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Overview

The Cisco Business 250 Series is the next generation of affordable smart switches that combine powerful performance and reliability with a complete suite of the features you need for a solid business network. These switches provide flexible management options, comprehensive security capabilities and Layer 3 static routing features far beyond those of an unmanaged or consumer-grade switch, at a lower cost than for fully managed switches.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	CBS250-24P-4X
Capacity in millions of packets per second (mpps) (64-byte packets)	95.23
Switching capacity in gigabits per second (Gbps)	128.0
Power dedicated to PoE	195W
Number of ports that support PoE	24
Total system ports	24 Gigabit Ethernet + 4 10 Gigabit Ethernet
RJ-45 ports	24 Gigabit Ethernet

Product Details

-Layer 3 static routing

This capability allows you to segment your network into separate workgroups and communicate across VLANs without degrading application performance. As a result, you can manage internal routing with your switches and dedicate your router to external traffic and security, helping your network run more efficiently.

-Flexible and compact design

The sleek and compact design provide additional deployment flexibility, including outside wiring closet installation such as retail stores, open plan offices, and classrooms without disturbing the environment.

-Peace of mind and investment protection

Cisco Business 250 Series switches offer the reliable performance, investment protection, and peace of mind you expect from a Cisco switch. Complementary one-year access to our Small Business Support Center for ongoing support. Limited lifetime warranty with return to factory replacement keeps your business running smoothly.

Supported Modules

Table 2 shows the supported SFP/SFP+ modules of Cisco Business 250 Series Switches.

SKU	Media	Speed	Maximum distance
MGBSX1	Multimode fiber	1000 Mbps	500 m
MGBLH1	Single-mode fiber	1000 Mbps	40 km
MGBLX1	Single-mode fiber	1000 Mbps	10 km
MGBT1	UTP cat 5e	1000 Mbps	100 m
GLC-SX-MMD	Multimode fiber	1000 Mbps	550 m
GLC-LH-SMD	Single-mode fiber	1000 Mbps	10 km
GLC-BX-U	Single-mode fiber	1000 Mbps	10 km

GLC-BX-D	Single-mode fiber	1000 Mbps	10 km
GLC-TE	UTP cat 5e	1000 Mbps	100 m
SFP-H10GB-CU1M	Copper coax	10 Gig	1 m
SFP-H10GB-CU3M	Copper coax	10 Gig	3 m
SFP-H10GB-CU5M	Copper coax	10 Gig	5 m
SFP-10G-SR	Multimode fiber	10 Gig	26 m - 400 m
SFP-10G-LR	Single-mode fiber	10 Gig	10 km
SFP-10G-SR-S	Multimode fiber	10 Gig	26 m - 400 m
SFP-10G-LR-S	Single-mode fiber	10 Gig	10 km

Get More Information

Do you have any question about the **CBS250-24P-4X** ?

Contact us now via [Live Chat](#) or sales@router-switch.com.

Specification

CBS250-24P-4X Specification	
Feature	Description
Capacity in millions of packets per second (mpps) (64-byte packets)	95.23
Switching capacity in gigabits per second (Gbps)	128.0
Power dedicated to PoE	195W
Number of ports that support PoE	24
Total system ports	24 Gigabit Ethernet + 4 10 Gigabit Ethernet
RJ-45 ports	24 Gigabit Ethernet
Packet buffer	1.5 MB
Unit dimensions (W x D x H)	445 x 299 x 44 mm (17.5 x 11.77 x 1.73 in)
Layer 2 switching	
VLAN	Support for up to 255 active VLANs simultaneously Port-based and 802.1Q tag-based VLANs Management VLAN Guest VLAN
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS.Voice Services Discovery Protocol (VSDP) delivers networkwide zero-touch deployment of voice endpoints and call control devices
Layer 3 routing	

IPv4 routing	Wire-speed routing of IPv4 packets Up to 32 static routes and up to 16 IP interfaces
IPv6 routing	Wire-speed routing of IPv6 packets
Layer 3 interface	Configuration of Layer 3 interface on physical port, LAG, VLAN interface, or loopback interface
Security	
Secure Sockets Layer (SSL)	SSL encrypts all HTTPS traffic, allowing secure access to the browser-based management GUI in the switch
Secure Shell (SSH) Protocol	SSH is a secure replacement for Telnet traffic. Secure Copy (SCP) also uses SSH. SSH v1 and v2 are supported.
IEEE 802.1X (authenticator role)	Remote Authentication Dial-In User Service (RADIUS) authentication, guest VLAN, single/multiple host mode, and single/multiple sessions
STP loopback guard	Provides additional protection against Layer 2 forwarding loops (STP loops)
Secure Core Technology (SCT)	Ensures that the switch will receive and process management and protocol traffic no matter how much traffic is received
Secure Sensitive Data (SSD)	A mechanism to manage sensitive data (such as passwords, keys, and so on) securely on the switch, populating this data to other devices, and secure autoconfig. Access to view the sensitive data as plain text or encrypted is provided according to the user-configured access level and the access method of the user
Trustworthy systems	Trustworthy systems provide a highly secure foundation for Cisco products Run-time defenses (Executable Space Protection [X-Space], Address Space Layout Randomization [ASLR], Built-In Object Size Checking [BOSC])
Port security	Ability to lock source MAC addresses to ports and limit the number of learned MAC addresses
RADIUS	Supports RADIUS authentication for management access. Switch functions as a client.
Storm control	Broadcast, multicast, and unknown unicast
DoS prevention	Denial-of-Service (DoS) attack prevention
Multiple user privilege levels in CLI	Level 1, 7, and 15 privilege levels
Access Control Lists (ACLs)	Support for up to 512 rules Drop or rate limit based on source and destination MAC, VLAN ID or IPv4 or IPv6 address, IPv6 flow label, protocol, port, Differentiated Services Code Point (DSCP)/IP precedence, TCP/UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag; ACL can be applied on both ingress and egress sides Time-based ACLs supported
Flash	256 MB
CPU	800 MHz ARM
DRAM	512 MB
Environmental	
Power	100 to 240V 50 to 60 Hz, internal, universal: CBS250-16T-2G, CBS250-16P-2G, CBS250-24T-4G, CBS250-24PP-4G, CBS250-24P-4G, CBS250-24FP-4G, CBS250-48T-4G, CBS250-48PP-4G, CBS250-48P-4G, CBS250-24T-4X, CBS250-24P-4X, CBS250-24FP-4X, CBS250-48T-4X, CBS250-48P-4X 100 to 240V 50 to 60 Hz, external: CBS250-8T-D, CBS250-8PP-D, CBS250-8T-E-2G, CBS250-8PP-E-2G, CBS250-8P-E-2G, CBS250-8FP-E-2G
Certification	UL (UL 62368), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
Operating temperature	32° to 122°F (0° to 50°C) for CBS250-8T-D and CBS250-8PP-D 23° to 122°F (-5° to 50°C) for other models
Storage temperature	-13° to 158°F (-25° to 70°C)
Operating humidity	10% to 90%, relative, noncondensing

Storage humidity	10% to 90%, relative, noncondensing
Warranty	Limited lifetime

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