Cisco 100 Series Switches
Cisco Small Business

For
Small
Business

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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 Switches.

Cisco 100 Series switches deliver powerful network performance 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 Switches

Cisco 100 Series 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 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 Switches

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 optimize power usage to be energy efficient without compromising performance. The switches also have no fans, so they run silently and unobtrusively while lowering energy costs.

- **Support for advanced technologies:** All switches include advanced Cisco traffic-handling features to keep your applications running at peak performance. Integrated QoS intelligence 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. With the Cisco Small Business Investment Protection Program, you can trade up to eligible Cisco switches at any time, and receive credit for up to the full value of your Cisco 100 Series.

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: www.cisco.com/go/smallbiz.

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

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Product Specifications

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

Table 1. Product Specifications

Feature	Description
Performance	
Switching capacity	Cisco SF 100D-05: 1 Gbps
	Cisco SF 100D-08: 1.6 Gbps
	Cisco SF 100D-16: 3.2 Gbps
	Cisco SF 100-16: 3.2 Gbps
	Cisco SF 100-24: 4.8 Gbps
	Cisco SF 102-24: 8.8 Gbps
	Cisco SG 100D-08: 16 Gbps
	Cisco SG 100-16: 32 Gbps
	Cisco SG 100-24: 48 Gbps
	Cisco SG 102-24: 48 Gbps
Forwarding capacity	Forwarding rate in million packets per second (mpps) (based on 64-byte packets):
	Cisco SF 100D-05: 0.74 mpps
	Cisco SF 100D-08: 1.2 mpps
	Cisco SF 100D-16: 2.4 mpps
	Cisco SF 100-16: 2.4 mpps
	Cisco SF 100-24: 3.6 mpps
	Cisco SF 102-24: 6.5 mpps
	Cisco SG 100D-08: 11.9 mpps
	Cisco SG 100-16: 23.8 mpps
	Cisco SG 100-24: 35.7 mpps
	Cisco SG 102-24: 35.7 mpps
Layer 2 Switching	
Head-of-line (HOL) blocking	HOL blocking prevention
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	SF 100D-05: 5 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF 100D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF 100D-16:16 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF 100-16:16 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF 100-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX
	SF 102-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX; with 2 combo mini-GBIC slots
	SG 100D-08: 8 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG 100-16: 16 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports
	SG 100-24: 24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T ports with 2 combo mini-GBIC slots
	SG 102-24: 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
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; 1000BASE-T recommended
LEDs	System, Link/Activity, 100M,* Gigabit,* mini-GBIC*
	if present

Feature	Description
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
Environmental	
Dimensions W x H x D	Cisco SF 100D-05: 3.65 x 1.06 x 3.57 inches (92.6 x 27 x 90.6 mm) Cisco SF 100D-08: 5.12 x 1.06 x 5.12 inches (130 x 27 x 130 mm) Cisco SF 100D-16: 5.12 x 1.52 x 5.12 inches (130 x 38.5 x 130 mm) Cisco SF 100-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) Cisco SF 100-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) Cisco SF 102-24: 17.35 x 1.74 x 7.99 inches (440.6 x 202.82 x 44.32 mm) Cisco SG 100D-08: 5.51 x 1.31 x 5.51 inches (140 x 33.35 x 140 mm) Cisco SG 100-16: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm) Cisco SG 100-24: 17.35 x 1.74 x 7.99 inches (440.6 x 202.82 x 44.32 mm) Cisco SG 102-24: 11 x 1.75 x 6.7 inches (279.4 x 44.5 x 170 mm)
Unit weight	Cisco SF 100D-05: 0.47 lb. (0.22 kg) Cisco SF 100D-08: 0.83 lb. (0.38 kg) Cisco SF 100D-16: 1.03 lb. (0.46 kg) Cisco SF 100-16: 2.79 lb. (1.25 kg) Cisco SF 100-24: 2.91 lb. (1.32 kg) Cisco SF 102-24: 4.93 lb. (2.00 kg) Cisco SG 100D-08: 0.94 lb. (0.43 kg) Cisco SG 100-16: 3.15 lb. (1.43 kg) Cisco SG 100-24: 3.59 lb. (1.63 kg) Cisco SG 102-24: 5.05 lb. (2.3 kg)
Power	SF 100D-05, SF 100D-08: DC 12V, 500mA SF 100D-16, SG 100D-08: DC 12V, 1.0A SF 100-16, SF 100-24, SG 100-16, SG 100-24, SG 102-24: 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	

Ordering Information

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

Table 2.   Ordering Information

Switch Models	
Part Numbers	**Description**
SD205T (SF 100D-05)	5 10/100 ports Unmanaged desktop switch
SD208T (SF 100D-08)	8 10/100 ports Unmanaged desktop switch
SD216T (SF 100D-16)	16 10/100 ports Unmanaged desktop switch
SR216T (SF 100-16)	16 10/100 ports Unmanaged rack-mount switch
SR224T (SF 100-24)	24 10/100 ports Unmanaged rack-mount switch
SR224GT (SF 102-24)	24 10/100 ports + 2 combo mini Gigabit Interface Converter (GBIC) ports (each mini-GBIC port has 10/100/1000 Ethernet port and one mini-GBIC slot, 1 port active at a time) Unmanaged rack-mount switch
SD2008T (SG 100D-08)	8 10/100/1000 ports Unmanaged desktop switch
SR2016T (SG 100-16)	16 10/100/1000 ports Unmanaged rack-mount switch
SR2024T (SG 100-24)	22 10/100/1000 ports + 2 combo mini-GBIC ports (each mini-GBIC port has 10/100/1000 Ethernet port and one mini-GBIC slot, 1 port active at a time) Unmanaged rack-mount switch
SR2024CT (SG 102-24)	22 10/100/1000 ports + 2 combo mini-GBIC ports (each mini-GBIC port has 10/100/1000 Ethernet port and one mini-GBIC slot, 1 port active at a time) Compact unmanaged rack-mount switch
Transceivers	
MGBLH1	Gigabit Ethernet LH mini-GBIC SFP transceiver, for distances up to 500 m or 40 km
MGBSX1	Gigabit Ethernet SX mini-GBIC SFP transceiver, for distances up to 220 or 550 m
MGBT1	Gigabit Ethernet 1000BASE-T mini-GBIC SFP transceiver, for distances up to 100 m
MGBBX1	1000BASE-BX-20U SFP transceiver, for single-mode fiber, 1310 nm wavelength, for distances up to 40 km
MGBLX1	1000BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, for distances up to 10 km

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 switches, visit: www.cisco.com/go/100switches.

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