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Cisco 100 Series Unmanaged Switches Cisco Small Business

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

To stay on top of your business, you need to keep your office running smoothly. These days that means having a highly reliable network connecting your computers, printers, copiers, and other office equipment. But if your business is like most small companies, you don't 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 Cisco® 100 Series Unmanaged Switches.

Cisco 100 Series Unmanaged switches deliver basic network connectivity and reliability for small businesses, without 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 100 Series Unmanaged Switches

Cisco 100 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) - all in a switch that you can set up yourself, in minutes. A business-class, affordable network solution, Cisco 100 Series switches bring the proven reliability and investment protection of Cisco networking solutions to your small business.

Figure 1. Cisco 100 Series Unmanaged Switches



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Features and Benefits

Cisco 100 Series switches provide an easy-to-use solution for your small business network. They offer:

- **Ease of use:** Cisco 100 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 100 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 don't have to worry about using the wrong cable type
  - Compatibility with network devices from other vendors
- **Simple setup:** Designed for small office spaces, Cisco 100 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 100 Series switches deliver the performance you need to run your business applications - including bandwidth-intensive video services - and avoid slow and sluggish networks. It supports up 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 100 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:** Cisco 100 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. 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 100 Series switches deliver the rock-solid reliability you expect from a Cisco switch. The solution has been rigorously tested to ensure optimal uptime and performance. In addition, unlike the purchase of a consumer-grade product, your investment in a Cisco Small Business network will grow with your business.

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Cisco Limited Lifetime Warranty

Cisco Small Business products offer a limited lifetime hardware warranty with return to factory replacement and a 1-year limited warranty for fans and power supplies. In addition, Cisco offers software application updates for bug fixes, telephone technical, and online chat support at no charge for the first 12 months following the date of purchase. To download software updates, go to: http://www.cisco.com/go/smallbiz.

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

World-Class Service and Support

Cisco 100 Series switches are backed by the Cisco Small Business Support Service, which provides affordable peace-of-mind coverage. This subscription-based service helps you protect your investment and derive maximum value from Cisco Small Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates and access to the Cisco Small Business Support Center, and it extends technical service to three years.

Cisco Small Business products are supported by professionals in the Cisco Small Business Support Center, a dedicated resource for small business customers and networks, with locations worldwide that are specifically trained to understand your needs. You also have access to extensive technical and product information through the Cisco Small Business Support Community, an online forum that enables you to collaborate with your peers and reach Cisco technical experts for support information.

Product Specifications

Table 1 gives the product specifications for the Cisco 100 Series Switches.

Table 1. Product Specifications

Feature	Description
Performance	
Switching capacity	SF100D-05: 1 Gbps SF100D-08: 1.6 Gbps SF100D-08P: 1.6 Gbps SF100D-16: 3.2 Gbps SF100-16: 3.2 Gbps SF100D-16P: 3.2 Gbps SF100-24: 4.8 Gbps SF102-24: 8.8 Gbps SG100D-05: 10 Gbps SG100D-08: 16 Gbps SG100D-08P: 16 Gbps SG100-16: 32 Gbps SG100-24: 48 Gbps SG102-24: 48 Gbps
Forwarding capacity	Forwarding rate in million packets per second (mpps) (based on 64-byte packets): SF100D-05: 0.74 mpps SF100D-08: 1.4. mpps S100D-08P: 1.2 mpps SF100D-16: 1.4 mpps SF100-16: 1.4 mpps SF100D-16P: 1.4 mpps SF100-24: 3.6 mpps

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Feature	Description
	SF102-24: 6.5 mpps SG100D-05: 7.4 mpps SG100D-08: 11.9 mpps SG100D-08P: 11.9 mpps SG100-16: 23.8 mpps SG100-24: 35.7 mpps SG102-24: 35.7 mpps
Layer 2 Switching	
Head-of-line (HOL) blocking	HOL blocking prevention
Jumbo Frame	9216 bytes
Quality of Service (QoS)	
Priority levels	4 hardware queues
Scheduling	Priority queuing and weighted round-robin (WRR)
Class of service	802.1p priority based
Product Specifications	
Ports	SF100D-05: 5 RJ-45 connectors for 10BASE-T/100BASE-TX SF100D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX SF100D-08P: 8 RJ-45 connectors for 10BASE-T/100BASE-TX; SF100D-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX SF100D-16P: 16 RJ-45 connectors for 10BASE-T/100BASE-TX SF100-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX SF100-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX SF102-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX; with 2 combo mini-GBIC slots SG100D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports SG100D-08P: 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports SG100-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports SG100-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports with 2 combo mini-GBIC slots SG102-24: 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); auto negotiated port for connecting 10-, 100-, 1000- Mbps devices
PoE	SF100D-08P: 4 PoE ports with 33.12W dedicated power budget SF100D-16P: 8 PoE ports with 64W dedicated power budget SG100D-08P: 4 PoE ports with 33.6W dedicated power budget
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; 1000BASE-T recommended
LEDs	System/PWR, Link/Activity, 100M,* PoE, Max PoE, Gigabit,* mini-GBIC* * **if present**
Standards	802.3 10BASE-T Ethernet 802.3u 100BASE-TX Fast Ethernet 802.3ab 1000BASE-T Gigabit Ethernet 802.3z Gigabit Ethernet 802.3x flow control 802.1p priority IEEE 802.3az, Energy Efficient Ethernet 802.3af, Power Over Ethernet

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Feature	Description
Environmental	
Dimensions **W x H x D**	SF100D-05: 4.33 x 1.18 x 2.95 inches (110 x 30 x 75 mm) SF100D-08: 6.29 x 1.18 x 3.54 inches (160 x 30 x 90 mm) SF100D-08P: 6.29 x 1.18 x 5.05 inches (160 x 30 x 128.5 mm) SF100D-16: 6.29 x 1.71 x 3.54 inches (160 x 43.5 x 90 mm) SF100-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SF100D-16P: 6.29 x 1.69 x 3.54 inches (160 x 43 x 90 mm) SF100-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SF102-24: 17.35 x 1.74 x 7.99 inches (440.6 x 44.32 x 202.82 mm) SG100D-05: 4.33 x 1.18 x 3.93 inches (110 x 30 x 100 mm) SG100D-08: 6.29 x 1.18 x 4.07 inches (160 x 30 x 103.5 mm) SG100D-08P: 6.29 x 1.18 x 5.05 inches (160 x 30 x 128.5 mm) SG100-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) SG100-24: 17.35 x 1.74 x 7.99 inches (440.6 x 44.32 x 202.82 mm) SG102-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm)
Unit weight	SF100D-05: 0.47 lb. (0.22 kg) SF100D-08: 0.83 lb. (0.38 kg) SF100D-08P: 1.2 lb. (0.545 kg) SF100D-16: 1.03 lb. (0.46 kg) SF100-16: 2.79 lb. (1.25 kg) SF100D-16P: 0.99 lb. (0.45 kg) SF100-24: 2.91 lb. (1.32 kg) SF102-24: 4.93 lb. (2.00 kg) SG100D-05: 0.70 lb. (0.32 kg) SG100D-08: 0.94 lb. (0.43 kg) SG100D-08P: 1.2 lb. (0.55 kg) SG100-16: 3.15 lb. (1.43 kg) SG100-24: 3.59 lb. (1.63 kg) SG102-24: 5.05 lb. (2.3 kg)
Power	SF100D-05, SF100D-08: DC 12V, 500mA SF100D-16, SG100D-08, SG100D-05: DC 12V, 1.0A SF100D-08P, SG100D-8P: DC 48V. 1.25A SF100-16, SF100D-16P, SF100-24, SG100-16, SG100-24, SG102-24: 100-240VAC, 50-60 Hz, internal, universal
Certifications	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
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, non-condensing
Storage humidity	10% to 90%, relative, non-condensing
Package Contents	
• Cisco 100 Series Switch • Power cord/power adapter • Mounting hardware • Quick-start guide	
Minimum Requirements	
• 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	

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Ordering Information

Table 2 provides ordering information for the Cisco 100 Series Switches.

Table 2. Ordering Information

Switch Models	Product Order ID Number	Description
SF100D-05	SF100D-05	5 Port 10/100 Desktop Switch
SF100D-08	SF100D-08	8 Port 10/100 Desktop Switch
SF100D-08P	SF100D-08P	8 Port 10/100 PoE Desktop Switch
SF100D-16	SF100D-16	16 Port 10/100 Desktop Switch
SF100D-16P	SF100D-16P	16 Port 10/100 PoE Desktop Switch
SF100-16	SF100-16	16 Port 10/100 Switch
SF100-24	SF100-24	24 Port 10/100 Switch
SF102-24	SF102-24	24-port 10/100 Switch with 2 Combo Mini-GBIC Ports and 2 GE uplink ports
SG100D-05	SG100D-05	5 Port Gigabit Desktop Switch
SG100D-08	SG100D-08	8 Port Gigabit Desktop Switch
SG100D-08P	SG100D-08P	8 Port PoE Gigabit Desktop Switch
SG100-16	SG100-16	16 Port Gigabit Switch
SG100-24	SG100-24	24 Port Gigabit Switch with 2 Combo Mini-GBIC Ports
SG102-24	SG102-24	Compact 24 Port Gigabit Switch with 2 Combo Mini-GBIC Ports
SF102-24	SF102-24	24 10/100 ports + 2 combo* mini Gigabit Interface Converter (GBIC) ports Unmanaged rack-mount switch
SG100D-05	SG100D-05	5 10/100/1000 ports Unmanaged Gigabit desktop switch
SG100D-08	SG100D-08	8 10/100/1000 ports Unmanaged Gigabit desktop switch
SG100D-08P	SG100D-8P	8 10/100/1000 ports Unmanaged Gigabit desktop switch
SG100-16	SG100-16	16 10/100/1000 ports Unmanaged rack-mount switch
SG100-24	SG100-24	22 10/100/1000 ports + 2 combo* mini-GBIC ports Unmanaged rack-mount switch
SG102-24	SG102-24	22 10/100/1000 ports + 2 combo* mini-GBIC ports Compact unmanaged rack-mount switch
Transceivers		
	MGBBX1	1000BASE-BX-20U SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 10 km
	MGBSX1	Gigabit Ethernet SX mini-GBIC SFP transceiver, for multi-mode fiber, 850 nm wavelength, support up to 500 m
	MGBLH1	Gigabit Ethernet LH mini-GBIC SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 40 km
	MGBLX1	1000BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 10 km
	MGBT1	Gigabit Ethernet 1000BASE-T mini-GBIC SFP transceiver, for distances up to 100 m
	MFEFX1	100BASE-FX SFP transceiver, for multimode fiber, 1310 nm wavelength, support up to 2 km
	MFELX1	100BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 15 km
	MFEBX1	100BASE-BX-20U SFP transceiver for single-mode fiber, 1310 nm wavelength, support up to 20 km

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

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High-Performance, Trouble-Free Switches for Your Business Network

Don’t compromise on the performance and reliability of your computers, printers, and other vital network-connected resources. With Cisco 100 Series switches, you can have the quality, peace of mind, and investment protection that comes with business-class Cisco networking, in a small business solution that works right out of the box.

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For More Information

To find out more about Cisco 100 Series Unmanaged Switches, visit: http://www.cisco.com/go/100switches.

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