

# Cisco 110 Series Unmanaged Switches

## Affordable, Easy-to-Use Switches for Small Business Networks, with Zero Configuration Required

### Highlights

- Affordable 10/100/1000-Mbps speeds for even the most bandwidth-hungry applications
- 5- to 24-port models that are desktop or rack mountable
- Power over Ethernet models to provide power to IP phones, access points, and other devices
- Works right out of the box: plug and play and no setup

### Product Overview

Give your office network a boost of speed and performance at a low price that takes almost no time to set up. Easily build a highly reliable network to connect your computers, printers, copiers, and other office equipment. If your business is like most small companies, you do not have an IT staff to set up your network for you. Now you can have a high-performance, business-class office network that just works, right out of the box, with the Cisco® 110 Series Unmanaged Switches. Users, workgroups, labs, departments, or growing offices can now deliver large amounts of multimedia, image, and video information across the network in almost no time.

Cisco 110 Series Unmanaged Switches deliver basic network connectivity and reliability for small businesses that is easy on the budget and without all the complexity. These switches provide all of the features, expandability, and investment protection you expect from Cisco, with no installation software and nothing to configure. Just plug it in, connect your computers and other business equipment, and get to work.

Cisco 110 Series Unmanaged Switches (Figure 1), part of the Cisco Small Business networking solutions, are a line of unmanaged switches that provide wire-speed Fast Ethernet and Gigabit Ethernet connectivity to connect your small business office. Available in desktop and rack-mount models, these switches are designed to suit any office space with basic network needs and to optimize power efficiency. They use less power and provide the robust, reliable connectivity your business demands, as well as support for advanced features such as quality of service (QoS), loop detection, and cable diagnostics, all in a switch that you can set up yourself in minutes. A business-class, affordable network solution, Cisco 110 Series switches bring the proven reliability and investment protection of Cisco networking solutions to your small business.

**Figure 1.** Cisco 110 Series Unmanaged Switches



## Features

Cisco 110 Series switches provide an easy-to-use solution for your small business network. They offer:

- **Ease of use:** Cisco 110 Series switches work right out of the box, with no software to install and nothing to configure. Each switch port independently sets itself for the optimal speed and determines whether to run in half- or full-duplex mode automatically. As a standards-based Cisco solution, Cisco 110 Series switches are also designed to immediately accommodate all of the devices in your network, including:
  - Support for 10 megabits per second (Mbps), 100 Mbps, and up to 1 gigabit per second (1000 Mbps) devices in the same network
  - Automatic cable detection, so you do not have to worry about using the wrong cable type
  - Compatibility with network devices from other vendors
- **Simple setup:** Designed for small office spaces, Cisco 110 Series switches are available in both compact desktop and rack-mount models. The desktop models offer a wall-mount option for discreet mounting under a desk or on the wall of an office or conference room.
- **High performance:** Cisco 110 Series switches deliver the performance you need to run your business applications, including bandwidth-intensive video services, and avoid slow and sluggish networks. They support Gigabit Ethernet speeds, unlocking a new level of capacity and performance in your business network and letting you transfer large files in seconds.
- **Reduced energy costs:** Cisco 110 Series switches are designed to help conserve energy by optimizing power use without compromising performance, which protects our environment and reduces your energy costs. In addition, they support the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods. Most of the switches have no fans, so they run silently and unobtrusively while lowering energy costs.
- **Power over Ethernet (PoE):** Cisco 110 Series switches are available with PoE ports 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 connect and power network endpoints over a single Ethernet cable. With no need to install separate power supplies for IP phones or wireless access points, you can take advantage of advanced communications technologies more quickly and at a lower cost.

- **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
<b>Standards</b>	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
<b>Cabling type</b>	Category 5e or better
<b>LED indicators</b>	System/PWR, link/activity, 100M, PoE, mMax PoE, cable diagnostics, loop detection, gigabit, mini-GBIC <sup>1</sup> if present
<b>Physical Interfaces</b>	
<b>Ports</b>	10/100/1000 Ethernet, with support for 802.3af PoE, power port for AC adapter or power cord
<b>Power supply</b>	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
<b>Lock slot</b>	Slot for Kensington lock
<b>Physical Specifications</b>	
<b>Physical dimensions (W x D x H)</b>	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		
<b>Weight</b>	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)		
<b>Ports</b>	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		
<b>Power over Ethernet (PoE)</b>	<b>Model Name</b>	<b>Power Dedicated to PoE</b>	<b>Number of PoE Ports</b>
	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
<b>Fan/fanless models</b>	All models have no fans and are fanless, except for SG100-24HP		
<b>Performance</b>			
<b>Switching capacity</b>	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
<b>Forwarding capacity</b>	SG110-24: 48 Gbps SG110-24HP: 48 Gbps SG112-24: 48 Gbps
	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	
<b>Capabilities</b>	
<b>Head-of-line (HOL) blocking</b>	HOL blocking prevention
<b>Jumbo frame</b>	9216 bytes
<b>Quality of service (QoS)</b>	802.1p priority based, 4 hardware queues, priority queuing and weighted round-robin (WRR)
<b>Loop detection</b>	Helps discover loops in the network to avoid broadcast storms
<b>Cable diagnostics</b>	Quickly identify and troubleshoot network cable faults and/or shorts
<b>Mounting and Physical Security</b>	
<b>Mounting options</b>	Desktop or rack mount
<b>Physical security lock</b>	Kensington lock slot
<b>Environmental</b>	
<b>Compliance/certifications</b>	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A, FCC Class B *select models
<b>Operating temperature</b>	32° to 104°F (0° to 40°C)
<b>Storage temperature</b>	-4° to 158°F (-20° to 70°C)
<b>Operating humidity</b>	10% to 90%, relative, noncondensing
<b>Storage humidity</b>	5% to 90%, relative, noncondensing
<b>System memory</b>	128-MB RAM 128-MB Flash
<b>Package Contents</b>	
<ul style="list-style-type: none"> <li>• Cisco 110 Series switch</li> <li>• Power cord/power adapter</li> <li>• Quick-start guide</li> <li>• Mounting hardware</li> </ul>	
<b>Minimum Requirements</b>	
<ul style="list-style-type: none"> <li>• Devices supporting 802.3 Ethernet, 802.u Faster Ethernet, or 802.3ab Gigabit Ethernet</li> <li>• Cat5 or better Ethernet cable</li> <li>• Network interface card for each computer</li> </ul>	
<b>Warranty</b>	
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
<b>SF110D-05</b>	Cisco SF110D-05 - 5-Port 10/100 Desktop Switch
<b>SF110D-08</b>	Cisco SF110D-08 8-port 10/100 Desktop Switch
<b>SF110D-08HP</b>	Cisco SF110D-08P 8-port 10/100 PoE Desktop Switch
<b>SF110D-16</b>	Cisco SF110D-16 16-port 10/100 Desktop Switch
<b>SF110D-16HP</b>	Cisco SF110D-16P 16-port 10/100 PoE Desktop Switch
<b>SF110-16</b>	Cisco SF110-16 16-Port 10/100 Switch
<b>SF110-24</b>	Cisco SF110-24 24-Port 10/100 Switch
<b>SF112-24</b>	Cisco SF112-24 24-port 10/100 + 2 Mini-GBIC & 2 GE Uplink
<b>SG110D-05</b>	Cisco SG110D-05 5-port Gigabit Desktop Switch
<b>SG110D-08</b>	Cisco SG110D-08 8-Port Gigabit Switch
<b>SG110D-08HP</b>	Cisco SG110D-08P 8-Port Gigabit PoE Switch
<b>SG110-16</b>	Cisco SG110-16 16-Port Gigabit Switch
<b>SG110-16HP</b>	Cisco SG110-16HP 16-Port PoE Gigabit Switch
<b>SG112-24</b>	Cisco SG112-24 COMPACT 24-port Gig Switch-2 Mini-GBIC Ports
<b>SG110-24</b>	Cisco SG110-24 24-port Gigabit Switch + 2 Mini GBIC Ports 1U
<b>SG110-24HP</b>	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.

Cisco offers an unlimited number of calls and no restrictions on call duration, so you can get the help you need and the most from your Cisco product.

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

## For More Information

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




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