Data Sheet

Cisco 350X Series Stackable Managed Switches

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Managed Switches That Provide the Ideal Combination of Features and Affordability

To stay ahead in a competitive marketplace, small businesses need to make every dollar count. That means getting the most value from your technology investments, but it also means making sure that employees have fast, reliable access to the business tools and information they need. Every minute an employee waits for an unresponsive application – and every minute your network is down – has an impact on your bottom line. The importance of maintaining a strong and dependable business network only grows as your business adds more employees, applications, and network complexity.

When your business needs advanced security and features but affordability and value is key, you're ready for the new generation of Cisco Small Business managed switches: The Cisco 350X Series.

Cisco 350X Series Stackable Managed Switches

The Cisco® 350X Series Stackable Managed Switches (Figure 1) are a new line of stackable managed Ethernet switches that provide the rich capabilities you need to support a more demanding network environment at a very affordable price. The 350X models provide 8 to 48 ports of Gigabit, Multigigabit Ethernet, or 10-Gigabit speed. The 10-Gigabit models provide 8, 12, 24, or 48 ports of all 10-Gigabit Ethernet, providing a solid foundation and more than enough bandwidth for your business applications today and in the future. These switches are easy to deploy and manage without a large IT staff.



Figure 1.
Cisco 350X Series Stackable Managed Switches

Cisco 350X Series switches are designed to protect your technology investment as your business grows. Unlike switches that claim to be stackable but have elements that are administered and troubleshot separately, the Cisco 350X Series provides true stacking capability, allowing you to configure, manage, and troubleshoot multiple physical switches as a single device and more easily expand your network.

A true stack delivers a unified data and control plane, in addition to management plane, providing flexibility, scalability, and ease of use because the stack of units operates as a single entity. The switches also protect your technology investment with an enhanced warranty, dedicated technical support, and the ability to upgrade equipment in the future. Overall, the Cisco 350X Series provides the ideal technology foundation for a growing business.

Features and Benefits

Cisco 350X Series switches provide the advanced feature set that growing businesses and high-bandwidth applications and technologies require. These switches can improve the availability of your critical applications, protect your business information, and optimize your network bandwidth to more effectively deliver information and support applications.

High-Performance 10 Gigabit Ethernet

Cisco 350X Series switches break the barrier of 10 Gigabit Ethernet adoption by providing affordable and powerful features of for growing small and medium businesses networks. With the 10-Gigabit ports, in both copper and fiber, you can easily and cost-effectively enable 10G connections to servers and network storage devices with standard RJ45 Ethernet cable. You can also aggregate 10G SFP+ fiber connections to build a high-performance backbone to dramatically increase the overall speed of your network.

Multigigabit Performance

Network needs are changing quickly. Thanks to evolving wireless standards and the rising number of wireless devices, keeping up with data rates and growing traffic can be a challenge. Your traditional Ethernet infrastructure can support speeds up to 1 Gigabit per second (Gbps), but competing today requires much more capacity. One option is completely replacing your older cabling infrastructure and upgrading your hardware. But wouldn't it be better to increase network speed and traffic capacity in a way that's quick, inexpensive, and efficient?

Cisco's Multigigabit Ethernet switches offer just that: an easy-to-deploy, budget-friendly solution that allows you to increase network speed and bandwidth using your existing cables. By partnering with other industry leaders to form the NBASE-T Alliance, Cisco uses NBASE-T technology to help you get more out of your existing infrastructure. Save time and money by avoiding upgrades and extending the life of your installed cable plants. And discover the benefits of meeting consumer demand for increased bandwidth and speeds without a large initial investment.

Multigigabit Ethernet technology uses capabilities in your existing cabling infrastructure to meet bandwidth requirements and provide up to five times the performance. The technology enables intermediate data rates of 2.5 and 5 Gbps to ease the jump between traditional rates of 1 Gbps and 10 Gbps. These intermediate rates run on most installed cables and preserve older UTP wiring, which is good for 802.11ac wireless LAN applications.

The technology also supports Power over Ethernet (PoE) forms, including PoE+ and 6oW PoE. Cisco Multigigabit Ethernet switches help you avoid having to run multiple cables between switches and access points and let your networks welcome next-generation traffic speeds and data rates.

Easy configuration and management

Cisco 350X Series switches are designed to be easy to use and manage by small buinsess customers or the partners that serve them.

- Smart Network Application (SNA) is an innovative network-level monitoring and management tool embedded in the Cisco 100 to 500 Series switches. It can discover network topology, display link status, monitor events, apply configurations, and upgrade software images across multiple switches in the network.
- The FindIT Network Manager and Probe are designed to manage Cisco 100 to 500 Series switches, routers, and
 wireless access points. They let you proactively manage the network instead of just reacting to events. Cisco 250
 Series switches support the embedded FindIT Network Probe, eliminating the need to set up a separate hardware
 or virtual machine on site. For more information, visit https://www.cisco.com/c/en/us/products/cloud-systems-management/findit-network-management/index.html.
- The FindIT Network Discovery Utility works through a simple toolbar on the user's web browser to discover Cisco devices on the network and display basic device information, inventory, and new firmware updates to aid in the configuration and speed the deployment of Cisco Small Business products. For more information, visit https://www.cisco.com/c/en/us/products/cloud-systems-management/small-business-findit-network-discovery-utility/index.html.
- Simple or advanced-mode graphic user interfaces reduce the time required to deploy, troubleshoot, and manage the network. Configuration wizards simplify the most common configuration tasks and provide the ultimate tool for anyone to set up and manage the network.
- Cisco Smartports technology provides more advanced capabilities and hands-on control by automatically configuring ports with specific levels of security, QoS, and availability according to the type of connected device, based on Cisco best practices and pretested configurations. The Auto Smartports feature automatically applies the intelligence delivered through the Smartports roles to the port based on the device types discovered over Cisco Discovery Protocol or LLDP-MED. This capability facilitates zero-touch deployments.
- The USB port on the front panel of the switch enables easy image and configuration transfer for faster deployment or upgrades.

Power over Ethernet Plus (PoE+) and 6oW PoE

PoE technology simplifies the deployment of IP phones and wireless access points by allowing you to connect and power network endpoints over a single Ethernet cable, without having to install separate power supplies. The 350X Series switches support 15W Power over Ethernet (PoE) and 30W Power over Ethernet Plus (PoE+). The switches also support 60W PoE on selected ports to power compact switches, high-power wireless access points, or connected lighting. The PoE power is intelligently managed in a way such that only the amount of power needed by endpoints is delivered to it and not wasted. As a result, the switches can support devices that require more power, such as 802.11ac wireless access points, video-based IP phones, surveillance cameras, and more. The PoE features in the 350X Series switches are also fully backward compatible with 802.3af PoE, 802.3at PoE+, and Cisco legacy PoE protocols.

High Reliability and Resiliency

In a growing business where availability 24 hours a day, 7 days a week is critical, you need to assure that employees can always access the data and resources they need. In these environments, stackable switches can play an important role in eliminating downtime and improving network resiliency. For example, if a switch within a Cisco 350X Series stack fails, another switch immediately takes over, keeping your network up and running. You can also replace individual devices in the stack without taking your network offline or affecting employee productivity.

The Cisco 350X Series also supports dual images, allowing you to perform software upgrades without having to take the network offline or worry about the network going down during the upgrade.

Simplified IT Operation

Cisco 350X Series switches help optimize your IT operations with built-in features that simplify and streamline day-to-day network operation:

- True stacking allows you to troubleshoot, configure, and manage multiple physical switches as a single entity.
- Cisco switches use common chipsets/software across all switching portfolios, so all Cisco switches within a category support the same feature set, making it easier to manage and support all switches across the network.

True Stacking

Some switches claim to support stacking but they only support "clustering" or "virtual stacking," which means each switch must still be managed and configured individually. They cannot be managed as a single entity or device. Cisco 35oX Series switches provide true horizontal stacking, enabling you to configure, manage, and troubleshoot multiple physical switches as a single device, with a single IP address, for up to 4 units and up to 208 ports.

A true horizontal stack delivers a unified data and control plane, in addition to management plane, providing flexibility, scalability, and ease of use because the stack of units operate as a single entity constituting all the ports of the stack members. This capability can radically reduce complexity in a growing network environment while improving the resiliency and availability of network applications. True stacking also provides other cost savings and administrative benefits through features such as cross-stack QoS, VLANs, LAGs, and port mirroring, which clustered switches can't support.

Strong Security

Cisco 350X Series switches provide the advanced security features you need to protect your business data and keep unauthorized users off the network:

- Embedded Secure Sockets Layer (SSL) encryption protects management data traveling to and from the switch.
- Extensive Access Control Lists (ACLs) restrict sensitive portions of the network to keep out unauthorized users and guard against network attacks.
- Guest VLANs let you provide Internet connectivity to nonemployee users while isolating critical business services from guest traffic.

- Support for advanced network security applications such as IEEE 802.1X port security tightly limits access to specific segments of your network. Web-based authentication provides a consistent interface to authenticate all types of host devices and operating systems, without the complexity of deploying IEEE 802.1X clients on each endpoint.
- Advanced defense mechanisms, including dynamic Address Resolution Protocol (ARP) inspection, IP Source
 Guard, and Dynamic Host Configuration Protocol (DHCP) snooping, detect and block deliberate network attacks.
 Combinations of these protocols are also referred to as IP-MAC port binding (IPMB).
- IPv6 First Hop Security extends the advanced threat protection to IPv6. This comprehensive security suite includes ND inspection, RA guard, DHCPv6 guard, and neighbor binding integrity check, providing unparalleled protection against a vast range of address spoofing and man-in-the-middle attacks on IPv6 networks.
- Time-based ACLs and port operation restrict access to the network during pre-designated times such as business hours.
- Uniform MAC address-based security can be applied automatically to mobile users as they roam between wireless access points.
- Secure Core Technology (SCT) helps ensure that the switch is able to process management traffic in the face of a Denial-of-Service (DoS) attack.
- Private VLAN Edge (PVE) provides Layer 2 isolation between devices on the same VLAN.
- Storm control can be applied to broadcast, multicast, and unknown unicast traffic.
- Protection of management sessions occurs using RADIUS, TACACS+, and local database authentication as well as secure management sessions over SSL, SSH, and SNMPv₃.
- DoS attack prevention maximizes network uptime in the presence of an attack.

IPv6 Support

As the IP address scheme evolves to accommodate a growing number of network devices, the Cisco 350X Series can support the transition to the next generation of networking and operating systems such as Windows 7, Vista, and Linux. These switches continue to support previous-generation IPv4, allowing you to evolve to the new IPv6 standard at your own pace, and helping ensure that your current network will continue to support your business applications in the future. Cisco 350X Series switches have successfully completed rigorous IPv6 testing and have received the USGv6 and IPv6 Gold certification.

Advanced Layer 3 Traffic Management

The Cisco 350X Series enables a more advanced set of traffic management capabilities to help growing businesses organize their networks more effectively and efficiently. The switches provide static LAN Layer 3 routing, allowing you to segment your network into workgroups and communicate across VLANs without degrading application performance. With these capabilities, you can boost the efficiency of your network by offloading internal traffic-handling tasks from your router and allowing it to manage primarily external traffic and security. You can minimize the need to manually configure routing devices and simplify the ongoing operation of the network.

Power Efficiency

The Cisco 350X Series integrates a variety of power-saving features across all models, providing the industry's most extensive energy-efficient switching portfolio. These switches are designed to conserve energy by optimizing power use, which helps protects the environment and reduce your energy costs. They provide an eco-friendly network solution without compromising performance. Cisco 350X Series switches feature:

- Support for 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
- The latest application-specific integrated circuits (ASICs), which use low-power 65/40-nanometer technology and low-power, high-performance ARM CPUs
- Automatic power shutoff on ports when a link is down
- LEDs that can be turned off to save power
- Embedded intelligence to adjust signal strength based on the length of the connecting cable

Networkwide Automatic Voice Deployment

Using a combination of Cisco Discovery Protocol, LLDP-MED, Auto Smartports, and Voice Services Discovery Protocol (or VSDP, a unique Cisco protocol), customers can deploy an end-to-end voice network dynamically. The switches in the network automatically converge around a single voice VLAN and QoS parameters and then propagate them out to the phones on the ports, where they are discovered. For example, automated voice VLAN capabilities let you plug any IP phone (including third-party phones) into your IP telephony network and receive an immediate dial tone. The switch automatically configures the device with the right VLAN and QoS parameters to prioritize voice traffic.

Peace of Mind and Investment Protection

Cisco 350X Series switches offer the reliable performance and peace of mind you expect from a Cisco switch. When you invest in the Cisco 350 Series, you gain the benefit of:

- Limited lifetime warranty with Next-Business-Day (NBD) advance replacement (where available; otherwise same day ship)
- A solution that has been rigorously tested to help ensure optimal network uptime to keep employees connected to primary resources and productive
- A solution designed and tested to easily and fully integrate with other Cisco voice, unified communications, security, and networking products, as part of a comprehensive technology platform for your business

Cisco Limited Lifetime Hardware Warranty

Cisco 350X Series switches offer a limited lifetime hardware warranty with NBD advance replacement (where available; otherwise same day ship) and a limited lifetime warranty for fans and power supplies.

In addition, Cisco offers software application updates for bug fixes for the warranty term and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to https://software.cisco.com/download/navigator.html.

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

World-Class Service and Support

Your time is valuable, especially when you have a problem affecting your business. Cisco 350X Series switches are backed by the Cisco SMARTnet® Total Care, which provides affordable peace-of-mind coverage. This subscription-based service helps you protect your investment and derive maximum value from Cisco SMB products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates and access to the Cisco Support Center, and it extends technical service to three years.

Cisco SMB products are supported by professionals in the Cisco Support Center, a dedicated resource for small business customers and networks, with locations worldwide that are specifically trained to understand your needs. You also have access to extensive technical and product information through the Cisco Support Community, an online forum that enables you to collaborate with your peers and reach Cisco technical experts for support information.

Product Specifications

Table 1 describes product specifications.

Table 1. Specifications

Feature	Description				
Performance					
Switching capacity and forwarding rate	Product Name	Capacity in Mpps (64-Byte Packets)	Switching Capacity (Gbps)		
All switches are wire speed and non-blocking	SG ₃₅ oX-8PMD	29.76	80		
	SG350X-24	95.23	128		
	SG350X-24P	95.23	128		
	SG350X-24MP	95.23	128		
	SG350X-24PD	104.16	140		
	SG ₃₅ oX-48	130.94	176		
	SG350X-48P	130.94	176		
	SG350X-48MP	130.94	176		
	SG350XG-2F10	178.56	240		
	SG350XG-24F	357.12	480		
	SG350XG-24T	357.12	480		

Feature	Description			
	SG ₃₅ oXG-48T	714.24	960	
	SX350X-08	119.05	160	
	SX350X-12	178.56	240	
	SX350X-24F	357.12	480	
	SX350X-24	357.12	480	
	SX350X-52	755.81	1040	
Layer 2 switching				
Spanning Tree Protocol		ng tree support Bo2.1w (Rapid Spanning Tree Protocol stances using 8o2.1s (MSTP); 8 instan		
Port grouping/link aggregation	• Up to 8 groups	Link Aggregation Control Protocol (L		
VLAN	Support for up to 4094 active VLANs simultaneously; port-based and 802.1Q tag-based VLANs; MAC-based VLAN Management VLAN Private VLAN with promiscuous, isolated, and community port Guest VLAN, unauthenticated VLAN, protocol-based VLAN, IP subnet-based VLAN, CPE VLAN Dynamic VLAN assignment using RADIUS server along with 802.1x client authentication			
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			
Multicast TV VLAN	Multicast TV VLAN allows the single multicast VLAN to be shared in the network while subscribers remain in separate VLANs. This feature is also known as multicast VLAN registration (MVR)			
Q-in-Q	VLANs transparently cro	ss over a service provider network wh	ile isolating traffic among customers	
GVRP/GARP	9	on Protocol (GVRP) and Generic Attril gation and configuration of VLANs in a		
Unidirectional Link Detection (UDLD)		connection to detect unidirectional ling loops and blackholing of traffic in		
DHCP relay at Layer 2	Relay of DHCP traffic to I	DHCP server in a different VLAN. Wor	ks with DHCP option 82	
IGMP (versions 1, 2, and 3) snooping	Internet Group Management Protocol (IGMP) limits bandwidth-intensive multicast traffic to only the requesters; supports 4K multicast groups (source-specific multicasting is also supported)			
IGMP querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router			
HOL blocking	Head-of-line (HOL) blocking			
Layer 3				
IPv4 routing	Wirespeed routing of IPv4 packets			
	Up to 8K static routes and up to 256 IP interfaces			

Feature	Description	
Wirespeed IPv6 static routing	Up to 4K static routes and up to 200 IPv6 interfaces	
Layer 3 interface	Configuration of Layer 3 interface on physical port, LAG, VLAN interface, or loopback interface	
CIDR	Support for classless interdomain routing	
DHCP server	Switch functions as an IPv4 DHCP server serving IP addresses for multiple DHCP pools/scopes Support for DHCP options	
DHCP relay at Layer 3	Relay of DHCP traffic across IP domains	
User Datagram Protocol (UDP) relay	Relay of broadcast information across Layer 3 domains for application discovery or relaying of BOOTP/DHCP packets	
Stacking		
Hardware stack	Up to 4 units in a stack. Up to 208 ports managed as a single system with hardware failover	
High availability	Fast stack failover delivers minimal traffic loss. Support link aggregation across multiple units in a stack	
Plug-and-play stacking configuration/management	Master/backup for resilient stack control Auto-numbering Hot swap of units in stack Ring and chain stacking options, auto-stacking port speed, flexible stacking port options	
High-speed stack interconnects	Cost-effective high-speed 10G fiber and copper interfaces. Support LAG as stacking interconnects for even higher bandwidth	
Security		
SSH	SSH is a secure replacement for Telnet traffic. SCP also uses SSH. SSH versions 1 and 2 are supported	
SSL	Secure Sockets Layer (SSL) encrypts all HTTPS traffic, allowing secure access to the browser-based management GUI in the switch	
IEEE 802.1X (authenticator role)	RADIUS authentication and accounting, MD ₅ hash, guest VLAN, unauthenticated VLAN, single/multiple host mode, and single/multiple sessions Supports time-based 802.1X dynamic VLAN assignment	
Web-based authentication	Web-based authentication provides network admission control through web browser to any host devices and operating systems	
STP BPDU Guard	A security mechanism to protect the networks from invalid configurations. A port enabled for Bridge Protocol Data Unit (BPDU) Guard is shut down if a BPDU message is received on that port. This avoids accidental topology loops	
STP Root Guard	This prevents edge devices not in the network administrator's control from becoming Spanning Tree Protocol root nodes	
DHCP snooping	Filters out DHCP messages with unregistered IP addresses and/or from unexpected or untrusted interfaces. This prevents rogue devices from behaving as a DHCP server	
IP Source Guard (IPSG)	When IP Source Guard is enabled at a port, the switch filters out IP packets received from the port if the source IP addresses of the packets have not been statically configured or dynamically learned from DHCP snooping. This prevents IP address spoofing	

Feature	Description	
Dynamic ARP Inspection (DAI)	The switch discards ARP packets from a port if there are no static or dynamic IP/MAC bindings or if there is a discrepancy between the source or destination address in the ARP packet. This prevents man-in-the-middle attacks	
IP/MAC/Port Binding (IPMB)	The preceding features (DHCP snooping, IP Source Guard, and Dynamic ARP inspection) work together to prevent DoS attacks in the network, thereby increasing network availability	
Secure Core Technology (SCT)	Makes sure 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 plaintext or encrypted is provided according to the user-configured access level and the access method of the user	
Private VLAN	Private VLAN provides security and isolation between switch ports, which helps ensure that users cannot snoop on other users' traffic; supports multiple uplinks	
Port security	Ability to lock source MAC addresses to ports and limit the number of learned MAC addresses	
RADIUS/TACACS+	Supports RADIUS and TACACS authentication. Switch functions as a client	
RADIUS accounting	The RADIUS accounting functions allow data to be sent at the start and end of services, indicating the amount of resources (such as time, packets, bytes, and so on) used during the session	
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	
ACLs	Support for up to 2K entries	
	Drop or rate limit based on source and destination MAC, VLAN ID or IP address, protocol, port, DSCP/IP precedence, TCP/User Datagram Protocol (UDP) source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, Internet Group Management Protocol (IGMP) packets, TCP flag; ACL can be applied on both ingress and egress sides	
	Time-based ACLs supported	

Feature	Description		
Quality of service			
Priority levels	8 hardware queues		
Scheduling	Strict priority and Weighted Round-Robin (WRR)		
Class of service	Port based; 802.1p VLAN priority based; IPv4/v6 IP precedence/ToS/DSCP based; DiffServ; classification and remarking ACLs, trusted QoS Queue assignment based on Differentiated Services Code Point (DSCP) and class of service (802.1p/CoS)		
Rate limiting	Ingress policer; egress shaping and ingress rate control; per VLAN, per port, and flow base; 2R ₃ C policing		
Congestion avoidance	A TCP congestion avoidance algorithm is required to minimize and prevent global TCP loss synchronization		
Standards			
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad Link Aggregation Control Protocol, IEEE 802.3z Gigabit Ethernet, IEEE 802.3ae 10 Gbit/s Ethernet over fiber for LAN, IEEE 802.3an 10GBase-T 10 Gbit/s Ethernet over copper twisted pair cable, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP), IEEE 802.1Q/p VLAN, IEEE 802.1w Rapid STP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, IEEE 802.1AB Link Layer Discovery Protocol, IEEE 802.3az Energy Efficient Ethernet, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 826, RFC 879, RFC 896, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 920, RFC 922, RFC 950, RFC 951, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1213, RFC 1215, RFC 1286, RFC 1350, RFC 1442, RFC 1451, RFC 1493, RFC 1533, RFC 1541, RFC 1542, RFC 1573, RFC 1624, RFC 1643, RFC 1700, RFC 1757, RFC 1867, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2030, RFC 2131, RFC 2132, RFC 2233, RFC 2576, RFC 2616, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 3416, RFC 4330		
IPv6			
IPv6	IPv6 host mode IPv6 over Ethernet dual IPv6/IPv4 stack IPv6 Neighbor and Router Discovery (ND), IPv6 Stateless Address Autoconfiguration, path MTU Discovery Duplicate Address Detection (DAD) ICMPv6 IPv6 over IPv4 network with ISATAP tunnel support USGv6 and IPv6 Gold Logo certified		
IPv6 QoS	Prioritize IPv6 packets in hardware		
IPv6 ACL	Drop or rate limit IPv6 packets in hardware		
IPv6 first hop security	RA guard ND inspection DHCPv6 guard Neighbor binding table (snooping and static entries) Neighbor binding integrity check		
Multicast listener discovery (MLD v1/2) snooping	Deliver IPv6 multicast packets only to the required receivers		

Feature	Description			
IPv6 applications	Web/SSL, Telnet Server/SSH, Ping, Traceroute, SNTP, TFTP, SNMP, RADIUS, Syslog, DNS client, DHCP Client, DHCP Autoconfig, IPv6 DHCP Relay, TACACS			
IPv6 RFC supported	RFC 4443 (which obsoletes RFC 2463): ICMPv6 RFC 4291 (which obsoletes RFC 3513): IPv6 address architecture RFC 4291: IP Version 6 Addressing Architecture RFC 2460: IPv6 Specification RFC 4861 (which obsoletes RFC 2461): Neighbor Discovery for IPv6 RFC 4862 (which obsoletes RFC 2462): IPv6 Stateless Address Autoconfiguration RFC 1981: Path MTU Discovery RFC 4007: IPv6 Scoped Address Architecture RFC 3484: Default address selection mechanism RFC 5214 (which obsoletes RFC 4214): ISATAP tunneling RFC 4293; MIB IPv6: Textual Conventions and General Group RFC 3595; Textual Conventions for IPv6 Flow Label			
Management				
Web user interface	Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS) Supports simple and advanced mode, configuration, wizards, customizable dashboard, system maintenance, monitoring, online help, and universal search			
Smart Network Application	Smart Network Application (SNA) is an innovative network-level monitoring and management tool embedded in Cisco 100 to 500 Series switches. It can discover network topology, display link status, monitor events, apply configurations, and upgrade software images across multiple switches in the network (Note: Management of your network using Smart Network Application requires the use of either a 250, 350, 350X, or 550X Series switch model as a part of your network)			
SNMP	SNMP versions 1, 2c, and 3 with suppor	rt for traps, and SNMP v ₃ User-based Security Model (USM)		
Standard MIBs	Ildp-MIB Ildpextdot1-MIB Ildpextdot3-MIB Ildpextmed-MIB rfc2674-MIB rfc2575-MIB rfc2573-MIB rfc2013-MIB rfc2012-MIB rfc2011-MIB RFC-1212 RFC-1215 SNMPv2-CONF SNMPv2-TC p-bridge-MIB q-bridge-MIB	rfc2668-MIB rfc2737-MIB rfc2925-MIB rfc3621-MIB rfc4668-MIB rfc4670-MIB trunk-MIB tunnel-MIB udp-MIB draft-ietf-bridge-8021x-MIB draft-ietf-bridge-rstpmib-04-MIB draft-ietf-hubmib-etherif-mib-v3-00-MIB draft-ietf-syslog-device-MIB ianaaddrfamnumbers-MIB ianaifty-MIB ianaprot-MIB inet-address-MIB		

Forting.	Description			
Feature	Description			
	rfc1389-MIB	ip-forward-MIB		
	rfc1493-MIB	ip-MIB		
	rfc1611-MIB	RFC1155-SMI		
	rfc1612-MIB	RFC1213-MIB		
	rfc1850-MIB	SNMPv2-MIB		
	rfc1907-MIB	SNMPv2-SMI		
	rfc2571-MIB	SNMPv2-TM		
	rfc2572-MIB	RMON-MIB		
	rfc2574-MIB	rfc1724-MIB		
	rfc2576-MIB	dcb-raj-DCBX-MIB-1108-MIB		
	rfc2613-MIB	rfc1213-MIB		
	rfc2665-MIB	rfc1757-MIB		
Private MIBs	CISCOSB-IIdp-MIB	CISCOSB-iprouter-MIB		
	CISCOSB-brgmulticast-MIB	CISCOSB-ipv6-MIB		
	CISCOSB-bridgemibobjects-MIB	CISCOSB-mnginf-MIB		
	CISCOSB-bonjour-MIB	CISCOSB-Icli-MIB		
	CISCOSB-dhcpcl-MIB	CISCOSB-localization-MIB		
	CISCOSB-MIB	CISCOSB-mcmngr-MIB		
	CISCOSB-wrandomtaildrop-MIB	CISCOSB-localization-MIB		
	CISCOSB-traceroute-MIB	CISCOSB-mcmngr-MIB		
	CISCOSB-telnet-MIB	CISCOSB-mng-MIB		
	CISCOSB-stormctrl-MIB	CISCOSB-physdescription-MIB		
	CISCOSBssh-MIB	CISCOSB-PoE-MIB		
	CISCOSB-socket-MIB	CISCOSB-protectedport-MIB		
	CISCOSB-sntp-MIB	CISCOSB-rmon-MIB		
	CISCOSB-smon-MIB	CISCOSB-rs232-MIB		
	CISCOSB-phy-MIB	CISCOSB-SecuritySuite-MIB		
	CISCOSB-multisessionterminal-MIB	CISCOSB-snmp-MIB		
	CISCOSB-mri-MIB	CISCOSB-specialbpdu-MIB		
	CISCOSB-jumboframes-MIB	CISCOSB-banner-MIB		
	CISCOSB-gvrp-MIB	CISCOSB-syslog-MIB		
	CISCOSB-endofmib-MIB	CISCOSB-TcpSession-MIB		
	CISCOSB-dot1x-MIB	CISCOSB-traps-MIB		
	CISCOSB-deviceparams-MIB	CISCOSB-trunk-MIB		
	CISCOSB-cli-MIB	CISCOSB-tuning-MIB		
	CISCOSB-cdb-MIB	CISCOSB-tunnel-MIB		
	CISCOSB-brgmacswitch-MIB	CISCOSB-ulan MIR		
	CISCOSB-3sw2swtables-MIB	CISCOSB inchded MIR		
	CISCOSB-smartPorts-MIB	CISCOSB-ipstdacI-MIB		
	CISCOSB-tbi-MIB	CISCOSB-eee-MIB		
	CISCOSB-macbaseprio-MIB	CISCOSB digitalkovmanaga MIR		
	CISCOSB-env_mib-MIB	CISCOSB cooling is MIR		
	CISCOSB-policy-MIB	CISCOSB-qosclimib-MIB		

Feature	Description			
reatore	CISCOSB-sensor-MIB CISCOSB-aaa-MIB CISCOSB-application-MIB CISCOSB-bridgesecurity-MIB CISCOSB-copy-MIB CISCOSB-CpuCounters-MIB CISCOSB-Custom1BonjourService-MIB CISCOSB-dhcp-MIB CISCOSB-dhcp-MIB CISCOSB-dhrp-MIB CISCOSB-dff-MIB CISCOSB-drscl-MIB CISCOSB-file-MIB CISCOSB-file-MIB CISCOSB-file-MIB CISCOSB-file-MIB CISCOSB-interfaces-MIB CISCOSB-interfaces-MIB CISCOSB-ip-MIB CISCOSB-iprouter-MIB CISCOSB-iprouter-MIB CISCOSB-ipv6-MIB CISCOSB-mnginf-MIB CISCOSB-lcli-MIB	CISCOSB-tbp-MIB CISCOSMS-stack-MIB CISCOSMS-MIB CISCOSB-secsd-MIB CISCOSB-draft-ietf-entmib-sensor-MIB CISCOSB-draft-ietf-syslog-device-MIB CISCOSB-rfc2925-MIB CISCO-SMI-MIB CISCOSB-DebugCapabilities-MIB CISCOSB-UanVoice-MIB CISCOSB-VlanVoice-MIB CISCOSB-Sysmng-MIB CISCOSB-sysmng-MIB CISCOSB-sct-MIB CISCO-TC-MIB CISCO-TC-MIB CISCO-TC-MIB		
RMON	for enhanced traffic management, mor	<u>. </u>		
IPv4 and IPv6 dual stack	Coexistence of both protocol stacks to	ease migration		
Firmware upgrade	 Web browser upgrade (HTTP/HTTPS) an Upgrade can be initiated through consol Dual images for resilient firmware upgra 	e port as well		
Port mirroring	Traffic on a port or LAG can be mirrored probe. Up to 8 source ports can be mirrored	d to another port for analysis with a network analyzer or RMON rored to one destination port		
VLAN mirroring	Traffic from a VLAN can be mirrored to Up to 8 source VLANs can be mirrored	o a port for analysis with a network analyzer or RMON probe. to one destination port		
Flow-based redirection and mirroring	Redirect or mirror traffic to a destination	on port or mirroring session based on flow		
Remote Switch Port Analyzer (RSPAN)	Traffic can be mirrored across Layer 2 domain to a remote port on a different switch for easier troubleshooting			
sFlow agent	Switch can export sFlow sample to extended down to flow level	ernal collectors. sFlow provides visibility into network traffic		
DHCP (options 12, 66, 67, 82, 129, and 150)	DHCP options facilitate tighter control from a central point (DHCP server), to obtain IP address, auto-configuration (with configuration file download), DHCP Relay, and host name			
Auto-configuration with secure	Enables secure mass deployment with	protection of sensitive data		

Feature	Description	
copy (SCP) file download		
Text-editable configs	Config files can be edited with a text editor and downloaded to another switch, facilitating easier mass deployment	
Smartports	Simplified configuration of QoS and security capabilities	
Auto Smartports	Automatically applies the intelligence delivered through the Smartports roles to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This facilitates zero-touch deployments	
Secure copy (SCP)	Securely transfer files to and from the switch	
Textview CLI	Scriptable CLI. A full CLI as well as a menu CLI are supported	
Cloud services	Support for Cisco Active Advisor	
Localization	Localization of GUI and documentation into multiple languages	
Login banner	Configurable multiple banners for web as well as CLI	
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up)	
Other management	Traceroute; single IP management; HTTP/HTTPS; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client; Simple Network Time Protocol (SNTP); Xmodem upgrade; cable diagnostics; Ping; syslog; Telnet client; SSH client; automatic time settings from Management Station	
Green (power efficiency)		
Energy detect	Automatically turns power off on RJ-45 port when detecting link down. Active mode is resumed without loss of any packets when the switch detects the link is up	
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables	
EEE compliant (802.3az)	Supports IEEE 802.3az on all 10 Gigabit copper ports	
Disable port LEDs	LEDs can be manually turned off to save on energy	
General		
Jumbo frames	Frame sizes up to 9K bytes. The default MTU is 2K	
MAC table	16K addresses	

Feature	Description					
Discovery						
Bonjour	The switch advertises itself using the Bonjour protocol					
LLDP (802.1ab) with LLDP-MED extensions	and capabilities to ne	Link Layer Discovery Protocol (LLDP) allows the switch to advertise its identification, configuration, and capabilities to neighboring devices that store the data in a MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones				
Cisco Discovery Protocol		s itself using the Cisco ng Cisco Discovery Pro		ol. It also learns the	connected device and	
Product specifications						
Power over Ethernet	any of the RJ ₄₅ netw Maximum power of 6 delivered to any of th	e following switches support 802.3at PoE+, 802.3af PoE, and Cisco pre-standard (legacy) PoE on y of the RJ45 network ports. 60W PoE is also supported on selected RJ-45 network ports eximum power of 60W is delivered to any of the 60W PoE ports, and maximum power of 30W is livered to any of the other RJ45 network ports, until the PoE budget for the switch is reached to total power available for PoE per switch is as follows				
	Model	Power Dedicated to PoE	Number of Ports	That Support Po	E	
	SG ₃₅ oX-8PMD	240W	8 (4 support 6oW	/ PoE)		
	SG350X-24P	195W	24 (4 support 6oW PoE)			
	SG350X-24MP	382W	24 (4 support 60\	W PoE)		
	SG350X-24PD	375W	24 (4 support 60\	W PoE)		
	SG ₃₅ oX- ₄ 8P	382W	48 (8 support 6o)	8 (8 support 6oW PoE)		
	SG ₃₅ oX- ₄ 8MP	740W	24 (8 support 60)	W PoE)		
Power consumption (worst case)	Model Name	Green Power (Mode)	System Power Consumption	Power Heat Dissipation Consumption (BTU/hr) (with PoE)		
	SG ₃₅ oX-8PMD	EEE, Energy Detect, Short Reach	110V=32.5W 220V=32.5W	N/A	1065.3	
	SG350X-24	EEE, Energy Detect, Short Reach	110V=32.5W 220V=32.5W	N/A	83.39	
	SG350X-24P	EEE, Energy Detect, Short Reach	110V=48.8W 220V=49.3W	110V=269.2W 220V=260.1W	764.18	
	SG350X-24MP	EEE, Energy Detect, Short Reach	110V=53.8W 220V=54.8W	110V=471.2W 220V=460.4W	1,607.80	
	SG ₃₅ 0X-24PD	EEE, Energy Detect, Short Reach	110V=48.8W 220V=49.3W	110V=269.2W 220V=260.1W	1625.3	
	SG ₃₅ 0X-48	EEE, Energy Detect, Short Reach	110V=52.0W 220V=51.8W	N/A	177.43	
	SG ₃₅ 0X- ₄ 8P	EEE, Energy Detect, Short Reach	110V=76.3W 220V=76.9W	110V=494.3W 220V=483.1W	1,686.62	

Feature	Description				
	SG350X-48MP	EEE, Energy Detect, Short Reach	110V=82.9W 220V=82.9W	110V=893.1W 220V=878.0W	3,047.38
	SG350XG-2F10	EEE, Energy Detect, Short Reach	110V=84.3W 220V=84.6W	N/A	288.67
	SG350XG-24F	EEE, Energy Detect, Short Reach	110V=76.6W 220V=77.5W	N/A	264.44
	SG350XG-24T	EEE, Energy Detect, Short Reach	110V=143.9W 220V=142.9W	N/A	491.01
	SG350XG-48T	EEE, Energy Detect, Short Reach	110V=264.4W 220V=255.8W	N/A	902.17
	SX ₃₅ oX-o8	EEE, Energy Detect, Short Reach	110V=50.3W 220V=50.3W	N/A	171.63
	SX ₃₅ 0X-12	EEE, Energy Detect, Short Reach	110V=63.9W 220V=64.1W	N/A	202.27
	SX350X-24F	EEE, Energy Detect, Short Reach	110V=38.5W 220V=39.0W	N/A	133.07
	SX350X-24	EEE, Energy Detect, Short Reach	110V=121.1W 220V=124.5W	N/A	404.13
	SX350XG-52	EEE, Energy Detect, Short Reach	110V=234.4W 220V=229.2W	N/A	917.18
Ports	Model Name	Total System Ports	Network Ports	Uplink Ports	
	SG ₃₅ oX-8PMD	8 2.5GE + 2 10GE	8 2.5GE	2 10GE copper/SFP+ combo	
	SG ₃₅ 0X-24	24 GE + 4 10GE	24 GE	2 10GE copper/SFP+ combo + 2 SFP+	
	SG350X-24P	24 GE + 4 10GE	24 GE	2 10GE copper/S	SFP+ combo + 2 SFP+

Feature	Description			
	SG350X-24MP	24 GE + 4 10GE	24 GE	2 10GE copper/SFP+ combo + 2 SFP+
	SG350X-24PD	20 GE + 4 1G/2.5GE + 4 10GE	20 GE + 4 1G/2.5G	2 10GE copper/SFP+ combo + 2 SFP+
	SG ₃₅ 0X-48	48 GE + 4 10GE	48 GE	2 10GE copper/SFP+ combo + 2 SFP+
	SG ₃₅ oX-48P	48 GE + 4 10GE	48 GE	2 10GE copper/SFP+ combo + 2 SFP+
	SG ₃₅ 0X-48MP	48 GE + 4 10GE	48 GE	2 10GE copper/SFP+ combo + 2 SFP+
	SG350XG-2F10	10 10G copper + 2 10G SFP+ plus 1 GE OOB management	10 10GE	2 10GE SFP+ (dedicated)
	SG350XG-24F	22 10G SFP+ slots + 2 combo 10G copper/SFP+ plus 1 GE OOB management	22 10GE SFP+	2 10GE copper/SFP+ combo
	SG350XG-24T	22 10G copper + 2 combo 10G copper/SFP+ plus 1 GE OOB management	22 10GE	2 10GE copper/SFP+ combo
	SG ₃₅ 0XG-48T	46 10G copper + 2 combo 10G copper/SFP+ plus 1 GE OOB management	46 10GE	2 10GE copper/SFP+ combo
	SX ₃₅ 0X-08	6 10G copper + 2 10G SFP+ plus 1 GE OOB management	6 10GE	2 10GE Copper/SFP+ Combo
	SX ₃ 50X-12	10 10G copper + 2 10G SFP+ plus 1 GE OOB management	10 10GE	2 10GE Copper/SFP+ Combo
	SX ₃₅ 0X-24F	20 10G SFP+ slots + 4 combo 10G copper/SFP+ plus 1 GE OOB management	20 10GE SFP+	4 10GE Copper/SFP+ Combo

Feature	Description				
	SX350X-24	20 10G copper + 4 combo 10G copper/SFP+ plus 1 GE OOB management	20 10GE	4 10GE Copper/SFP+ Combo	
	SX ₃₅ 0X-52	48 10G copper + 4 combo 10G copper/SFP+ plus 1 GE OOB management	48 10GE	4 10GE Copper/SFP+ Combo	
Console port	Cisco Standard RJ45	console port			
OOB management port	Dedicated Gigabit ma	anagement port for o	ut-of-band manage	ement on SG ₃₅ oXG models	
USB slot	USB Type-A slot on t	he front panel of the s	witch for easy file	and image management	
Buttons	Reset button				
Cabling type	Unshielded Twisted Pair (UTP) Category 5 or better; fiber options (SMF and MMF); coaxial SFP+				
LEDs	System, master, stack ID, link/speed per port				
Flash	256 MB				
CPU	800 MHz (dual-core) ARM				
CPU memory	512 MB				
Packet buffer All numbers are aggregate across all ports because the buffers are dynamically sh		s are dynamically shared:			
	Model Name		Packet Buffer		
	SG ₃₅ oX-8PMD		12 MB		
	SG ₃₅ 0X-24		1.5 MB		
	SG350X-24P		1.5 MB		
	SG350X-24MP		1.5 MB		
	SG350X-24PD		24 MB		
	SG350X-48		3 MB		
	SG ₃₅ oX- ₄ 8P		3 MB		
	SG ₃₅ oX- ₄ 8MP		3 MB		
	SG350XG-2F10		2 MB		
	SG350XG-24F		2 MB		
	SG350XG-24T		2 MB		
	SG350XG-48T		4 MB		
	SX ₃₅ oX-o8		3MB		
	SX350X-12		3MB		

Feature	Description		
	SX350X-24F	3MB	
	SX350X-24	зМВ	
	SX350X-52	10MB	
Environmental			
Unit dimensions (W x H x D)	Model Name	Unit Dimensions	
	SG ₃₅ oX-8PMD	344.4 × 44 × 252.5 mm (13.6 × 1.45 × 9.94 in)	
	SG350X-24	440 × 44 × 257 mm (17.3 × 1.45 × 10.12 in)	
	SG350X-24P	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SG ₃₅ 0X-24MP	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SG ₃₅ 0X-24PD	440 × 44 × 257 mm (17.3 × 1.45 × 10.12 in)	
	SG ₃₅ 0X-48	440 × 44 × 257 mm (17.3 × 1.45 × 10.12 in)	
	SG ₃₅ 0X-48P	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SG ₃₅ oX-48MP	440 × 44 × 450 mm (17.3 × 1.45 × 17.72 in)	
	SG350XG-2F10	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SG350XG-24F	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SG350XG-24T	440 × 44 × 450 mm (17.3 × 1.45 × 17.72 in)	
	SG ₃₅ 0XG-48T	440 × 44 × 450 mm (17.3 × 1.45 × 17.72 in)	
	SX350X-08	440 x 44 x 203 mm (17.3 x 1.6 x 8.0 in)	
	SX350X-12	440 x 44 x 203 mm (17.3 x 1.6 x 8.0 in)	
	SX350X-24F	440 × 44 × 350 mm (17.3 × 1.45 × 13.78 in)	
	SX350X-24	440 x 44 x 350 mm (17.3 x 1.45 x 13.78 in)	
	SX350X-52	440 × 44 × 450 mm (17.3 × 1.45 × 17.72 in)	
Unit weight	Model Name	Unit Weight	
	SG ₃₅ oX-8PMD	2.74 kg (6.04 lb)	
	SG350X-24	4.32 kg (9.52 lb)	
	SG350X-24P	4.93 kg (10.41 lb)	
	SG ₃₅ 0X-24MP	5.69 kg (11.75 lb)	
	SG ₃₅ 0X-24PD	3.99 kg (8.79 lb)	
	SG350X-48	3.73 kg (8.22 lb)	
	SG350X-48P	5.82 kg (12.83 lb)	

Feature	Description					
	SG ₃₅ oX-48MP		6.69 kg (14.75 lb)			
	SG350XG-2F10			4.03 kg (8.88 lb)		
	SG350XG-24F			4.16 kg (9.17 lb)		
	SG350XG-24T			5.57 kg (12.28 lb)		
	SG350XG-48T	G ₃₅ oXG-48T		7.43 kg (16.38 lb)		
	SX350X-08			2.98 kg (6.57 lb)		
	SX350X-12			2.93 kg (6.46 lb)		
	SX350X-24F			4.4 kg (9.7 lb)		
	SX350X-24			5.1 (11.2 lb)		
	SX350X-52			7.29. (16.1 lb)		
Power	100 - 240V 47 - 63 Hz	, internal, uni	versal			
Certification	UL (UL 60950), CSA	(CSA 22.2), CI	E mark, F	FCC Part 15 (CFR 47) Class A		
Operating temperature	SG350XG-2F10, SG350XG-24F, SG350XG-24T, SG350XG-48T, SX350X-08, SX350X-12, SX350X-24F, SX350X-24, SG350XG-52 32° to 122°F (0° to 50°C)					
Storage temperature	-4° to 158°F (-20° to	70°C)				
Operating humidity	10% to 90%, relative	10% to 90%, relative, noncondensing				
Storage humidity	10% to 90%, relative	, noncondens	ing			
Acoustic noise and Mean Time Between Failures (MTBF)	Model Name	Fan (Number)	Acoust	tic Noise	MTBF at 50°C (Hours)	
	SG ₃₅ oX-8PMD	1	42.9 at	t 45°C	474,265	
	SG350X-24	1	o°C - 30	o°C: 36.3dB 49.3dB	385,289	
	SG350X-24P	2	o°C - 30	o°C: 41.odB 52.9dB	244,654	
	SG350X-24MP	2	o°C - 30	o°C: 43.3dB 52.3dB	144,617	
	SG350X-24PD	3	45.1 at	45°C	426,741	
	SG ₃₅ 0X-48	1	o°C - 30	o°C: 35.odB 51.7dB	248,842	
	SG ₃₅ 0X-48P	3	o°C - 30	o°C: 43.8dB 52.1dB	164,614	
	SG ₃₅ oX-48MP	4	o°C - 30 50°C: 5	o°C: 43.2dB 53.2dB	171,530	

Feature	Description			
	SG350XG-2F10	3	o°C - 3o°C: 38.9dB 5o°C: 49.7dB	291,863
	SG350XG-24F	4	o°C - 25°C: 36.4dB	194,544
	SG350XG-24T	4	o°C-3o°C: 40.7dB 5o°C: 51.7dB	347,052
	SG ₃₅ oXG-48T	4	o°C-3o°C: 47.7dB 5o°C: 58.9dB	131,767
	SX ₃ 50X-08	3	o°C - 30°C: 38.9dB 50°C: 49.7dB	1,418,411
	SX ₃ 50X-12	3	o°C - 30°C: 38.9dB 50°C: 49.7dB	633,325
	SX350X-24F	4	o°C - 25°C: 36.4dB	1,356,179
	SX350X-24	4	o°C-3o°C: 40.7dB 5o°C: 51.7dB	556,643
	SX ₃ 50X-52	4	o°C-3o°C: 47.7dB 5o°C: 58.9dB	287,136
Warranty	Limited lifetime with ship)	next-busines	s-day advance replacement (where av	ailable, otherwise same day

Package Contents

- Cisco Small Business 350X Series Stackable Managed Switch
- Power cord
- Mounting kit included with all models
- Console cable
- Quick Start Guide

Minimum Requirements

- Web browser: Mozilla Firefox version 8 or later; Microsoft Internet Explorer version 7 or later, Safari, Chrome
- Category 6a Ethernet network cable for 10 Gig speeds at up to 100m
- TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed

Ordering Information

Table 2 provides ordering information.

 Table 2.
 Ordering Information

Model Name	Product Order ID Number	Description
SG ₃₅ oX-8PMD	SG ₃₅ oX-8PMD-K ₉	 8 x 100FE/1G/2.5G ports 2 x 10GBase-T/SFP+ combo 240W power budget, 8 PoE ports (4 support 60W PoE)
SG350X-24	SG350X-24-K9	 24 x 10/100/1000 ports 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)
SG350X-24P	SG350X-24P-K9	 24 x 10/100/1000 PoE+ ports 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+) 195W power budget, 24 PoE ports (4 support 60W PoE)
SG350X-24MP	SG350X-24MP-K9	 24 x 10/100/1000 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+) 382W power budget, 24 PoE ports (4 support 60W PoE)
SG350X-24PD	SG350X24PD-K9	 20 x 10/100/1000 4 x 100FE/1G/2.5G PoE+ ports 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+) 375W power budget, 24 PoE ports (4 support 60W PoE)
SG350X-48	SG350X-48-K9	 48 x 10/100/1000 ports 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)
SG350X-48P	SG ₃₅ 0X-48P-K ₉	 48 x 10/100/1000 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+) 382W power budget, 48 PoE ports (8 support 60W PoE)
SG ₃₅ oX-48MP	SG ₃₅ 0X- ₄ 8MP-K ₉	 48 x 10/100/1000 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+) 740W power budget, 48 PoE ports (8 support 60W PoE)
SG350XG-2F10	SG350XG-2F10-K9	 10 x 10 Gigabit Ethernet 10GBase-T copper port 2 x 10 Gigabit Ethernet SFP+ (dedicated)
SG350XG-24F	SG350XG-24F-K9	 22 x 10 Gigabit Ethernet SFP+ 2 x 10 Gigabit Ethernet 10Gbase-T copper port (combo with 2 SFP+)
SG350XG-24T	SG350XG-24T-K9	 22 x 10 Gigabit Ethernet 10GBase-T copper port 2 x 10 Gigabit Ethernet SFP+ (combo with 2 copper ports)
SG350XG-48T	SG350XG-48T-K9	 46 x 10 Gigabit Ethernet 10GBase-T copper port 2 x 10 Gigabit Ethernet SFP+ (combo with 2 copper ports)
SX350X-08	SX ₃₅ 0X-08-K9	 6 x 10 Gigabit Ethernet 10GBase-T copper port 2 x 10 Gigabit Ethernet SFP+ (combo with 2 copper ports)
SX350X-12	SX350X-12-K9	 10 x 10 Gigabit Ethernet 10GBase-T copper port 2 x 10 Gigabit Ethernet SFP+ (combo with 2 copper ports)

Model Name	Product Order ID Number	Description
SX350X-24F	SX350X-24F-K9	 20 x 10 Gigabit Ethernet SFP+ 4 x 10 Gigabit Ethernet 10Gbase-T copper port (combo with 4 SFP+)
SX350X-24	SX350X-24-K9	 20 x 10 Gigabit Ethernet 10GBase-T copper port 4 x 10 Gigabit Ethernet SFP+ (combo with 4 copper ports)
SX350X-52	SX350X-52-K9	 48 x 10 Gigabit Ethernet 10GBase-T copper port 4 x 10 Gigabit Ethernet SFP+ (combo with 4 copper ports)

^{*}Each combo port has one 10/100/1000/10000 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 SG350-28P for the United States is SG350-28P-Kg-NA. Please refer to Table 2 for the correct suffix to use for your country/region.

Table 3. Country/Region Suffix for Product Order ID Number

Suffix	Country/Region
-NA	USA, Canada, Mexico, Colombia, Chile and rest of LATAM
-BR	• Brazil
-AR	• Argentina
-EU	• EU, Russia, Ukraine, Israel, UAE, Turkey, Egypt, South Africa, Indonesia, Philippines, Vietnam, Thailand, India, 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 a country/region not listed in Table 3. Not all product models are offered in all countries/regions. For India, either -EU or -IN suffix will be used depending on product models. For Korea, either -EU or -KR suffix will be used depending on product models. Please consult with your local Cisco sales representative or Cisco partners for more details.

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