Cisco SG500-28 (SG500-28-K9-G5)

The Cisco 500 Series Stackable Managed Switches provide the ideal technology foundation for demanding business networks. They offer the perfect mix of advanced features needed to ensure the availability of critical applications. Now you can protect business information and provide a solid foundation for your current business applications, as well as those you are planning for the future-all in a package you can afford.

Cisco 500 Series Stackable Managed Switches support:
- High Reliability and Resiliency: Keep your network up and running with advanced redundancy and availability featuresthat reduce downtime and improve network resiliency so your business never slows down.
- Strong Security: Advanced security features protect your business data and keep unauthorized users off your network.- Power-Efficient: A variety of power-saving features across all models provide one of the industry's most extensive energy-efficient switching portfolios.
- Simplified Network Setup and Operations: Intuitive browser-based tools, auto-configuration and discovery, and truestacking make theses switches easy to use and manage, and simplify day-to-day network operations.
- Peace of Mind: All Cisco 500 Series Switches are protected for the life of the product by the Cisco Limited LifetimeHardware Warranty, including next-business-day advance replacement (where available).

Ethernet Connectivity
- Choose from Fast Ethernet, Gigabit Ethernet and optional 10 Gigabit Ethernet connectivity.
- Cisco 500 models offer one or five Gigabit Ethernet expansion slots, and the Cisco 500X models offer 10 GigabitEthernet expansion slots.

Advanced Features
- Strong security features such as access control lists (ACLs), guest virtual LANs (VLANs), encrypted managementdata, and other advanced network defense features safeguard customer networks.
- IPv6 support allows you to move up to the next generation of networking applications and operating systems withoutan extensive equipment upgrade.
- Quality of service (QoS) on all models prioritizes network traffic to keep critical network applications running at topperformance.
- Layer 3 static (500 models) and dynamic (500X models) IP routing provide advanced traffic management capabilitiesto segment networks.

Energy Efficiency and Design
- Power-saving technology, including Energy Efficient Ethernet, reduces power consumption with the ability to entersleep mode, turn off unused ports, and adjust power as needed.
- More ports per Gigabit Ethernet switch includes 28- and 52-port Gigabit Ethernet switches (instead of 20 or 44 portswith four shared ports, as in traditional devices).

Management and Investment Protection
- Intuitive graphical interfaces, remote management capabilities, Textview command-line interface, Cisco ConfigurationAssistant, and automated deployment tools simplify setup and configuration.
- Deploy an end-to-end voice network dynamically using a combination of Cisco Discovery Protocol (CDP), Link LayerDiscovery Protocol-Media Endpoint Devices (LLDP-MED), Auto Smartports, and Voice Service Discovery Protocol (VSDP).
- All switches come with a limited lifetime warranty with next-business-day advance replacement (where available), limited lifetime warranty on fans and power supplies, free software fixes for the term of the warranty, and one year of technical support to protect your investment.

Main specifications:

Management features
Switch type:	Managed network switch
Switch layer:	L3
MIB support:	Y
Quality of Service (QoS) support:	Y

Ports & interfaces
Basic switching RJ-45 Ethernet ports quantity:	28
Combo SFP ports quantity:	2
SFP/SFP+ slots quantity:	2
SFP module slots quantity:	2
Copper ethernet cabling technology:	1000BASE-T,100BASE-TX,10BASE-T
Gigabit Ethernet (copper) ports quantity:	28
DC-in jack:	Y

Networking

Networking standards:	IEEE 802.1D,IEEE 802.1Q,IEEE 802.1s,IEEE 802.1w,IEEE 802.1x,IEEE 802.3,IEEE 802.3ab,IEEE 802.3ad,IEEE 802.3u,IEEE 802.3x,IEEE 802.3z
Head-of-line (HOL) blocking:	Y
Flow control support:	Y
Port mirroring:	Y
Link aggregation:	Y
Broadcast storm control:	Y
Rate limiting:	Y
DHCP client:	Y
Spanning tree protocol:	Y
VLAN support:	Y

Data transmission

MAC address table:	16000 entries
Switching capacity:	72 Gbit/s
Supported data transfer rates:	10/100/1000Mbps
Number of VLANs:	4096
Number of queues:	4
Maximum data transfer rate:	1 Gbit/s
Jumbo frames support:	Y

Security

Security algorithms:	802.1x RADIUS,MD5
SSH/SSL support:	Y

Protocols

Supported network protocols:	TCP/IP, ARP, DHCP, HTTP, UDP, ICMP, IPv6

Design

Colour of product:	Black
LED indicators:	Link
Certification:	UL, CSA, CE, FCC

Performance

Stackable:	Y
Built-in processor:	ARM
Processor frequency:	800 MHz
Internal memory:	256 MB
Flash memory:	32 MB
Firmware upgradeable:	Y
Packet buffer memory:	8 MB
Mean time between failures (MTBF):	141161 h

Power

Power consumption (typical):	23.6 W
AC input voltage:	100-240 V
AC input frequency:	47/63 Hz
Input current:	0.262 A

Power over Ethernet (PoE)
Power over Ethernet (PoE):	N

System requirements
Minimum system requirements:	Mozilla Firefox 3.6, Microsoft Internet Explorer 7 Ethernet Cat 5
Compatible operating systems:	Microsoft Windows, Linux, Mac OS X

Operational conditions
Operating temperature (T-T):	0 - 40 °C
Storage temperature (T-T):	-20 - 70 °C
Operating relative humidity (H-H):	10 - 90 %
Storage relative humidity (H-H):	10 - 90 %

Weight & dimensions
Width:	440 mm
Depth:	257 mm
Height:	44 mm
Weight:	3400 g

Packaging content
Cables included:	AC,Serial
User guide:	Y

Other features
Packet transfer speed:	41.67 mpps
Power LED:	Y