Cisco 200 Series Smart Switches
Cisco Small Business

Build a Powerful, Easy-to-Use Basic Business Network at an Affordable Price

The key to succeeding in today's competitive business environment is investing resources wisely – knowing how to separate the essential from the extraneous and get the most value for your dollar. As the backbone of your business and productivity applications, the small business network clearly falls into the "essential" category. But that doesn't mean you need the most advanced feature set on the market.

With Cisco® 200 Series Smart Switches, you can achieve business-class network security and performance without paying for advanced network management features that you will not need. When you need a reliable solution to share network resources and connect computers, printers, and servers, but low cost is a top priority, Cisco 200 Series Smart Switches provide the ideal solution.

Figure 1. Cisco 200 Series Smart Switches

Cisco 200 Series Smart Switches

The Cisco 200 Series (Figure 1) is a series of affordable smart switches that combine powerful network performance and reliability with the essential network management features you need for a solid business network. These expandable Fast Ethernet or Gigabit Ethernet switches provide basic management, security, and quality-of-service (QoS) features beyond those of an unmanaged or consumer-grade switch, at a lower cost than managed switches. And with an easy-to-use web user interface, Cisco Discovery Protocol, and Cisco Smartports, you can deploy and configure a rock-solid business network in minutes.

Business Applications

Whether you need basic high-speed connectivity for your computers and servers or a comprehensive voice, data, and wireless technology solution, Cisco 200 Series switches can meet your business needs. Possible deployment scenarios include:

- **High-speed desktop connectivity.** Cisco 200 Series switches can quickly and securely connect employees working in small offices with one another and with all of the servers, printers, and other devices they use. High performance and reliable connectivity help speed file transfers and data processing, improve network uptime, and keep your employees connected and productive.

- **Highly secure wireless connectivity.** Cisco 200 Series switches work with Cisco and third-party wireless solutions to extend the reach of your network. Employees can work productively from conference rooms and common areas, collaborate in any office, and access business applications from wherever they are. With their security features, Power over Ethernet (PoE), Auto Smartports, VLAN, and QoS, these switches are the perfect foundation to add business-grade wireless to a network.
- **Unified communications.** The Cisco 200 Series provides QoS features to enable you to prioritize delay-sensitive traffic in your network and let you converge all of your communications solutions – such as IP telephony and video surveillance – onto a single Ethernet network. Cisco offers a complete portfolio of IP telephony and other unified communications products designed for small businesses, and Cisco 200 Series switches have been rigorously tested to help ensure easy integration and full compatibility with these and other vendor products.

Features and Benefits

Cisco 200 Series Smart Switches provide all of the features you need to create a basic business-class network at an affordable price. These features include:

- **Easy configuration and management:** Cisco 200 Series switches are designed to be easy to deploy and use by small businesses or the partners that serve them. Simple-to-use web-based interfaces reduce the time it takes to deploy, manage, and troubleshoot your network. Key features include:
  - Cisco Discovery Protocol and Link Layer Discovery Protocol (LLDP-MED) automatically detect all the devices connected to your network and then automatically configure themselves for the appropriate connectivity and instruct the devices to use appropriate voice VLAN or QoS parameters.
  - Cisco Smartports technology provides for more advanced capabilities and hands-on control by automatically configuring ports with specific levels of security, QoS, and availability according to the type of connected device, based on Cisco best practices and pretested configurations. The Auto Smartports feature automatically applies the intelligence delivered through the Smartports roles to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This capability facilitates zero-touch deployments.
  - Cisco FindIT Network Discovery Utility works through a simple toolbar on the user's web browser to discover Cisco devices on the network and display basic information, such as serial numbers and IP addresses, to aid in the configuration and speed the deployment of Cisco Small Business products. For more information, and to download the utility, visit http://www.cisco.com/go/findit.
- **Performance and reliability:** Cisco 200 Series switches have been tested to deliver the high availability and performance you would expect from a Cisco switch and help you prevent costly downtime. The switches speed file transfer times, improve slow and sluggish networks, keep your vital business applications available, and help your employees respond more quickly to customers and each other. With a network based on Cisco 200 Series switches, you can address all of your business communications and connectivity needs and reduce the total cost of ownership of your technology infrastructure.
- **Power over Ethernet (PoE):** Cisco 200 Series switches are available with PoE on both Fast Ethernet and Gigabit Ethernet models. This capability simplifies the deployment of IP telephony, wireless, video surveillance, and other solutions by allowing you to send data and power to network endpoints over the same network cable. With no need for separate power supplies or outlets for IP phones, IP cameras, or wireless access points, you can speed up deployment and installation and take advantage of advanced communications technologies quickly, and at a lower cost.

- **Network security:** Cisco 200 Series switches provide security and network management features you need to maintain a high level of security for your business, keep unauthorized users off the network, and protect your business data. The switches provide integrated network security to reduce the risk of a security breach, with IEEE 802.1X port security to control access to your network. Denial-of-service (DOS) attack prevention increases network uptime in the presence of an attack.
- **IP telephony support:** Cisco 200 Series switches include QoS features to prioritize delay-sensitive services such as voice and video, simplify unified communications deployments, and help ensure consistent network performance for all services.
- **Networkwide automatic voice deployment:** Using a combination of Cisco Discovery Protocol, LLDP-MED, Auto Smartports, and Voice Services Discovery Protocol (VSDP) – a unique patent-pending Cisco protocol – customers can deploy an end-to-end voice network dynamically. The switches in the network automatically converge into a single voice VLAN and set of QoS parameters and then propagate them out to the phones on the ports where they are discovered. For example, automated voice VLAN capabilities let you plug any IP phone (including third-party phones) into your IP telephony network and receive an immediate dial tone. The switch automatically configures the device with the right VLAN and QoS parameters to prioritize voice traffic.
- **IPv6 support:** As the IP network addressing scheme evolves to accommodate more devices, you can make sure that your network is ready. Cisco 200 Series switches provide native support for IPv6 alongside traditional IPv4. That means you can take full advantage of IPv6-enabled operating systems and applications in the future, without having to upgrade your network equipment.
- **An energy-efficient solution:** Cisco 200 Series switches are designed to be energy efficient and eco-friendly without compromising performance. They help conserve energy by optimizing power use, which helps protect the environment and lowers your energy costs. Power-saving features include:
  - Energy-Efficient Ethernet (EEE, the IEEE 802.3az standard), supported on Cisco 200 Series Gigabit Ethernet switch models. EEE improves the efficiency of network equipment and provides standardized signaling mechanisms that can enable rapid transitions between normal operation and low power idle (LPI) states in systems on either end of the physical layer link.
  - Automatic power down on Gigabit Ethernet ports when a link is not active.
  - Embedded intelligence to adjust power based on cable length on Gigabit Ethernet models.
  - Fanless design in most models, which reduces power consumption, increases reliability, and provides quieter operation.
- **Additional Gigabit Ethernet ports:** The Cisco 200 Series provides more ports per switch than other switches in the market, giving you more flexibility to connect and empower your business. Gigabit Ethernet models feature 26- and 50-port switches, versus traditional devices that offer 20 or 44 ports with 4 shared ports. The Cisco 200 Series also offers mini Gigabit Interface Converter (mini-GBIC) expansion slots that give you the option to add fiber optic or Gigabit Ethernet uplink connectivity to the switch. With the ability to increase the connectivity range of the switches, you have more flexibility to design your network around your unique business environment, and to easily connect switches on different floors or across the business.

- **Peace of mind and investment protection:** Cisco 200 Series switches offer the reliable performance, investment protection, and peace of mind you expect from a Cisco switch. When you invest in the Cisco 200 Series, you gain the benefit of:
  - Cisco limited lifetime warranty to protect your investment.
  - Rigorous testing to help ensure easy integration and compatibility with other Cisco networking and communications products, including the complete Cisco Small Business portfolio.
- **Limited lifetime warranty:** The Cisco 200 Series switches come with the Cisco Limited Lifetime Hardware Warranty, with return-to-factory replacement, a 1-year limited warranty for fans and power supplies, and a 90-day limited software warranty. In addition, Cisco offers software 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 http://www.cisco.com/cisco/web/download/index.html.
- **World-class support:** To extend the support coverage beyond the warranty provisions, choose the Cisco Small Business Support Service, which helps you get the most value from Cisco Small Business solutions, providing peace of mind at an affordable price. The subscription-based service offers software upgrades and updates, access to the Cisco Small Business Support Center, next-business-day hardware replacement (if needed), and telephone and online chat support. To learn more, visit http://www.cisco.com/go/smbservices.

  To find out where Cisco Small Business Support Service is available by country, go to https://supportforums.cisco.com/community/netpro/small-business/sbcountrysupport.
- **Multiple language options:** The Cisco 200 Series is available in seven languages: English, French, German, Italian, Spanish, Japanese, and simplified Chinese. All product documentation and most user interfaces are translated, giving you the ability to select your preferred language.

Product Specifications

Table 1 gives the product specifications for the Cisco 200 Series Switches.

Table 1. Product Specifications

Feature	Description		
Performance			
Switching capacity and forwarding rate	**Model**	**Capacity in Millions of Packets per Second (mpps) (64-byte packets)**	**Switching Capacity in Gigabits per Second (Gbps)**
	SF200-24	6.55	8.8
	SF200-24P	6.55	8.8
	SF200-24FP	6.55	8.8
	SF200-48	10.12	13.6
	SF200-48P	10.12	13.6
	SG200-08	11.9	13.6
	SG200-08P	11.9	13.6
	SG200-10FP	14.88	20.0
	SG200-18	26.78	36.0
	SG200-26	38.69	52.0
	SG200-26P	38.69	52.0
	SG200-26FP	38.69	52.0
	SG200-50	74.41	100.0

Feature	Description		
	SG200-50P	74.41	100.0
	SG200-50FP	74.41	100.0
Layer 2 Switching			
Spanning Tree Protocol (STP)	Standard 802.1d STP support Fast convergence using 802.1w (Rapid Spanning Tree [RSTP]), enabled by default		
Port grouping	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 4 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation		
VLAN	Support for up to 256 VLANs simultaneously (out of 4096 VLAN IDs). 16 VLANs supported in SG200-08 and SG200-08P Port-based and 802.1Q tag-based VLANs		
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS		
Internet Group Management Protocol (IGMP) versions 1 and 2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 256 multicast groups (16 for SG200-08 and SG200-08P)		
Head-of-line (HOL) blocking	HOL blocking prevention		
Security			
IEEE 802.1X (Authenticator role)	802.1X: RADIUS authentication, MD5 hash		
Port security	Locks MAC addresses to ports, and limits the number of learned MAC addresses		
Storm control	Broadcast, multicast, and unknown unicast		
DoS prevention	DoS attack prevention		
Quality of Service			
Priority levels	4 hardware queues		
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on differentiated services code point (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)		
Rate limiting	Ingress policer, per VLAN and per port		
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), IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, 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 951, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1350, RFC 1533, RFC 1541, RFC 1542, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 2618		
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) Internet Control Message Protocol (ICMP) version 6 IPv6 over IPv4 network with Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) support		
IPv6 QoS	Prioritize IPv6 packets in hardware		

Feature	Description	
Multicast Listener Discovery (MLD) snooping	Deliver IPv6 multicast packets only to the required receivers	
IPv6 applications	Web, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), RADIUS, syslog, DNS client	
IPv6 RFCs supported	RFC 2463: ICMP version 6 RFC 3513: IPv6 address architecture RFC 4291: IPv6 addressing architecture RFC 2460: IPv6 specification RFC 2461: Neighbor discovery for IPv6 RFC 2462: IPv6 stateless address auto-configuration RFC 1981: Path maximum transmission unit (MTU) discovery RFC 4007: IPv6 scoped address architecture RFC 3484: Default address selection mechanism 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). Supports configuration, system dashboard, system maintenance, and monitoring	
Simple Network Management Protocol (SNMP)	SNMP versions 1, 2c, and 3 with support for traps, and SNMP version 3 user-based security model (USM) Not supported on SG200-08 and SG200-08P	
Standard MIBs (Not supported on SG200-08 and SG200-08P)	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 SNMPv2-MIB SNMPv2-SMI SNMPv2-TM RMON-MIB.my dcb-raj-DCBX-MIB-1108-MIB rfc1724-MIB RFC-1212.my_for_MG-Soft rfc1213-MIB rfc1757-MIB RFC-1215.my SNMPv2-CONF.my SNMPv2-TC.my rfc2674-MIB rfc2575-MIB rfc2573-MIB rfc2233-MIB rfc2013-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 rfc1907-MIB rfc2571-MIB rfc2572-MIB rfc2574-MIB rfc2576-MIB rfc2613-MIB rfc2665-MIB rfc2668-MIB rfc2737-MIB rfc2925-MIB rfc3621-MIB rfc4668-MIB rfc4670-MIB trunk-MIB tunnel-MIB udp-MIB

Feature	Description	
Private MIBs (Not supported on SG200-08 and SG200-08P)	CISCOSB-lldp-MIB	CISCOSB-ip-MIB
	CISCOSB-brgmulticast-MIB	CISCOSB-iprouter-MIB
	CISCOSB-bridgemibobjects-MIB	CISCOSB-ipv6-MIB
	CISCOSB-bonjour-MIB	CISCOSB-mnginf-MIB
	CISCOSB-dhcpcl-MIB	CISCOSB-lcli-MIB
	CISCOSB-MIB	CISCOSB-localization-MIB
	CISCOSB-wrandomtaildrop-MIB	CISCOSB-mcmngr-MIB
	CISCOSB-traceroute-MIB	CISCOSB-mng-MIB
	CISCOSB-telnet-MIB	CISCOSB-physdescription-MIB
	CISCOSB-stormctrl-MIB	CISCOSB-Poe-MIB
	CISCOSB-ssh-MIB	CISCOSB-protectedport-MIB
	CISCOSB-socket-MIB	CISCOSB-rmon-MIB
	CISCOSB-sntp-MIB	CISCOSB-rs232-MIB
	CISCOSB-smon-MIB	CISCOSB-SecuritySuite-MIB
	CISCOSB-phy-MIB	CISCOSB-snmp-MIB
	CISCOSB-multisessionterminal-MIB	CISCOSB-specialbpdu-MIB
	CISCOSB-mri-MIB	CISCOSB-banner-MIB
	CISCOSB-jumboframes-MIB	CISCOSB-syslog-MIB
	CISCOSB-gvrp-MIB	CISCOSB-TcpSession-MIB
	CISCOSB-endofmib-MIB	CISCOSB-traps-MIB
	CISCOSB-dot1x-MIB	CISCOSB-trunk-MIB
	CISCOSB-deviceparams-MIB	CISCOSB-tuning-MIB
	CISCOSB-cli-MIB	CISCOSB-tunnel-MIB
	CISCOSB-cdb-MIB	CISCOSB-udp-MIB
	CISCOSB-brgmacswitch-MIB	CISCOSB-vlan-MIB
	CISCOSB-3sw2swtables-MIB	CISCOSB-ipstdacl-MIB
	CISCOSB-smartPorts-MIB	CISCO-SMI-MIB
	CISCOSB-tbi-MIB	CISCOSB-DebugCapabilities-MIB
	CISCOSB-macbaseprio-MIB	CISCOSB-CDP-MIB
	CISCOSB-policy-MIB	CISCOSB-vlanVoice-MIB
	CISCOSB-env_mib	CISCOSB-EVENTS-MIB
	CISCOSB-sensor-MIB	CISCOSB-sysmng-MIB
	CISCOSB-aaa-MIB	CISCOSB-sct-MIB
	CISCOSB-application-MIB	CISCO-TC-MIB
	CISCOSB-bridgesecurity-MIB	CISCO-VTP-MIB
	CISCOSB-copy-MIB	CISCO-CDP-MIB
	CISCOSB-CpuCounters-MIB	CISCOSB-eee-MIB
	CISCOSB-Custom1BonjourService-MIB	CISCOSB-ssl-MIB
	CISCOSB-dhcp-MIB	CISCOSB-qosclimib-MIB
	CISCOSB-dlf-MIB	CISCOSB-digitalkeymanage-MIB
	CISCOSB-dnscl-MIB	CISCOSB-tbp-MIB
	CISCOSB-embweb-MIB	CISCOSMB-MIB
	CISCOSB-fft-MIB	CISCOSB-secsd-MIB
	CISCOSB-file-MIB	CISCOSB-draft-ietf-entmib-sensor-MIB
	CISCOSB-greeneth-MIB	CISCOSB-draft-ietf-syslog-device-MIB
	CISCOSB-interfaces-MIB	CISCOSB-rfc2925-MIB
	CISCOSB-interfaces_recovery-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) and TFTP	
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 4 source ports can be mirrored to one destination port. A single session is supported.	

Feature	Description
VLAN mirroring	Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer or RMON probe. Up to 4 source VLANs can be mirrored to one destination port. A single session is supported.
Dynamic Host Configuration Protocol (DHCP) (options 66 and 67)	(DHCP) options facilitate tighter control from a central point (DHCP server) to obtain IP address and perform auto-configuration (with configuration file download)
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 Not supported on SG200-08 and SG200-08P
Auto Smartports	Automatically applies the intelligence delivered through the Smartports roles to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This facilitates zero touch deployments. Not supported on SG200-08 and SG200-08P
Cloud services	Support for FindIT Network Discovery Utility and Cisco Active Advisor
Localization	Localization of GUI and documentation into multiple languages
Other management	HTTP, RADIUS, port mirroring, TFTP upgrade, DHCP client, BOOTP, SNTP, ping, syslog
Power Efficiency	
EEE compliant (802.3az)	Supports 802.3az on all copper Gigabit Ethernet ports (SG200-xx models) Not supported on SG200-08 and SG200-08P
Energy Detect mode	Automatically turns off power on Gigabit Ethernet RJ-45 port when the switch detects a link down Active mode is resumed without loss of any packets when the switch detects that the link is back up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter than 10 m. Not supported on SG200-08 and SG200-08P
General	
Jumbo frames	Frame sizes up to 10 KB supported on 10/100 and Gigabit Ethernet interfaces (9 KB for SG200-08 and SG200-08P)
MAC table	Up to 8,000 MAC addresses
Discovery	
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, which store the data in an MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones.
Cisco Discovery Protocol	The switch advertises itself using the Cisco Discovery Protocol. It also learns the connected device and its characteristics via this protocol. Not supported on SG200-08 and SG200-08P
Auto Smartports	Automatically applies the intelligence delivered through the Smartports roles to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This capability facilitates zero-touch deployments. Not supported on SG200-08 and SG200-08P
Bonjour	The switch advertises itself using the Bonjour protocol
Power over Ethernet (PoE)	
IEEE 802.3af PoE delivered on half of the RJ-45 ports within the listed power budgets	Maximum power of 15.4W to any 10/100 or Gigabit Ethernet base port supporting PoE. The total power available for PoE per switch is as follows:

Model	Power Dedicated to PoE	Number of Ports That Support PoE
SF200-24P	100W	12
SF200-24FP	180W	24
SF200-48P	180W	24
SG200-08P	32W	4
SG200-10FP	62W	8
SG200-26P	100W	12
SG200-26FP	180W	24
SG200-50P	180W	24

Feature	Description			
	SG200-50FP	375W		48
IEEE 802.3af PoE Powered Device (PD)	Besides AC power, SG200-08 can work as PoE powered device (PD) and be powered by PoE switch connected to port 1. When both AC and PoE power are connected, PoE is preferred over AC, and AC will function as the backup to PoE power source.			
Power consumption	**Model**	**Power Savings Mode**	**Power Consumption: Worst Case**	**Heat Dissipation (BTU/hr)**
	SF200-24	Energy Detect	110V/0.272A/13.7W 220V/0.169A/14.5W	49.5
	SF200-24P	Energy Detect	110V/0.346A/21.3W 220V/0.166A/22.2W	75.8
	SF200-24FP	Energy Detect	110V/0.231A/23.5W 220V/0.179A/24.4W	85.6
	SF200-48	Energy Detect	110V/0.453A/26.2W 220V/0.276A/26.8W	91.5
	SF200-48P	Energy Detect	110V/0.355A/37.2W 220V/0.217A/37.4W	127.6
	SG200-08	Auto power down for link down	110V/P=6.7W 220V/P=7.21W	24.6
	SG200-08P	Auto power down for link down	110V/P=7.6W 220V/P=8.1W	27.6
	SG200-10FP	Short reach plus Energy Detect	110V/P=13.13W 220V/P=13.48W	46.0
	SG200-18	Short reach plus Energy Detect	110V/P=22.4W 20V/P=22.9W	78.2
	SG200-26	Short reach plus Energy Detect	110V/0.513A/27.8W 220V/0.306A/28.3W	96.6
	SG200-26P	Short reach plus Energy Detect	110V/0.591A/36.8W 220V/0.381A/37.5W	97.9
	SG200-26FP	Short reach plus Energy Detect	110V/0.269A/27.8W 220V/0.196A/28.7W	128.0
	SG200-50	Short reach plus Energy Detect	110V/0.569A/61.8W 220V/0.296A/61.4W	209.6
	SG200-50P	Short reach plus Energy Detect	110V/0.595A/62W 220V/0.338A/61.2W	211.6
	SG200-50FP	Short reach plus Energy Detect	110V/0.749A/76.4W 220V/0.412A/78.3W	267.2
Ports	**Model Name**	**Total System Ports**	**RJ-45 Ports**	**Combo Ports (RJ-45 + SFP)**
	SF200-24	24 Fast Ethernet 2 Gigabit Ethernet	24 Fast Ethernet	2 Gigabit Ethernet combo
	SF200-24P	24 Fast Ethernet 2 Gigabit Ethernet	24 Fast Ethernet	2 Gigabit Ethernet combo
	SF200-24FP	24 Fast Ethernet 2 Gigabit Ethernet	24 Fast Ethernet	2 Gigabit Ethernet combo
	SF200-48	48 Fast Ethernet 2 Gigabit Ethernet	48 Fast Ethernet	2 Gigabit Ethernet combo
	SF200-48P	48 Fast Ethernet 2 Gigabit Ethernet	48 Fast Ethernet	2 Gigabit Ethernet combo
	SG200-08	8 Gigabit Ethernet	8 Gigabit Ethernet	–
	SG200-08P	8 Gigabit Ethernet	8 Gigabit Ethernet	–
	SG200-10FP	8 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-18	18 Gigabit Ethernet	16 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-26	26 Gigabit Ethernet	24 Gigabit Ethernet	2 Gigabit Ethernet combo

Feature	Description			
	SG200-26P	26 Gigabit Ethernet	24 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-26FP	26 Gigabit Ethernet	24 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-50	50 Gigabit Ethernet	48 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-50P	50 Gigabit Ethernet	48 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG200-50FP	50 Gigabit Ethernet	48 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			
Flash	16 MB (8 MB in SG200-08 and SG200-08P)			
CPU memory	128 MB (32 MB in SG200-08 and SG200-08P)			
Packet buffer	All numbers are aggregate across all ports, as the buffers are dynamically shared:			
	Model		**Packet Buffer**	
	SF200-24		8 Mb	
	SF200-24P		8 Mb	
	SF200-24FP		8 Mb	
	SF200-48		16 Mb	
	SF200-48P		16 Mb	
	SG200-08		4 Mb	
	SG200-08P		4 Mb	
	SG200-10FP		8 Mb	
	SG200-18		8 Mb	
	SG200-26		8 Mb	
	SG200-26P		8 Mb	
	SG200-26FP		8 Mb	
	SG200-50		16 Mb	
	SG200-50P		16 Mb	
	SG200-50FP		16 Mb	
Supported Small Form-Factor Pluggable (SFP) Modules	**Product Ordering Number**	**Media**	**Speed**	**Typical Distance**
	MFEFX1	Multimode fiber	100 Mbps	2 km
	MFELX1	Single-mode fiber	100 Mbps	15 km
	MFEBX1	Single-mode fiber	100 Mbps	20 km
	MGBBX1	Single-mode fiber	1000 Mbps	10 km
	MGBSX1	Multimode fiber	1000 Mbps	500 m
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBLX1	Single-mode fiber	1000 Mbps	10 km
Environmental				
Dimensions (W x H x D)	**Model**	**Metric (mm)**	**Inches**	
	SF200-24	440 x 44.32 x 257	17.35 x 1.74 x 10.1	
	SF200-24P	440 x 44 x 257	17.35 x 1.73 x 10.1	
	SF200-24FP	440 x 44 x 257	17.35 x 1.73 x 10.1	
	SF200-48	440 x 44 x 257	17.35 x 1.73 x 10.1	
	SF200-48P	440 x 44.32 x 350	17.35 x 1.74 x 13.8	

Feature	Description		
	SG200-08	113 x 27 x 130	4.45 x 1.06 x 5.12
	SG200-08P	130 x 42.3 x 130	5.12 x 1.52 x 5.12
	SG200-10FP	279.4 x 44.45 x 170	11 x 1.45 x 6.7
	SG200-18	440.6 x 44.32 x 202.82	17.35 x 1.74 x 7.99
	SG200-26	440 x 44 x 257	17.35 x 1.73 x 10.1
	SG200-26P	440 x 44 x 257	17.35 x 1.73 x 10.1
	SG200-26FP	440 x 44 x 257	17.35 x 1.73 x 10.1
	SG200-50	440 x 44 x 257	17.35 x 1.73 x 10.1
	SG200-50P	440 x 44 x 350	17.35 x 1.73 x 13.8
	SG200-50FP	440 x 44 x 350	17.35 x 1.73 x 13.8
Unit weight	**Model**	**Kilograms**	**Pounds**
	SF200-24	3.04	6.70
	SF200-24P	3.45	7.61
	SF200-24FP	3.67	8.09
	SF200-48	3.42	7.54
	SF200-48P	4.73	10.43
	SG200-08	0.75	1.65
	SG200-08P	1.26	2.78
	SG200-10FP	1.26	2.78
	SG200-18	2.01	4.43
	SG200-26	3.27	7.21
	SG200-26P	3.67	8.09
	SG200-26FP	3.82	8.42
	SG200-50	3.96	8.73
	SG200-50P	5.47	12.06
	SG200-50FP	6.04	13.32
Power	**Model**	**Power**	
	SF200-24	100V-240V, 50-60 HZ, internal, universal	
	SF200-24P	100V-240V, 50-60 HZ, internal, universal	
	SF200-24FP	100V-240V 47-63 Hz, internal, universal	
	SF200-48	100V-240V, 50-60 HZ, internal, universal	
	SF200-48P	100V-240V, 47-63 HZ, internal, universal	
	SG200-08	(external) 100V-240V, 0.5A, 50-60 HZ	
	SG200-08P	(external) 100V-240V, 1-0.56A, 50-60 HZ	
	SG200-10FP	(external) 100V-240V, 2A, 50-60 Hz	
	SG200-18	100V-240V, 50-60 HZ, internal, universal	
	SG200-26	100V-240V, 50-60 HZ, internal, universal	
	SG200-26P	100V-240V, 50-60 HZ, internal, universal	
	SG200-26FP	100V-240V 47-63 Hz, internal, universal	
	SG200-50	110V-240V, 50-60 HZ, internal, universal	
	SG200-50P	100V-240V, 47-63 HZ, internal, universal	
	SG200-50FP	100V-240V 47-63 Hz, internal, universal	

Feature	Description			
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A			
Operating temperature	SF200-24, SF200-24P, SF200-48, SF200-48P, SG200-08, SG200-08P, SG200-18, SG200-26, SG200-26P, SG200-50, SG200-50P 32° to 104°F (0° to 40°C) SG200-10FP 32° to 113°F (0° to 45°C) SF200-24FP, SG200-26FP, SG200-50FP 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 mean time between failures (MTBF)	**Model**	**Fan (Number)**	**Acoustic Noise**	**MTBF @ 40°C (hours)**
	SF200-24	No	–	414,166
	SF200-24P	1	40.2 dB	307,098
	SF200-24FP	2	40.2 dB	314,444.5 (based on 45°C)
	SF200-48	No	–	267,865
	SF200-48P	2	41.7 dB	174,966
	SG200-08	No	–	71,834
	SG200-08P	No	–	69,003
	SG200-10FP	No	–	287,436 (based on 45°C)
	SG200-18	No	–	68,033
	SG200-26	No	–	194,278
	SG200-26P	1	40.2 dB	218,842
	SG200-26FP	2	40.2 dB	319,407 (based on 45°C)
	SG200-50	2	41.7 dB	237,610
	SG200-50P	4	42.5 dB at 30°C 54.7 dB at 40°C	208,976
	SG200-50FP	4	42.1 dB at 30°C 55.9 dB at 50°C	192,790 (based on 45°C)
Warranty	Limited lifetime			

Package Contents
• Cisco 200 Series Smart Switch • Power cord (power adapter for 8-port and 10-port SKUs) • Mounting hardware • 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 200 Series Switches. Table 3 gives ordering information for the MFE and MGE transceivers.

Table 2. Cisco 200 Series Switches Ordering Information

Model	Product Ordering Number	Description
Fast Ethernet		
SF200-24	SLM224GT-xx	• 24 10/100 ports • 2 combo mini-GBIC ports*
SF200-24P	SLM224PT-xx	• 24 10/100 ports • 2 combo mini-GBIC ports* • PoE support on 12 ports with 100W power budget
SF200-24FP	SF200-24FP-xx	• 24 10/100 ports • 2 combo mini-GBIC ports* • PoE support on 24 ports with 180W power budget
SF200-48	SLM248GT-xx	• 48 10/100 ports • 2 combo mini-GBIC ports*
SF200-48P	SLM248PT-xx	• 48 10/100 ports • 2 combo mini-GBIC ports* • PoE support on 24 ports with 180W power budget
Gigabit Ethernet		
SG200-08	SLM2008T-xx	• 8 10/100/1000 ports
SG200-08P	SLM2008PT-xx	• 8 10/100/1000 ports • PoE support on 4 ports with 32W power budget
SG200-10FP	SG200-10FP-xx	• 10 10/100/1000 ports • 2 combo mini-GBIC ports* • PoE support on 8 ports with 62W power budget
SG200-18	SLM2016T-xx	• 16 10/100/1000 ports • 2 combo mini-GBIC ports*
SG200-26	SLM2024T-xx	• 24 10/100/1000 ports • 2 combo mini-GBIC ports*
SG200-26P	SLM2024PT-xx	• 24 10/100/1000 ports • 2 combo mini-GBIC ports* • PoE support on 12 ports with 100W power budget
SG200-26FP	SG200-26FP-xx	• 24 10/100/1000 ports • 2 combo mini-GBIC ports* • PoE support on 24 ports with 180W power budget
SG200-50	SLM2048T-xx	• 48 10/100/1000 ports • 2 combo mini-GBIC ports*
SG200-50P	SLM2048PT-xx	• 48 10/100/1000 ports • 2 combo mini-GBIC ports* • PoE support on 24 ports with 180W power budget
SG200-50FP	SG200-50FP-xx	• 48 10/100/1000 ports • 2 combo mini-GBIC ports* • PoE support on 48 ports with 375W power budget

* 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.

Table 3. Service and Support Ordering Information

Service Ordering Number	Description
CON-SBS-SVC2	3 years support, software updates, Small Business Support Center access via online, telephone, or community, next-business-day advance replacement

Table 4. MFE and MGE Transceiver Ordering Information

Product Ordering Number	Description
MFE Transceivers	
MFEBX1	100BASE-BX-20U SFP transceiver for single-mode fiber, 1310 nm wavelength, supports up to 20 km
MFELX1	100BASE-LX SFP transceiver for single-mode fiber, 1310 nm wavelength, supports up to 15 km
MFEFX1	100BASE-FX SFP transceiver for multimode fiber, 1310 nm wavelength, supports up to 2 km
MGE Transceivers	
MGBBX1	1000BASE-BX-20U SFP transceiver for single-mode fiber, 1310 nm wavelength, supports up to 10 km
MGBLH1	1000BASE-LH SFP transceiver for single-mode fiber, 1310 nm wavelength, supports up to 40 km
MGBLX1	1000BASE-LX SFP transceiver for single-mode fiber, 1310 nm wavelength, supports up to 10 km
MGBSX1	1000BASE-SX SFP transceiver for multimode fiber, 850 nm wavelength, supports up to 500 m

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To find out more about Cisco 200 Series Smart Switches, visit http://www.cisco.com/go/200switches.

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