- **Support for advanced technologies:** All switches include advanced Cisco traffic-handling features to keep your applications running at peak performance. Integrated QoS intelligence on all models automatically prioritizes delay-sensitive services such as voice or video to improve your network's performance. Loop detection helps discover loops in the network that you might have accidentally created, thus avoiding broadcast storms that will bring your network to a stall. Cable diagnostics help to quickly identify and troubleshoot network cabling faults and issues. Fast store-and-forward switching identifies damaged packets and prevents them from being passed on through the network. All of these features run automatically, with no management or configuration required.
- **Peace of mind:** Cisco 110 Series switches deliver the rock-solid reliability you expect from a Cisco switch. The solution has been rigorously tested to make sure of optimal uptime and performance. In addition, the limited lifetime hardware warranty provides peace of mind.

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco 110 Series.

Table 1.   Specifications for Cisco 110 Series Switches

Specifications	Description
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, 802.1p priority, Energy Efficient Ethernet, 802.3af, Power over Ethernet
Cabling type	Category 5e or better
LED indicators	System/PWR, link/activity, 100M,*PoE, *mMax PoE, cable diagnostics, loop detection, gigabit,* mini-GBIC* *if present
Physical Interfaces	
Ports	10/100/1000 Ethernet, with support for 802.3af PoE, power port for AC adapter or power cord
Power supply	SF110D-05, SF110D-08: DC 12V, 500mA SF110D-16, SG110D-08, SG110D-05: DC 12V, 1.0A SF110D-08HP, SG110D-8HP: DC 48V. 1.25A SF110-16, SF110D-16HP, SF110-24, SF112-24, SG110-16, SG110-16HP, SG110-24, SG110-24HP, SG112-24: 110-240VAC, 50-60 Hz, internal, universal
Lock slot	Slot for Kensington lock
Physical Specifications	
Physical dimensions (W x D x H)	SF110D-05: 3.65 x 1.06 x 3.57 inches (92.6 x 27 x 90.6 mm) SF110D-08: 5.12 x 1.06 x 5.12 inches (130 x 27 x 130 mm SF110D-08HP: 6.29 x 1.18 x 5.05 inches (160 x 30 x 128.5 mm) SF110D-16: 5.12 x 1.52 x 5.12 inches (130 x 38.5 x 130 mm) SF110-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SF110D-16HP: 6.29 x 3.54 x 1.69 inches (160 x 90 x 43 mm) SF110-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SF112-24: 17.35 x 1.74 x 7.99 inches (440.6 x 202.82 x 44.32 mm) SG110D-05: 4.33 x 1.18 x 3.93 inches (110 x 30 x 110 mm) SG110D-08: 5.51 x 1.31 x 5.51 inches (140 x 33.35 x 140 mm) SG110D-08HP: 6.29 x 1.18 x 5.05 inches (160 x 30 x 128.5 mm) SG110-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SG110-16HP: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SG110-24: 17.35 x 1.74 x 7.99 inches (440.6 x 202.82 x 44.32 mm) SG110-24HP: 17.35 x 1.74 x 7.99 inches (440.6 x 202.82 x 44.32 mm) SG112-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm)

Specifications	Description
Weight	SF110D-05: 0.47 lb. (0.22 kg)
	SF110D-08: 0.83 lb. (0.38 kg)
	SF110D-08HP: 1.2 lb. (0.545 kg)
	SF110D-16: 1.03 lb. (0.46 kg)
	SF110-16: 2.79 lb. (1.25 kg)
	SF110D-16HP: 0.99 lb. (0.45 kg)
	SF110-24: 2.91 lb. (1.32 kg)
	SF112-24: 4.93 lb. (2.00 kg)
	SG110D-05: 0.70 lb. (0.32 kg)
	SG110D-08: 0.94 lb. (0.43 kg)
	SG110D-08HP: 1.2 lb. (0.55 kg)
	SG110-16: 3.15 lb. (2.13 kg)
	SG110-16HP: 4.15 lb. (1.43 kg)
	SG110-24: 3.59 lb. (1.63 kg)
	SG110-24HP: 4.59 lb. (2.43 kg)
	SG112-24: 5.05 lb. (2.3 kg)
Ports	SF110D-05: 5 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF110D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF110D-08HP: 8 RJ-45 connectors for 10BASE-T/100BASE-TX;
	SF110D-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF110D-16HP: 16 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF110-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF110-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF112-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX; with 2 combo mini-GBIC slots
	SG110D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG110D-08HP: 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG110-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG110-16HP: 16 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG110-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports with 2 combo mini-GBIC slots
	SG110-24HP: 24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports with 2 combo mini-GBIC slots
	SG112-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports with 2 combo mini-GBIC slots
	All units: automatic medium dependent interface (MDI) and MDI crossover (MDI-X); autonegotiated port for connecting 10-, 100-, 1000-Mbps devices

Power over Ethernet (PoE)	Model Name	Power Dedicated to PoE	Number of PoE Ports
	SF110D-08HP	32 watts	4
	SF110D-16HP	64 watts	8
	SG110D-08HP	32 watts	4
	SG110-16HP	64 watts	8
	SG110-24HP	100 watts	12

Fan/fanless models	All models have no fans and are fanless, except for SG100-24HP
Performance	
Switching capacity	SF110D-05: 1 Gbps
	SF110D-08: 1.6 Gbps
	SF110D-08HP: 1.6 Gbps
	SF110D-16: 3.2 Gbps
	SF110-16: 3.2 Gbps
	SF110D-16HP: 3.2 Gbps
	SF110-24: 4.8 Gbps
	SF112-24: 8.8 Gbps
	SG110D-05: 10 Gbps
	SG110D-08: 16 Gbps
	SG110D-08HP: 16 Gbps
	SG110-16: 32 Gbps
	SG110-16HP: 32 Gbps

Specifications	Description
	SG110-24: 48 Gbps SG110-24HP: 48 Gbps SG112-24: 48 Gbps
Forwarding capacity	Forwarding rate in million packets per second (mpps) (based on 64-byte packets): SF110D-05: 0.74 mpps SF110D-08: 1.4. mpps S110D-08HP: 1.2 mpps SF110D-16: 1.4 mpps SF110-16: 1.4 mpps SF110D-16HP: 1.4 mpps SF110-24: 3.6 mpps SF112-24: 6.5 mpps SG110D-05: 7.4 mpps SG110D-08: 11.9 mpps SG110D-08HP: 11.9 mpps SG110-16: 23.8 mpps SG110-16HP: 23.8 mpps SG110-24: 35.7 mpps SG110-24HP: 35.7 mpps SG112-24: 35.7 mpps
Capabilities	
Head-of-line (HOL) blocking	HOL blocking prevention
Jumbo frame	9216 bytes
Quality of service (QoS)	802.1p priority based, 4 hardware queues, priority queuing and weighted round-robin (WRR)
Loop detection	Helps discover loops in the network to avoid broadcast storms
Cable diagnostics	Quickly identify and troubleshoot network cable faults and/or shorts
Mounting and Physical Security	
Mounting options	Desktop or rack mount
Physical security lock	Kensington lock slot
Environmental	
Compliance/certifications	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A, FCC Class B[*] [*]select models
Operating temperature	32° to 104°F (0° to 40°C)
Storage temperature	-4° to 158°F (-20° to 70°C)
Operating humidity	10% to 90%, relative, noncondensing
Storage humidity	5% to 90%, relative, noncondensing
System memory	128-MB RAM 128-MB Flash
Package Contents	

- Cisco 110 Series switch
- Power cord/power adapter
- Quick-start guide
- Mounting hardware

Minimum Requirements

- Devices supporting 802.3 Ethernet, 802.u Faster Ethernet, or 802.3ab Gigabit Ethernet
- Cat5 or better Ethernet cable
- Network interface card for each computer

Warranty

Cisco 110 Series switch	Limited lifetime

Ordering Information

Table 2 gives ordering information for the Cisco 110 Series Unmanaged Switches.

Table 2.   Ordering Information for Cisco 110 Series Unmanaged Switches

Part Number	Description
SF110D-05	Cisco SF110D-05 - 5-Port 10/100 Desktop Switch
SF110D-08	Cisco SF110D-08 8-port 10/100 Desktop Switch
SF110D-08HP	Cisco SF110D-08P 8-port 10/100 PoE Desktop Switch
SF110D-16	Cisco SF110D-16 16-port 10/100 Desktop Switch
SF110D-16HP	Cisco SF110D-16P 16-port 10/100 PoE Desktop Switch
SF110-16	Cisco SF110-16 16-Port 10/100 Switch
SF110-24	Cisco SF110-24 24-Port 10/100 Switch
SF112-24	Cisco SF112-24 24-port 10/100 + 2 Mini-GBIC & 2 GE Uplink
SG110D-05	Cisco SG110D-05 5-port Gigabit Desktop Switch
SG110D-08	Cisco SG110D-08 8-Port Gigabit Switch
SG110D-08HP	Cisco SG110D-08P 8-Port Gigabit PoE Switch
SG110-16	Cisco SG110-16 16-Port Gigabit Switch
SG110-16HP	Cisco SG110-16HP 16-Port PoE Gigabit Switch
SG112-24	Cisco SG112-24 COMPACT 24-port Gig Switch-2 Mini-GBIC Ports
SG110-24	Cisco SG110-24 24-port Gigabit Switch + 2 Mini GBIC Ports 1U
SG110-24HP	Cisco SG110-24HP 24-Port PoE Gigabit Switch

Cisco Limited Lifetime Warranty for Cisco Small Business Products

This Cisco Small Business product comes with a limited lifetime hardware warranty. Product warranty terms and other information applicable to Cisco products are available at http://www.cisco.com/go/warranty.

Services for Small Business

Reduce downtime with fast, expert technical support and flexible hardware coverage. Cisco Services improve network availability and help you get the most value from your Cisco products. Service plans for your Cisco Small Business products provide more support than a product warranty. A warranty protects you against product defects, and a majority of support calls are unrelated to faulty materials or manufacturing. Most callers ask about product features, technical problems, or how to expand their network.

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For more information about Cisco Services, see http://www.cisco.com/go/sbs.

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For more information about Cisco Small Business products and solutions, visit http://www.cisco.com/smallbusiness or http://www.cisco.com/go/110Switches.