

SMS-8GP4S Series

12-Port Industrial Gigabit PoE+ Managed Ethernet Switch - 8*10/100/1000Base-T(X) with PoE-PSE (30W/Port) + 4*100/1000Base-(F)X SFP Slots

Feature



Managed



Gigabit



PoE



- 8-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- 4-port dual rate 100/1000Base-(F)X SFP slots
- Multiusers account for security
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy support: G.8032 ERPS v2/STP/RSTP/MSTP
- Supports IP route for routing function
- Supports RADIUS, TACACS+ authentication protocol
- Supports QoS, LACP bandwidth control
- Supports VLAN, SNMP v1/v2c/v3, ACL, IP source guard for Ethernet security
- PoE ping alarm function for PoE ports power recycle
- Redundant power inputs design
- Operating temperature range - STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C

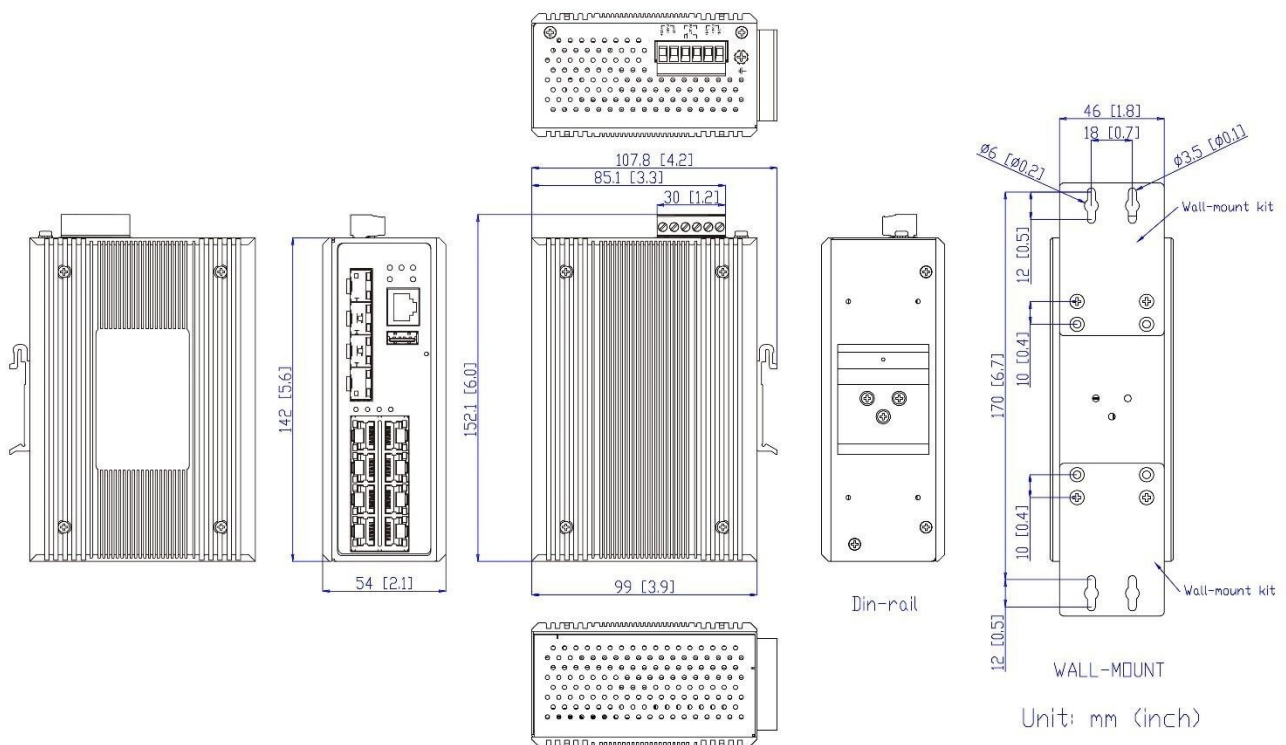
Introduction

SMS-8GP4S Series are 12-port full gigabit managed PoE Ethernet switch, which provides 8*10/100/1000Base-T(X) with IEEE 802.3 af/at PoE compliant and 4*100/1000Base-(F)X SFP slots. SMS-8SP4S Series are full manageable Layer-2 Ethernet switch series and supporting power inputs redundancy and PoE function with 30W per port output. SMS-8GP4S Series offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network, to give user the chance to choose your Ethernet switch but not tied up with particular brand's product.

SMS-8GP4S Series provides comprehensive network security and management capability by supporting Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation (Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment. Besides, supporting PoE ping alarm function allows user to reboot the powered device remotely when it suffered a malfunction. For power saving purpose, assuring PD priority and enhancing security level of the network, SMS-8GP4S Series also supports PoE scheduling and PoE output limit function to set up PoE output duration and watt at will.

SMS-8GP4S Series as an industrial Ethernet switch product line, is designed to withstand harsh and extreme environment conditions. With fan less design, SMS-8GP4S still manage to be applied in extremely polarized temperature, from -40°C to 75°C, making it the best choice in various industrial applications.

Dimensions (unit = mm)



Specifications

Technology

Standards

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet
- IEEE 802.3ab 1000Base-T Gigabit Ethernet
- IEEE 802.3z 1000Base-X Gigabit Fiber
- IEEE 802.3af/at Power over Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.1d STP (Spanning Tree Protocol)
- IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)

	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS v1/v2(Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation (LACP)
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Network Management	
Management	IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power lost warning, relay trigger
Security	Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MAC-based Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, IP route
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port Egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2(<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
PoE	POE/POE+ port power allocation, Power budget protection, PoE output scheduled, PoE alive check and remote reboot PD device
System / Diagnostics	Local Image Protection, PING, PING6
SNMP MIBs & RFC Standard	RFC 2674 VLAN MIB IEEE-802.1Q bridge MIB 2008 RFC 2819 RMON (group 1, 2, 3, and 9) RFC 1213 MIB II RFC 1215 TRAPS RFC 4188 bridge RFC 4292 IP forwarding table

	<p>RFC 4293 management information base for the Internet Protocol (IP)</p> <p>RFC 5519 multicast group membership discovery</p> <p>RFC 4668 RADIUS auth. client</p> <p>RFC 4670 RADIUS accounting</p> <p>RFC 3635 Ethernet-like</p> <p>RFC 2863 interface group MIB using SMI v2</p> <p>RFC 3636 802.3 MAU</p> <p>RFC 4133 entity MIB v3</p> <p>RFC 3411 SNMP management frameworks</p> <p>RFC 3414 user-based security model for SNMPv3</p> <p>RFC 3415 view-based access control model for SNMP</p> <p>RFC 2613 SMON- PortCopy</p> <p>IEEE 802.1 MSTP</p> <p>IEEE 802.1AB LLDP-MIB (LLDP MIB included in a clause of the STD)</p> <p>IEEE 802.1X (PAE MIB included in a clause of the STD)</p> <p>TIA 1057 LLDP-MED (MIB is part of the STD)</p> <p>RFC 3621 LLDP-MED Power (POE) (No specific MIB for POE+ exists)</p>
Switch Properties	
Back-Plane (SwitchingFabric)	24Gbps
Priority Queues	8
Max. NO. of VLANs	4095
VLAN ID Range	VID 1 to 4095
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
IGMP Group	1024
Transfer Rate	<p>14,880pps for Ethernet port</p> <p>148,800pps for Fast Ethernet port</p> <p>1,488,000pps for Gigabit Ethernet port</p>
Interface	
RJ45 Ports	8*10/100/1000Base-T(X) with PoE+, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)
Fiber Port	4*100/1000Base-(F)X SFP slots
Wavelength	Depends on SFP modules
LED Indicators	<p>System: Power 1, Power 2, Master, Ring, Fault</p> <p>Ethernet ports: Speed/Link/Active</p> <p>PoE: On-connected to PD devices</p> <p>SFP: Link/Active</p>
RS232SerialConsole	1*RS232 in RJ45 connector with console cable, baud rate 115,200bps,8,N,1
Relay Contact	24 VDC, 1A resistive

Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Optical Cable	Multi-mode cable - 50/125um or 62.5/125um, Single-mode cable - 9/125um or 10/125um
Power Requirements	
Input Voltage	SMS-8GP4S(-T): dual 48-55VDC redundant power inputs
	SMS-8GP4S-24(-T): dual 12-55VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	SMS-8GP4S(-T): Max. 15W full loading
	SMS-8GP4S-24(-T): Max. 15.5W full loading
Max PoE Budget	SMS-8GP4S(-T): 180W@48-55VDC
	SMS-8GP4S-24(-T): 90W@12VDC, 180W@48-55VDC
PoE Power Output	30W max. per PoE port
Mechanical Characteristics	
Housing	Metal, IP30 protection
Dimensions(WxHxD)	54 x 142 x 99 mm (2.13 x 5.59 x 3.9 inch)
Weight	SMS-8GP4S(-T): Unit weight: 0.99kg (2.18 lb), Shipping weight: 1.35kg (2.98 lb)
	SMS-8GP4S-24(-T): Unit weight: 0.95kg (2.09 lb), Shipping weight: 1.35kg (2.98 lb)
Mounting	DIN-Rail Mounting, Wall Mounting
Environmental Limits	
Operating Temperature	STD: -10°C ~ 65°C (14°C ~ 149°F) EOT: -40°C ~ 75°C (-40°C ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
Safety and Certifications	CE, EN, LVD, RoHS EN61000-4-5 (for RJ45 Port, Surge 6KV) EN 55032:2015, EN 60950-1:2006 EN 55024:2010+A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 ISO Standard- ISO 9001:2015 ISO 14001:2015 ISO 27001:2013