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Cisco Business 110 Series Unmanaged Switches Datasheet

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Contents

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Affordable, Plug-and-Play Switches for Small Business Networks

Highlights

- Affordable 10/100/1000-Mbps speeds for bandwidth-hungry applications

- Plug-and-play, not IT knowledge required

- 5- to 24-port models that are desktop or rack mountable

- Power over Ethernet models to provide power to access points, IP phones and, other devices

Product overview

These are times of unprecedented change for small businesses. Consumers are more demanding than ever before. Online transactions have accelerated. While this new promises greater reward, it also requires small businesses to accelerate digital transformation. At the same time, employees are increasingly distributed across remote and office locations, and this trend is likely to continue. You need a network solution that provides fast, reliable access to critical cloud-based business applications across a remote and in-office workforce.

Now you can have a high-performance, business-class network with the Cisco® Business 110 Series Unmanaged Switches. These affordable plug-and-play switches are ideal for small offices, workgroups, departments, and growing offices with limited IT know-how and support.

Cisco Business 110 Series Unmanaged Switches, part of the Cisco Business networking portfolio, are a family of affordable switches that provide Gigabit Ethernet connectivity for your small business network. Available in desktop and rack-mount models, these switches are designed to suit any small business with basic network needs and are optimized for power efficiency. They provide robust network connectivity your business demands, as well as added reliability with 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. The Cisco Business 110 Series switches bring the proven reliability and investment protection of Cisco networking solutions to your small business.

Features

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

- **Simple:** Cisco Business 110 Series switches work right out of the box, with plug-and-play capability without software installation and configuration. 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 Business 110 Series switches are also designed to immediately accommodate all of the devices in your network.

- **Flexible deployment:** Designed for small office spaces, Cisco Business 110 Series switches are available in 5-, 8-, 16-, and 24-ports configurations, providing ultimate flexibility for diverse use cases and deployment scenarios. The Cisco Business 110 Series switches are also 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. All switches have no fans, so they run silently and unobtrusively in any workspace.

- **High performance:** Cisco Business 110 Series switches deliver the performance you need to run your business applications, including bandwidth-intensive cloud applications and video services, and to 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 Business 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.

- **Power over Ethernet (PoE):** Cisco Business 110 Series switches are available with PoE ports. This capability simplifies the deployment of IP telephony, wireless, video surveillance, and other IoT 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.

- **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 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 Business 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.

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Specifications

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

Table 1. Specifications for Cisco Business 110 Series Switches

Specifications	Description		
Performance			
Switching capacity and forwarding rate **All switches are wire-speed and nonblocking**	**Model**	**Capacity in millions of packets per second (mpps) (64-byte packets)**	**Switching capacity in gigabits per second (Gbps)**
	CBS110-5T-D	7.4 mpps	10 Gbps
	CBS110-8T-D	11.9 mpps	16 Gbps
	CBS110-8PP-D	11.9 mpps	16 Gbps
	CBS110-16T	23.8 mpps	32 Gbps
	CBS110-16PP	23.8 mpps	32 Gbps
	CBS110-24T	35.7 mpps	48 Gbps
	CBS110-24PP	35.7 mpps	48 Gbps
General			
Head-of-Line (HOL) blocking	HOL blocking prevention		
MAC table	2K addresses for CBS110-5T-D 8K addresses for all other models		
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		
Media-dependent interface	Automatic Media Dependent Interface (MDI) and MDI crossover (MDI-X)		
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		

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Specifications	Description			
Hardware				
Ports	**Model name**	**Total system ports**	**RJ-45 ports**	**Combo ports (RJ-45 + Small Form-factor Pluggable [SFP])**
	CBS110-5T-D	5 Gigabit Ethernet	5 Gigabit Ethernet	–
	CBS110-8T-D	8 Gigabit Ethernet	8 Gigabit Ethernet	–
	CBS110-8PP-D	8 Gigabit Ethernet	8 Gigabit Ethernet	–
	CBS110-16T	16 Gigabit Ethernet	16 Gigabit Ethernet	–
	CBS110-16PP	16 Gigabit Ethernet	16 Gigabit Ethernet	–
	CBS110-24T	24 Gigabit Ethernet	24 Gigabit Ethernet	2 SFP (combo with 2 Gigabit Ethernet)
	CBS110-24PP	24 Gigabit Ethernet	24 Gigabit Ethernet	2 SFP (combo with 2 Gigabit Ethernet)
Power over Ethernet (PoE) 802.3af	**Model**	**Power dedicated to PoE**		**Number of ports that support PoE**
	CBS110-8PP-D	32W		4
	CBS110-16PP	64W		8
	CBS110-24PP	100W		12
LEDs	Power, link/activity (cable diagnostics, loop detection), Gigabit, PoE[*], Max PoE[*] [*]if present			
Cabling type	Category 5e or better			
Mounting options	Desktop, wall-mount or rack mount			
Physical security lock	Kensington lock slot			
Flash	16 MB for CBS110-16T, CBS110-16PP 8 MB for CBS110-24T, CBS110-24PP			
CPU	400 MHz ARM for CBS110-16T, CBS110-16PP, CBS110-24T, CBS110-24PP			
CPU memory	128 MB for CBS110-16T, CBS110-16PP 64 MB for CBS110-24T, CBS110-24PP			

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Specifications	Description			
Packet buffer	All numbers are aggregate across all ports as the buffers are dynamically shared:			
	Model Name		**Packet Buffer**	
	CBS110-5T-D		1 Mbit	
	CBS110-8T-D		2 Mbit	
	CBS110-8PP-D		2 Mbit	
	CBS110-16T		2 Mbit	
	CBS110-16PP		2 Mbit	
	CBS110-24T		2 Mbit	
	CBS110-24PP		2 Mbit	
Supported SFP modules	**SKU**	**Media**	**Speed**	**Maximum distance**
	MGBSX1	Multimode fiber	1000 Mbps	500 m
	MGBLX1	Single-mode fiber	1000 Mbps	10 km
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBT1	UTP cat 5e	1000 Mbps	100 m
Environmental				
Unit dimensions (W x D x H)	**Model name**		**Unit dimensions**	
	CBS110-5T-D		110 x 75 x 30 mm (4.33 x 2.95 x 1.18 in)	
	CBS110-8T-D		160 x 104 x 30 mm (6.30 x 4.07 x 1.18 in)	
	CBS110-8PP-D		160 x 129 x 30 mm (6.30 x 5.06 x 1.18 in)	
	CBS110-16T		279 x 170 x 44 mm (11 x 6.7 x 1.73 in)	
	CBS110-16PP		279 x 170 x 44 mm (11 x 6.7 x 1.73 in)	
	CBS110-24T		279 x 170 x 44 mm (11 x 6.7 x 1.73 in)	
	CBS110-24PP		440 x 203 x 44 mm (17.32 x 7.97 x 1.73 in)	

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Specifications	Description			
Unit weight	**Model name**		**Unit weight**	
	CBS110-5T-D		0.23 kg (0.52 lb)	
	CBS110-8T-D		0.43 kg (0.94 lb)	
	CBS110-8PP-D		0.55 kg (1.2 lb)	
	CBS110-16T		0.97 kg (2.14 lb)	
	CBS110-16PP		1.30 kg (2.87 lb)	
	CBS110-24T		1.56 kg (3.43 lb)	
	CBS110-24PP		2.98 kg (6.57 lb)	
Power	100 to 240V, 50 to 60 Hz, external, universal: CBS110-5T-D, CBS110-8T-D, CBS110-8PP-D 100 to 240V, 50 to 60 Hz, internal, universal: CBS110-16T, CBS110-16PP, CBS110-24T, CBS110-24PP			
Power consumption (worst case)	**Model**	**System power consumption**	**Power consumption (with PoE)**	**Heat dissipation (BTU/hr)**
	CBS110-5T-D	110V=2.74W 220V=2.69W	N/A	9.34
	CBS110-8T-D	110V=4.09W 220V=4.13W	N/A	14.09
	CBS110-8PP-D	110V=5.1W 220V=5.29W	110V=38.02W 220V=38.2W	130.34
	CBS110-16T	110V=11.33W 220V=11.53W	N/A	39.34
	CBS110-16PP	110V=11.16W 220V=11.41W	110V=80.28W 220V=80.38W	274.27
	CBS110-24T	110V=16.3W 220V=16.34W	N/A	55.75
	CBS110-24PP	110V=17.21W 220V=17.29W	110V=135.67W 220V=133.82W	462.93
Green (power efficiency)	Supports IEEE 802.3az on all copper Gigabit Ethernet ports			
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)			

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Specifications	Description			
Storage temperature	–4° to 158°F (–20° to 70°C)			
Operating humidity	10% to 90%, relative, noncondensing			
Storage humidity	5% to 90%, relative, noncondensing			
Acoustic noise and Mean Time Between Failures (MTBF)	Model name	Fan (number)	Acoustic noise	MTBF at 25°C (hours)
	CBS110-5T-D	Fanless	N/A	4,243,002
	CBS110-8T-D	Fanless	N/A	2,066,844
	CBS110-8PP-D	Fanless	N/A	465,437
	CBS110-16T	Fanless	N/A	2,685,092
	CBS110-16PP	Fanless	N/A	1,971,811
	CBS110-24T	Fanless	N/A	524,296
	CBS110-24PP	Fanless	N/A	340,703
Warranty	Limited lifetime			

Package contents

- Cisco Business 110 Series switch
- Power cord or adapter
- Quick start guide
- Mounting kit

Minimum requirements

- Devices supporting 802.3 Ethernet, 802.3u Fast Ethernet, or 802.3ab Gigabit Ethernet
- Cat5e or better Ethernet cable
- Network interface card for each computer

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Ordering information

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

Table 2. Ordering information for Cisco Business 110 Series Unmanaged Switches

Model Name	Product order ID number	Description
Gigabit Ethernet		
CBS110-5T-D	CBS110-5T-D-xx	• 5 10/100/1000 ports • Desktop (not rack-mountable)
CBS110-8T-D	CBS110-8T-D-xx	• 8 10/100/1000 ports • Desktop (not rack-mountable)
CBS110-8PP-D	CBS110-8PP-D-xx	• 8 10/100/1000 ports (4 support PoE with 32W power budget) • Desktop (not rack-mountable)
CBS110-16T	CBS110-16T-xx	• 16 10/100/1000 ports • Rack-mountable
CBS110-16PP	CBS110-16PP-xx	• 16 10/100/1000 ports (8 support PoE with 64W power budget) • Rack-mountable
CBS110-24T	CBS110-24T-xx	• 24 10/100/1000 ports • 2 Gigabit SFP (combo with 2 10/100/1000 ports) • Rack-mountable
CBS110-24PP	CBS110-24PP-xx	• 24 10/100/1000 ports (12 support PoE with 100W power budget) • 2 Gigabit SFP (combo with 2 10/100/1000 ports) • Rack-mountable

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

The -xx in the product order ID number is a country/region specific suffix. For example, the complete PID of CBS110-8T-D for the United States is CBS110-8T-D-NA. Please refer to Table 3 for the suffix to use for your country/region.

Cisco Business products are only available through distributors and not available to order directly from Cisco. Partners should order these products from their preferred distributors. End users should order from their preferred partners.

Accessories like power supply and mounting kit are included with the device and not available to order separately as spare parts. Replacement of malfunctioning accessories can be processed under the warranty with a support case.

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Table 3.   Country/region suffix for product order ID number

Suffix	Country/region
-NA	USA, Canada, Mexico, Colombia, Chile, and rest of Latin America
-BR	Brazil
-AR	Argentina
-EU	European Economic Area, Switzerland, Turkey, Russia, Ukraine, Israel, United Arab Emirates, Egypt, South Africa, Indonesia, Philippines, Vietnam, Thailand, Korea
-UK	United Kingdom, Saudi Arabia, Qatar, Kuwait, Singapore, Hong Kong, Malaysia
-AU	Australia, New Zealand
-CN	China
-IN	India
-JP	Japan
-KR	Korea

The products may also be available in countries or regions not listed above. Not all product models are offered in all countries/regions. For Korea, either the -EU or -KR suffix will be used, depending on product models. Please consult with your local Cisco sales representative or Cisco partner for more details.

Cisco Limited Lifetime Warranty for Cisco Small Business Products

This Cisco Business product comes with a limited lifetime hardware warranty.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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The business areas cover system integration, IT planning consulting, solution design and implementation, IT system operation and maintenance outsourcing, maintenance, video conferencing, cloud services and other IT services, providing customers with end-to-end integrated IT services.

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