

10 Port Gig with 8-port 10/100/1000Base T and 2 combo TP/SFP ports L2 Plus Managed PoE+ Switch

The SS2GD8P2+ is a 10 port GbE Layer 2 PoE+ Managed Switch. It supports 8 10/100/1000Mbps Twisted Pair (TP) Ethernet ports with PoE+ support and 2 combo ports that support 10/100/1000Mbps copper twisted pair or 100M/1G Fiber SFP. With a total of 8 ports available to support PoE+ this switch is compliant with 1EEE802.3af and 802.3at PoE standards providing the PoE ports the capability to supply 15.3W or 30W of power with a maximum PoE power budget of 130W. Management Flexibility is also a key with the SS2GD8P2+ with support through console port, SNMP, Command Line Interface (CLI) and a simple and easy to use Web interface that can be accessed through a browser.



Specifications

Performance

Switching Capacity:	20 Gbps	Auto-negotiation:	For port speed and duplex mode	
	14.88 mpps [million of packets per second 64 byte packets]	LED Status Indicators: Port link activity; Port connectivity; Port transmission speed;		
MAC Address Table Size:	8К	L2 Features		
		Flow Control:	IEEE 802.3x & Back-Pressure	
Ports & Port Features				
Combo (RJ-45/SFP):	2, 10/100/1000 Base-T or 100/1000m SFP	Spanning Tree Protocol:	IEEE 802.1D Spanning Tree Protocol (STP); IEEE 802.1w Rapid Spanning Tree Protocol (RSTP);	
RJ45 10/100/1000Base-T:	8 (up to 30W PoE)		IEEE 802.1s Multiple Spanning Tree Protoco (MSTP);	
Serial Console Port:	1, RJ-45	Voice VLAN:	Voice traffic is automatically assigned to a voice specific VLAN and treated with appropriate	
PoE Features:	IEEE 802.3 af/ at compliant; Endpoint with 52~56 VDC power through RJ-45		levels of QoS.	
	pin 1, 2, 3, 6; Auto detect powered device and consumption levels; Supports	VLANs:	Supports 4K IEEE 802.1Q VLANs; Portbased; 802.1Q tag based;	
	per port power consumption monitoring; Smart feature for PD on/off, PD detection, power level, PD status and power feeding		Mac-based; Private VLAN Edge(PVE); Management VLAN	
	priority; Supports per port power priority			
	setting; PoE scheduling to turn power on or off.	Trunking:	LACP (IEEE 802.3ad) link Aggregation Control Protocol.	
Port Loop-back Detection:	Protection against port network loops that cause system crash		- Up to 5 groups - UP to 10 ports per group	

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Generic VLAN Registration(GVRP) :	Protocols for automatically propagating and configuring VLANs in a bridged domain	Storm control:	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm.	
DHCP Relay (Layer 2):	Relay of DHCP traffic to DHCP servers in different VLANs. Works with DHCP Option 82	ACLs:	Supports for up to 256 entries Drop or rate limitation based on source and	
IGMP v1/v2/v3 snooping:	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported)		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 Ethemet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag.	
IGMP Querier:	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router.	Quality of Comis		
IGMP Proxy:	Supports IGMP Proxy	Quality of Servic		
MLD v1/v2 snooping:	Deliver IPv6 multicast packets only to the required receivers.	Hardware Priority Queue:	Support 8 hardware queues	
Security		Scheduling:	Strict priority and weighted round-robin (WRR) Queue assignment based on	
Secure Shell(SSH) Protocol:	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported.		DSCP and class of service(802.1p/CoS)	
Secure Sockets Layer(SSL):	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch.	Classification:	Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/type of service(ToS) /DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS.	
IEEE 802.1X:	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions. Supports IGMP-	Rate Limiting:	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based.	
	RADIUS based 802.1X, Dynamic VLAN assignment	IPv6 applications:	Web/SSL, Telnet/SSH, ping, Simple Network Time Protocol(SNTP), Trivial File Transfer	
Layer 2 isolation Private VLAN Edge (PVE):	PVE (also knows as protected ports) provides L2 isolation between clients in the same VLAN, supports multiple uplinks.	Management	Protocol(TFTP), SNMP, Syslog.	
Port Security:	Locks MAC addresses to ports, and limits the number of learned MAC addresses.	Web GUI interface:	Built-in switch configuration utility for browser-based device configuraton (HTTP/HTTPs). Supports configuration,	
IP Source Guard:	Prevents datagrams with spoofed addresses from being in the network.		system dashboard, maintenance, and monitoring.	
RADIUS/TACACS+:	Supports RADIUS and TACACS+ authentication. Switch as a client.	Dual Image:	Dual image provides independent primary and secondary OS files for back up while upgrading.	

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SNMP:	SNMP version 1, 2c and 3 with support for	Green Ethernet		
Remote Monitoring (RMON):	traps, and SNMP version 3 user-based security model (USM). Embedded RMON software agent supports RMON groups 1, 2, 3, 9 (history, statistics,	Link detection: Compliant with IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or idle of client. Active mode is resumed without loss of any packets when		
	alarms, and events) for enhanced traffic management, monitoring and analysis.	Cable Length Adjusts the signal strength based on the cable length. Reduces the power		
IPv4 and IPv6 dual stack:	Coexistence of both potocol stacks to migration.	consumption for cables shorter.		
Firmware upgrade:	Web browser upgrade(HTTP/HTTPs) and TFTP upgrade through console port.	Jumbo frames: Frame sizes up to 9KB supported on Gigabit interfaces.		
		MAC Table: Up to 8K MAC addresses.		
Port mirroring:	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1(N is Switch's Ports) ports can be mirrored to single destination port.	Discovery Link Layer Discovery Protocol (LLDP)(IEEE802.1AB) with LLDP- MED extensions:		
	A single session is supported.	- Used by network devices for advertising their identities,		
Easy-Port- Configuration:	Easy configuration of client QoS and Security features.	capabilities, and neighbors on a IEEE802 local area nework, principally wired Ethernet.		
		Power over Ethernet(PoE)		
Other management:	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client/DHCPv6 Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support).	IEEE 802.3at PoE delivered over each of the RJ-45 ports within the listed power budgets:		
		- IEEE 802.3at: Port 1-8		
S-Flow:	The industry standard technology for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense agains security threats.	- IEEE 802.3af: Port 1-8		
		- Power Dedicated to PoE: 130W		
UPnp:	The Universal Plug and Play Forum, an industry group of companies working to enable device-to- device interoperability by promoting Universal Plug and Play.	PoE port configuration: Supports per port PoE configuration function.		
		PoE Scheduling: Supports per port PoE scheduling to turn on/off the PoE.		

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Environmental (preliminary)		Package Contents	
Dimensions(WXHXD):	280 x 44 x 230mm	- Switch - Power cord	- CD-ROM with user manual documentation(PDF) included
Weight:	2.27Kg	- Console Cable	- QIG (Quick Insatll Guide)
Power:	100-240 VAC 50-60 Hz, internal, universal	Minimum Requirement	ts
Operating temperature:	0°C - 40°C	- Web borwser: Mozilla Fire - Category 5 Ethernet netw	efox v2.5 or later, Microsoft IE v6 or later. ork cable.
Storage temperature:	-20°C - 70°C	 TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network. 	
Operating humidity:	10% to 90%, relative, noncondensing	- Optional Assecories Rack mounting is availa Rackmount Kit.	ble with the optional SS2GD8IP-RB

Warranty and Support

Warranty: Limited lifetime Warranty for as long as the original customer/end user owns the product, or 5 years after product discountinuance, whichever occurs first (excluding power supplies and fans), Power supplies and fans carry a limited 1 year warranty.

Support: Free technical support (phone/email); Software support; Premium incident support.

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