Cisco Sx350 Series Fully Managed Switches Product Specifications

Objective

The Cisco Sx350 Series Fully Managed Switches are standalone switches that provide Fast Ethernet (FE)/Gigabit Ethernet (GE) and Small Form-Factor Pluggable (SFP) 2 Combo + PoE ports on specific models. The switches come with new generation highly-integrated packet processor for Carrier Ethernet and Small-Medium Enterprise (SME) applications with full wire-speed performance.

The web-based utility allows you to deploy and manage your network efficiently. Setting up and troubleshooting can be done easily with easy-to-use tools such as Cisco Discovery Protocol (CDP), FindIT Network Management, and Cisco Smartports, which let your network automatically detect and configure all connected Cisco devices.

This article aims to show the product and hardware specifications of the Sx350 Series Fully Managed Switches. To know more about the Sx350 Series Fully Managed Switches, click here.

Product Specifications

Performance

Feature	Description		
	Model Name	Forwarding rate in millions of packets per second (mpps; 64-abyte packets)	Switching capacity in Gigabits per second
Switching Capacity and forward rate All switches are wire speed and non blocking	SF350-48	13.10	17.6
	SF350-48P	13.10	17.6
	SF350-48MP	13.10	17.6
	SG350-10	14.88	20.0
	SG350-10P	14.88	20.0
	SG350-10MP	14.88	20.0
	SG35	14.88	20.0

5-10MP SG350-28	41.67	56.0
SG350-28P	41.67	56.0
SG350-28MP	41.67	56.0

Layer 2 Switching

Feature	Description
Spanning Tree Protocol (STP)	• Standard 802.1d Spanning Tree support • Fast convergence using 802.1w or Rapid Spanning Tree (RSTP), enabled by default • 8 instances are supported • Multiple Spanning Tree instances using 802.1s (MSTP)
Port Grouping	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 8 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation
Virtual Local Area Network (VLAN)	• Support for up to 4096 VLANs simultaneously • Port-based and 802.1Q tag-based VLANs • Media Access Control (MAC)-based VLAN • Management VLAN • Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks • Guest VLAN • Unauthenticated VLAN • Dynamic VLAN assignment via RADIUS server along with 802.1x client authentication • Customer Premises Equipment (CPE) 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.
Multicast TV VLAN	Multicast TV VLAN allows the single multicast VLAN to be shared in the network while subscribers remain in separate VLANs, also known as Multicast VLAN Registration(MVR)
Q-in-Q VLAN	VLANs transparently cross a service provider network while isolating traffic among customers
Generic VLAN Registration Protocol (GVRP) and Generic Attribute Registration Protocol	Protocols for automatically propagating and configuring VLANs in a bridged domain

(GARP)	
Unidirectional Link Detection (UDLD)	UDLD monitors physical connection to detect unidirectional links caused by incorrect wiring or cable/port faults to prevent forwarding loops and blackholing of traffic in switched networks
Dynamic Host Configuration Protocol (DHCP) Relay at Layer 2	Relay of DHCP traffic to DHCP server in different VLAN; works with DHCP Option 82
Internet Group Management Protocol (IGMP) versions 1, 2, and 3 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1K 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
Head-of-Line (HOL) Blocking	HOL blocking prevention
Jumbo Frame	Up to 9K (9216) bytes

Layer 3

Feature	Description
IPv4 routing	• Wirespeed routing of IPv4 packets • Up to 512 static routes and up to 128 IP interfaces
Classless Interdomain Routing (CIDR)	Support for CIDR
Layer 3 Interface	Configuration of Layer 3 interface on physical port, LAG, VLAN interface, or loopback interface
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
DHCP Server	• Switch functions as an IPv4 DHCP server serving IP addresses for multiple DHCP pools/scopes • Support for DHCP options

Security

Feature	Description
Secure Shell (SSH) Protocol	SSH is a secure replacement for Telnet traffic. Secure Copy Protocol (SCP) also uses SSH. SSH v1 and v2 are supported.
Secure Sockets Layer (SSL)	SSL support: Encrypts all HTTPS traffic, allowing highly secure access to the browser-based management GUI in the switch.
IEEE 802.1X (Authenticator Role)	• 802.1X: RADIUS authentication and accounting, MD5 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 Bridge Protocol Data Unit (BPDU) Guard	A security mechanism to protect the network from invalid configurations. A port enabled for BPDU Guard is shut down if a BPDU message is received on that port.
STP Root Guard	This prevents edge devices not in the control of the network administrator 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 DHCP Servers.
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.
Dynamic ARP Inspection (DAI)	The switch discards Address Resolution Protocol (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 addresses 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.
Layer 2 isolation Private VLAN Edge (PVE) with community VLAN	PVE (also known as protected ports) provides Layer 2 isolation between devices in the same VLAN, supports multiple uplinks.
Port Security	The ability to lock source MAC addresses to ports and limits the number of learned MAC addresses.
Remote Authentication Dial-In User Service (RADIUS), Terminal Access Controller Access Control System	Supports RADIUS and TACACS authentication; switch functions as a client

(TACACS+)	
Storm Control	Broadcast, multicast, and unknown unicast
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.
Denial of Service (DoS) Protection	DoS attack prevention
Access Control Lists (ACLs)	• Support for up to 512 rules • Drop or rate limit based on source and destination MAC, VLAN ID or IP address, 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, time-based ACLs supported.

Quality of Service

Feature	Description
Priority Levels	8 hardware queues per port
Scheduling	Strict priority and Weighted Round-Robin (WRR) queue assignment based on DSCP and class of service (802.1p/CoS)
Class of Service	Port-based; 802.1p VLAN priority-based; IPv4/v6 IP precedence, Type of Service (ToS), and DSCP-based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port, and flow-based
Congestion Avoidance	A TCP congestion avoidance algorithm is required to reduce and prevent global TCP loss synchronization

Standards

Feature	Description
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab1000BASE-T Gigabit Ethernet, IEEE 802.3ad LACP, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1D (STP, GARP, and GVRP),IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 922, RFC 920, RFC 950, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1350, RFC 1533, RFC 1541, RFC 1624, RFC 1700, RFC 1867, RFC 2030, RFC 2616, RFC 2131, RFC 2132, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2576, RFC 4330, RFC 1213, RFC 1215, RFC 1286, RFC 1442, RFC 1451, RFC 1493, RFC 1573, RFC 1643, RFC 1757, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819,

RFC 2863, RFC 1157, RFC 1493, RFC 1215, RFC 3416

IPv6

Feature	Description
IPv6	• IPv6 host mode • IPv6 over Ethernet • IPv6/IPv4 Dual Stack • IPv6 neighbor and router discovery (ND) • IPv6 stateless address auto-configuration • Path maximum transmission unit (MTU) discovery • Duplicate address detection (DAD) • ICMP version 6
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
IPv6 Applications	Web/SSL, Telnet server/SSH, Dynamic Host Configuration Protocol (DHCP) Client, DHCP Autoconfig, Cisco Discovery Protocol (CDP), Link Layer Discovery Protocol (LLDP)
IPv6 Request for Comments (RFCs) Supported	• RFC 4443 (which obsoletes RFC2463) - ICMP version 6 • RFC 4291 (which obsoletes RFC 3513) - IPv6 address architecture • RFC 4291 - IPv6 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 auto-configuration • RFC 1981 - Path MTU discovery • RFC 4007 - IPv6 scoped address architecture • RFC 3484 - Default address selection mechanism

Management

Feature	Description	
Web User Interface	Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring	
Simple Network Management Protocol (SNMP)	SNMP versions 1, 2c, and 3 with support for traps, and SNMP version 3 User-based Security Model (USM)	
Standard Management Information	draft-ietf-bridge-8021x-MIB draft-ietf-bridge-rstpmib-04-MIB	rfc2011-MIB draft-ietf-entmib-sensor-MIB

Base (MIBs)	draft-ietf-hubmib-etherif-MIB-v3-00-MIB	lldp-MIB
	draft-ietf-syslog-device-MIB	lldpextdot1-MIB
	ianaaddrfamnumbers-MIB	lldpextdot3-MIB
	ianaifty-MIB	lldpextmed-MIB
	ianaprot-MIB	p-bridge-MIB
	inet-address-MIB	q-bridge-MIB
	ip-forward-MIB	rfc1389-MIB
	ip-MIB	rfc1493-MIB
	RFC1155-SMI	rfc1611-MIB
	RFC1213-MIB	rfc1612-MIB
	SNMPv2-MIB	rfc1850-MIB
	SNMPv2-SMI	rfc1907-MIB
	SNMPv2-TM	rfc2571-MIB
	RMON-MIB.my	rfc2572-MIB
	dcb-raj-DCBX-MIB-1108-MIB	rfc2574-MIB
	rfc1724-MIB	rfc2576-MIB
	RFC-1212.my_for_MG-Soft	rfc2613-MIB
	rfc1213-MIB	rfc2665-MIB
	rfc1757-MIB RFC-	rfc2668-MIB
	1215.my SNMPv2-	rfc2737-MIB
	CONF.my	rfc2925-MIB
	SNMPv2-TC.my	rfc3621-MIB
	rfc2674-MIB	rfc4668-MIB
	rfc2575-MIB	rfc4670-MIB
	rfc2573-MIB	trunk-MIB
	rfc2233-MIB	tunnel-MIB
	rfc2013-MIB	udp-MIB
	rfc2012-MIB	
Private MIBs	CISCOSB-lldp-MIB CISCOSB-	CISCOSB-ip-MIB
	brgmulticast-MIB CISCOSB-	CISCOSB-iprouter-MIB
	bridgemibobjects-MIB	CISCOSB-ipv6-MIB
	CISCOSB-bonjour-MIB	CISCOSB-mnginf-MIB
	CISCOSB-dhcpcl-MIB	CISCOSB-lcli-MIB
	CISCOSB-MIB	CISCOSB-localization-MIB
	CISCOSB-wrandomtaildrop-MIB	CISCOSB-mcmngr-MIB
	CISCOSB-traceroute-MIB	CISCOSB-mng-MIB
	CISCOSB-telnet-MIB	CISCOSB-physdescription-MIB
	CISCOSB-stormctrl-MIB	CISCOSB-Poe-MIB
	CISCOSB-ssh-MIB	CISCOSB-protectedport-MIB
	CISCOSB-socket-MIB	CISCOSB-rmon-MIB
	CISCOSB-sntp-MIB	CISCOSB-rs232-MIB
	CISCOSB-smon-MIB	CISCOSB-SecuritySuite-MIB
	CISCOSB-phy-MIB	CISCOSB-snmp-MIB
	CISCOSB-multisessionterminal-MIB	CISCOSB-specialbpdu-MIB
	CISCOSB-mri-MIB	CISCOSB-banner-MIB
	CISCOSB-jumboframes-MIB	CISCOSB-syslog-MIB
	CISCOSB-gvrp-MIB	CISCOSB-TcpSession-MIB
	CISCOSB-endofmib-MIB	CISCOSB-traps-MIB
	CISCOSB-dot1x-MIB	CISCOSB-trunk-MIB
	CISCOSB-deviceparams-MIB	CISCOSB-tuning-MIB
	CISCOSB-cli-MIB	CISCOSB-tunnel-MIB
	CISCOSB-cdb-MIB	CISCOSB-udp-MIB
	CISCOSB-brgmacswitch-MIB	CISCOSB-vlan-MIB

	CISCOSB-3sw2swtables-MIB CISCOSB-smartPorts-MIB CISCOSB-tbi-MIB CISCOSB-macbaseprio-MIB CISCOSB-policy-MIB CISCOSB-env_mib CISCOSB-sensor-MIB CISCOSB-aaa-MIB CISCOSB-application-MIB CISCOSB-bridgesecurity-MIB CISCOSB-copy-MIB CISCOSB-CpuCounters-MIB CISCOSB-Custom1BonjourService-MIB CISCOSBdhcp-MIB CISCOSB-dlf-MIB CISCOSB-dnscl-MIB CISCOSB-embweb-MIB CISCOSB-fft-MIB CISCOSB-file-MIB CISCOSB-greeneth-MIB CISCOSB-interfaces-MIB CISCOSB-interfaces_recovery-MIB CISCOSB-ipstdacl-MIB CISCO-SMI-MIB CISCOSB-DebugCapabilities-MIB CISCOSB-CDP-MIB CISCOSB-vlanVoice-MIB CISCOSB-EVENTS-MIB CISCOSB-sysmng-MIB CISCOSB-sct-MIB CISCO-TC-MIB CISCO-VTP-MIB CISCO-CDP-MIB CISCOSB-eee-MIB CISCOSB-ssl-MIB CISCOSB-qosclimib-MIB CISCOSB-digitalkeymanage-MIB CISCOSB-tbp-MIB CISCOSMB-MIB CISCOSB-secsd-MIB CISCOSB-draft-ietf-entmib-sensor-MIB CISCOSB-draft-ietf-syslog-device-MIB CISCOSB-rfc2925-MIB
Remote Monitoring (RMON)	Embedded RMON software agent supports 4 RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
IPv4 and IPv6 Dual Stack	Coexistence of both protocol stacks to ease migration
Firmware Upgrade	• Web browser upgrade (HTTP/HTTPS) and TFTP and upgrade over SCP running over SSH • Upgrade can be initiated through console port as well • Dual images for resilient firmware upgrades
Port Mirroring	Traffic on a port or VLAN can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored to one destination port. A single session is supported
VLAN mirroring	Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer or RMON probe. Up to 8 source VLANs can be mirrored to one destination port. A single session is supported.
DHCP (Option 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 hostname
Secure Copy (SCP)	Securely transfer files to and from the switch
Autoconfiguration with Secure Copy (SCP) file download	Enables secure mass deployment with protection of sensitive data
Text-Editable Config Files	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	Applies the intelligence delivered through the Smartport roles and applies it automatically to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This facilitates zero-touch deployments.

Textview CLI	Scriptable command-line interface. A full CLI as well as a menu-based CLI is supported. User privilege levels 1, 7, and 15 are supported for the CLI.
Cloud Services	Support for Cisco Small Business FindIT Network Tool
Localization	Localization of GUI and documentation into multiple languages
Other Management	Traceroute; single IP management; HTTP/HTTPS; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client; BOOTP; SNTP; Xmodem upgrade; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up)
Login Banner	Configurable multiple banners for web as well as CLI

Power Efficiency

Feature	Description
EEE Compliance (802.3az)	Supports 802.3az on all copper ports (SG350 models)
Energy Detect	• Automatically turns power off on Gigabit Ethernet and 10/100 RJ-45 ports when detecting a link down • Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length for Gigabit Ethernet models. Reduces the power consumption for cables shorter than 10m.
Disable port LEDs	LEDs can be manually turned off to save on energy

General

Feature	Description
Jumbo frames	Frame sizes up to 9K (9216) bytes supported on 10/100 and Gigabit interfaces
MAC table	Up to 16K (16384) MAC addresses

Discovery

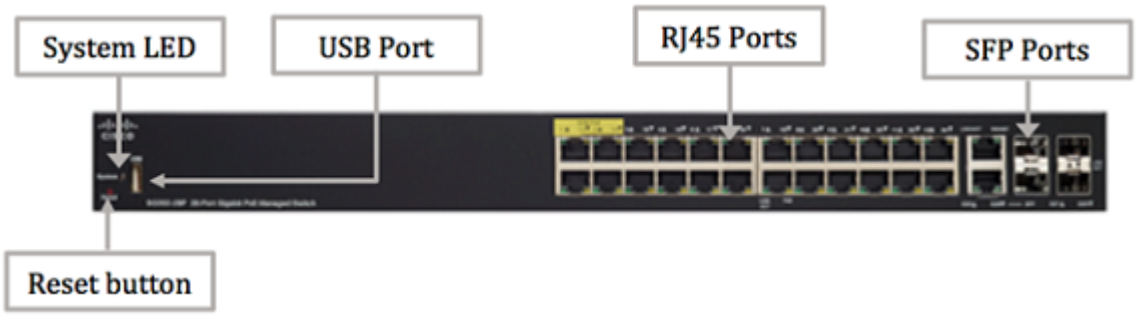
Feature	Description
Bonjour	The switch advertises itself using the Bonjour protocol
Link Layer Discovery Protocol(LLDP) (802.1ab) with LLDP-MEDExtensions	LLDP allows the switch to advertise its identification, configuration, and capabilities to neighboring devices that store the data in a MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones.
Cisco Discovery Protocol	The switch advertises itself using the Cisco Discovery Protocol. It also learns the connected device and its characteristics via Cisco Discovery Protocol.

Power Over Ethernet (PoE)

Feature	Description
802.3af PoE or 802.3at PoE+ Delivered over Any of the RJ-45 Ports Within the Listed Power Budgets	Switches support 802.3at PoE+, 802.3af, 802.3xx 60W, and Cisco prestandard (legacy) PoE. Maximum power of 60W to any 10/100 or Gigabit Ethernet port for PoE+ supported devices and 15.4W for PoE supported devices, until the PoE budget for the switch is reached. The total power available for PoE per switch is as follows:

Model Name	Power Dedicated to PoE	Number of Ports That Support PoE
SF350-48P	382 W	48
SF350-48MP	740 W	48
SG350-10P	62 W	8
SG350-10MP	62 W	8
SG355-10P	124 W	8
SG350-28P	195 W	24
SG350-28MP	382 W	24

Physical Interfaces



Feature	Description
Ports	

Model Name	Total System Ports	RJ-45 Ports	Combo Ports (RJ-45 + SFP
SF350-48	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet
SF350-48P	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet
SF350-48MP	48 Fast Ethernet + 4 Gigabit Ethernet	48 Fast Ethernet 2 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet
SG350-10	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
SG350-10P	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
SG355-10P	10 Gigabit	8 Gigabit	2 Gigabit

		Ethernet	Ethernet	Ethernet combo
	SG350-10MP	10 Gigabit Ethernet	8 Gigabit Ethernet	2 Gigabit Ethernet combo
	SG350-28	28 Gigabit Ethernet	24 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet combo
	SG350-28P	28 Gigabit Ethernet	24 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet combo
	SG350-28MP	28 Gigabit Ethernet	24 Gigabit Ethernet	2 SFP slots, 2 Gigabit Ethernet combo

Buttons	Reset button
Cabling Type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5 Ethernet or better for 1000BASE-T
LEDs	System, Link/Act, PoE, Speed, LED power saving option
Flash	32 MB
CPU Memory	256 MB

Packet Buffer

Feature	Description
Packet Buffer	All numbers are aggregate across all ports as the buffers are dynamically shared:

Model Name	Packet Buffer
SF350-48	24Mb
SF350-48P	24Mb
SF350-48MP	24Mb
SG350-10	12Mb
SG350-10P	12Mb
SG355-10P	12Mb
SG350-10MP	12Mb
SG350-28	12Mb
SG350-28P	12Mb
SG350-28MP	12Mb

	SKU	Media	Speed	Maximum Distance
Supported SFP Modules	MGBSX1	Multimode fiber	1000 Mbps	350 m
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBT1	Single-mode fiber	1000 Mbps	100 km

Environmental

Feature	Description
Dimensions (W x	SG350-10, SG350-10P, SG350-10MP:

H x D)	17.3 x 1.45 x 13.78 in. (440 x 44.45 x 350 mm) 11 x 1.45 x 6.7 in. (279.4 x 44.45 x 170 mm) SG355-10P, SG350-28: 17.3 x 1.45 x 10.1 in. (440 x 44.45 x 202 mm) SF350-48, SG350-28P, SG350-28MP: 17.3 x 1.45 x 10.1 in. (440 x 44.45 x 257 mm) SF350-48P, SF350-48MP:
Unit Weight	SF350-48: 7.87 lb (3.57 kg) SF350-48P: 12.34 lb (5.59 kg) SF350-48MP: 12.37 lb (5.61 kg) SG350-10: 2.40 lb (1.09 kg) SG350-10P: 2.62 lb (1.19kg) SG355-10P: 5.20 lb (2.36 kg) SG350-10MP: 2.62 lb (1.19kg) SG350-28: 6.06 lb (2.75 kg) SG350-28P: 8.44 lb (3.83 kg) SG350-28MP: 7.43 lb (3.37 kg)
Power	100-240V 50-60 Hz, internal, universal: SF350-48P, SF350-48MP, SG350-28MP, SG350-28, SG350-28P, SG350-28MP 100-240V 50-60 Hz, 0.7A, external: SG350-10 100-240V 50-60 Hz, 1.5A, external: SG350-10P 100-240V 50-60 Hz, internal, universal: SG355-10P 100-240V 50-60 Hz, 2.0A, external: SG350-10MP
Certification	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
Operating Temperature	SG350-10, SG350-10P, SG355-10P, SG350-10MP, SG350-28, SG350-28P, SG350-28MP 32° to 104°F (0° to 40°C) SG350-10MP, SG350-10P, SG350-28P 32° to 113°F (0° to 45°C) SF350-48P, SF350-48MP, SG350-28MP 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

Acoustic noise and MTBF

Model Name	FAN (Number)	Acoustic Noise	MTBF @40C (hr)
SF350-48	Fanless	N/A	277,653
SF350-48P	3	53.7 dB at 40C	182,270
SF350-48MP	4	49.8 dB at 40C	191,951
SG350-10	Fanless	N/A	308,196
SG350-10P	Fanless	N/A	205,647
SG355-10P	Fanless	N/A	296,426
SG350-10MP	Fanless	N/A	80,093
SG350-28	Fanless	N/A	367,209
SG350-28P	2	47.9 dB at 40C	396,687
SG350-28MP	4	49.6dB at 40C 54dB at 50C	213,373