

KEY FEATURES

- 8*10/100/1000Base-TX RJ45 and 2*1/2.5GBase-X SFP ports
- Industrial Hardened grade, designed to operate in harsh environmental conditions
- Extended PoE and Ethernet transmission up to 250 meters
- Up to 90W per port PoE++ support, IEEE 802.3af/at/bt compatible
- Smart PoE management - PoE watchdog
- ERPS support with recovery time <50ms
- Electric up to 6KV surge protection
- USB port for configuration and upgrading
- Support DI/DO/RS485/Modbus Data
- Operating temperature from -40°C to +75°C
- Redundant and wide power input range with input polarity protection
- Aluminum case, no fan design
- DIN-Rail or Wallmount
- 5 years warranty



INTRODUCTION

The SMG820 series Industrial grade Layer 2 Managed Ethernet Switch comes with 8 * 10/100/1000Mbps RJ45 and 2 * 1/2.5GBase-X SFP ports. The PoE version provides PoE as Power Sourcing Equipment (PSE) up to 90W per port, IEEE 802.3af/at/bt compatible. Smart PoE management allows user to remotely reboot ports and enable PoE watchdog - auto reboot of not responding PoE devices. With in-built Ethernet extender function, signals on copper port can be transmitted & received up to 250meters from remote device, at the same time supplying PoE power. Extra management features as well USB port for one key configuration and DI/DO/RS485/Modbus Data IO ports. Ethernet Ring Protection Switching (ERPS) ensures ultra fast recovery time of less than 50ms. Housed in rugged aluminum Din-rail or wall-mountable IP40 enclosure, no fan design with extreme temperatures operation, makes those Managed Switches a perfect choice for critical environments, such as security, transportation, airports, industrial networking or even military applications.

SPECIFICATIONS

Model	SMG820-D3	SMG820P-D3	SMG820P90-D3
Ports			
RJ45 ports and speed	8 * 10/100/1000Base-TX		
Fiber ports and speed	2 * 1/2.5GBase-X SFP		
Management ports	1 * RJ45 Console 1 * USB 2.0		
I/O ports	1 * DI (Digital Input) 1 * DO (Digital Output) 1 * RS485		

Model	SMG820-D3	SMG820P-D3	SMG820P90-D3
Ethernet			
Switching Bandwidth	26Gbps		
Packet Forwarding	38.6Mpps		
Max Packet Length	10K		
Packet Buffer	12M		
MAC Address Table	16K		
PoE	n/a	Ports 1-8: IEEE 802.3af/at, up to 30W per port (240W Total)	Ports 1-2: IEEE 802.3af/at/bt, up to 90W per port; Ports 3-8: IEEE 802.3af/at, up to 30W per port (240W Total)
Supported Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z IEEE802.3x, IEEE 802.1D, IEEE 802.1w, IEEE802.1Q IEEE802.1X, IEEE 802.1ab, IEEE 802.3ad, ITU-T G.8032		
L2 Management			
Port Features	Static & Dynamic aggregation, 1G/2.5G aggregation IEEE802.3x flow control, Traffic statistics, Port isolation Network storm suppression based on port bandwidth Many to one port mirroring		
VLAN	Supports Access, Trunk and Hybrid modes		
VLAN Classification	Mac Based, IP Based, Protocol Based		
QinQ	Port-based, VLAN-based, Flow-based		
DHCP	Support DHCP client & DHCP snooping		
ACL	IP Standard, MAC extend, IP extend		
Redundancy protocols	STP, RSTP, ITU-T G.8032 ERPS, MSTP		
Multicast	IGMP snooping V1/V2/V3		
QoS	Supports QoS Class, Remarking, SP WRR queue scheduling Policy-based QoS Ingress/Egress port based rate limit		
Security	Supports 802.1x, Port authentication MAC authentication, RADIUS service Supports Port-security, IP Source Guard IP/Port/MAC binding ARP-check and ARP packet filtering for illegal users		
Management & Maintenance	Web based management SNMP V1/V2C/V3, Telnet/SSH server LLDP, RMON alarm, NTP, Ping Tracert, TFTP client, IPv6 PoE Management		

Model	SMG820-D3	SMG820P-D3	SMG820P90-D3
Environmental			
Operating Temperature	-40°C ~ +75°C		
Storage Temperature	-40°C ~ +85°C		
Relative Humidity	5 ~ 90% non-condensing		
MTBF	>200.000h		
Electrical and Physical			
Redundant Power Inputs	12-58VDC	44-57VDC	
Max Power consumption	10W	250W	
Input polarity protection	Yes		
Case	IP40 aluminum case		
Cooling	Natural cooling, no fan design		
Dimensions (H * D * W)	158 * 115 * 54mm		
Weight	~1.1kg		
Mounting	Din-rail / Wallmount		
Certifications			
Standards	Surge protection for power: IEC 61000-4-5 6KV/4KV (8/20us) Surge protection for Ethernet ports: IEC 61000-4-5 6KV/2KV (10/100us) Radiation immunity (RS): IEC 61000-4-3 Electrostatic Discharge (ESD): IEC 61000-4-2 CE 2014/30/EU EMC, EN 55032:2015, EN 55035:2017 EN 61000-3-2:2014, EN 61000-3-3:2013 CE 2014/35/EU LVD, EN62368-1:2014+A11:2017 FCC Part 15, Subpart B:2016, ANSI C63.4:2014 RoHS 2011/65/EU and 2015/863/EU		

ORDERING INFORMATION

Model name	Description
SMG820-D3	Managed L2 Industrial Switch 8*10/100/1000Base-TX RJ45 and 2*1/2.5GBase-X SFP ports, DI/DO/RS485, USB, redundant 12-58VDC inputs, Din-Rail
SMG820P-D3	Managed L2 Industrial Switch 8*10/100/1000Base-TX RJ45 PoE and 2*1/2.5GBase-X SFP ports, DI/DO/RS485, USB, redundant 44-57VDC inputs, Din-Rail
SMG820P90-D3	Managed L2 Industrial Switch 8*10/100/1000Base-TX RJ45 PoE++ and 2*1/2.5GBase-X SFP ports, DI/DO/RS485, USB, redundant 44-57VDC inputs, Din-Rail

OTHER

SFP modules and Power supplies are not included and to be purchased separately

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