SG250X-48P Datasheet

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Overview

The Cisco 250 Series is the next generation of affordable smart switches that combine powerful network performance and reliability with a complete suite of the network features you need for a solid business network. These powerful Fast Ethernet or Gigabit Ethernet switches, with Gigabit or 10 Gigabit Ethernet uplinks, provide multiple management options, sophisticated security capabilities, fine-tuned Quality-of-Service (QoS) and Layer 3 static routing feature 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	SG250X-48P
Processor	X ARM: 800 MHz
RAM	512 MB
Flash Memory	256 MB
Total system ports	48 Gigabit Ethernet + 4 10 Gigabit Ethernet
RJ-45 ports	48 Gigabit Ethernet
Combo ports (RJ-45 + SFP)	2 10 Gigabit Ethernet copper + 2 SFP+

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.

-**IPv6 support:** As the IP network addressing scheme evolves to accommodate more devices, you can have peace of mind that your network is ready. Cisco 250 Series switches provide native support for IPv6 alongside traditional IPv4. With USGv6 and IPv6 Gold Logo certifications, the 250 Series will enable you to take full advantage of IPv6-enabled operating systems and applications in the future, without having to upgrade your network equipment.

-**IP telephony support:** Cisco 250 Series switches include QoS features to prioritize delay-sensitive services such as voice and video, simplify unified communications deployments, and help ensure consistent network performance for all services.

Related Modules

Table 2 shows the related models of Cisco 250 Series Unmanaged Switches.

Model	Description
SF250-24	Cisco SF250-24 24-Port 10 100 Smart Switch
SF250-24P	Cisco SF250-24P 24-Port 10 100 PoE Smart Switch
SF250-48	Cisco SF250-48 48-Port 10 100 Smart Switch
SF250-48HP	Cisco SF250-48HP 48-Port 10 100 PoE Smart Switch
SG250-10P	Cisco SG250-10P 10-Port Gigabit PoE Smart Switch
SG250-18	Cisco SG250-18 18-Port Gigabit Smart Switch
SG250-26	Cisco SG250-26 26-Port Gigabit Smart Switch
SG250-26HP	Cisco SG250-26HP 26-Port Gigabit PoE Smart Switch

SG250-26P	Cisco SG250-26P 26-Port Gigabit PoE Smart Switch
SG250-50	Cisco SG250-50 50-Port Gigabit Smart Switch
SG250-50HP	Cisco SG250-50HP 50-Port Gigabit PoE Smart Switch
SG250-50P	Cisco SG250-50P 50-Port Gigabit PoE Smart Switch
SG250X-24	Cisco SG250X-24 24-Port Gigabit with 4-Port 10-Gigabit Smart Switch
SG250X-24P	Cisco SG250X-24P Gigabit PoE with 4-Port 10-Gigabit Smart Switch

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Specification

SG250X-48P Specification	
Capacity in millions of packets per second (mpps) (64-byte packets)	130.94
Switching capacity in gigabits per second (Gbps)	176.0
Spanning Tree Protocol (STP)	Standard 802.1d spanning tree support Fast convergence using 802.1w (Rapid Spanning Tree Protocol [RSTP]), enabled by default Multiple spanning tree instances using 802.1s (MSTP); 8 instances are supported Per-VLAN Spanning Tree Plus (PVST+) and Rapid PVST+ (RPVST+); 126 instances are supported
Port grouping/link aggregation	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) ● Up to 4 groups ● Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad LAG
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. Auto voice capabilities deliver networkwide zero-touch deployment of voice endpoints and call control devices
Generic VLAN Registration Protocol (GVRP) and Generic Attribute Registration Protocol (GARP)	Protocols for automatically propagating and configuring VLANs in a bridged domain
HOL blocking	Head-Of-Line (HOL) blocking
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
Total system ports	48 Gigabit Ethernet + 4 10 Gigabit Ethernet
RJ-45 ports	48 Gigabit Ethernet
Combo ports (RJ-45 + SFP)	2 10 Gigabit Ethernet copper + 2 SFP+

USB slot	USB Type-A slot on the front panel of the switch for easy file and image management
Buttons	Reset button
Cabling type	Unshielded Twisted Pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5e or better for 1000BASE-T
Mounting Options	Desktop placement, rackmount (excluding SG250-08 and SG250-08HP) and wall-mount
LEDs	System, Link/Act, PoE, Speed
Flash	256 MB
CPU memory	512 MB
Packet buffer	24 Mb
Unit dimensions (W x H x D)	440 x 44 x 350 mm (17.3 x 1.73 x 13.78 in)
Power	100 to 240V 50 to 60 Hz, internal, universal: SF250-24, SF250-24P, SF250-48, SF250-48HP, SG250-26, SG250-26HP, SG250-26P, SG250-50, SG250-50HP, SG250-50P, SG250X-24, SG250X-24P, SG250X-48, SG250X-48P 100 to 240V 50 to 60 Hz, external: SG250-08, SG250-08HP, SG250-10P
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
Operating temperature	32° to 122°F (0° to 50°C)
Storage temperature	-4° to 158°F (-20° to 70°C)
Operating humidity	10% to 90%, relative, noncondensing
Storage humidity	10% to 90%, relative, noncondensing

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