/100 PoE+ ports with 62W power budget • 2 combo mini-GBIC ports
SF302-08MP	SRW208MP-K9	• 8 10/100 Maximum PoE ports with 124W power budget • 2 combo mini-GBIC ports
SF302-08MPP	SF302-08MPP-K9	• 8 10/100 Maximum PoE+ ports with 124W power budget • 2 combo mini-GBIC ports

Model Name	Order Product ID Number	Description
SF300-24	SRW224G4-K9	• 24 10/100 ports • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-24P	SRW224G4P-K9	• 24 10/100 PoE ports with 180W power budget • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-24PP	SF300-24PP-K9	• 24 10/100 PoE+ ports with 180W power budget • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-24MP	SF300-24MP-K9	• 24 10/100 PoE+ ports with 375W power budget • 2 10/100/1000 ports • 2 combo mini-GBIC
SF300-48	SRW248G4-K9	• 48 10/100 ports • 2 10/100/1000 ports • 2 combo mini-GBIC
SF300-48P	SRW248G4P-K9	• 48 10/100 PoE ports with 375W power budget • 2 10/100/1000 ports • 2 combo mini-GBIC ports
SF300-48PP	SF300-48PP-K9	• 48 10/100 PoE+ ports with 375W power budget • 2 10/100/1000 ports • 2 combo mini-GBIC ports
Gigabit Ethernet		
SG300-10	SRW2008-K9	• 8 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-10SFP	SG300-10SFP-K9	• 8 10/100/1000 ports (SFP) • 2 Combo mini-GBIC ports
SG300-10P	SRW2008P-K9	• 8 10/100/1000 PoE ports with 62W power budget • 2 Combo mini-GBIC ports
SG300-10PP	SG300-10PP-K9	• 8 10/100/1000 PoE+ ports with 62W power budget • 2 Combo mini-GBIC ports
SG300-10MP	SRW2008MP-K9	• 8 10/100/1000 Maximum PoE ports with 124W power budget • 2 combo mini-GBIC ports
SG300-10MPP	SG300-10MPP-K9	• 8 10/100/1000 Maximum PoE+ ports with 124W power budget • 2 combo mini-GBIC ports
SG300-20	SRW2016-K9	• 18 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-28	SRW2024-K9	• 26 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-28SFP	SG300-28SFP-K9	• 26 10/100/1000 ports (SFP) • 2 combo mini-GBIC ports
SG300-28P	SRW2024P-K9	• 26 10/100/1000 ports (24 PoE ports with 180W power budget) • 2 combo mini-GBIC ports
SG300-28PP	SG300-28PP-K9	• 26 10/100/1000 ports (24 PoE+ ports with 180W power budget) • 2 combo mini-GBIC ports
SG300-28MP	SG300-28MP-K9	• 26 10/100/1000 ports (24 PoE+ ports with 375W power budget) • 2 combo mini-GBIC ports
SG300-52	SRW2048-K9	• 50 10/100/1000 ports • 2 combo mini-GBIC ports
SG300-52P	SG300-52P-K9	• 50 10/100/1000 ports (48 PoE+ ports with 375W power budget) • 2 combo mini-GBIC ports
SG300-52MP	SG300-52MP-K9	• 50 10/100/1000 ports (48 PoE+ ports with 740W power budget) • 2 combo mini-GBIC ports

*Each combo mini-GBIC port has one 10/100/1000 Ethernet port and one mini-GBIC/SFP Gigabit Ethernet slot, with one port active at a time.