Vikings Technology

SMG420 series
Managed L2 Industrial Switch

KEY FEATURES

- 4*10/100/1000Base-TX RJ45 and 2*1000Base-X SFP ports
- Industrial Hardened grade, designed to operate in harsh environmental conditions
- Extended PoE and Ethernet transmission up to 250 meters
- Smart PoE management - PoE schedule & auto reboot
- ERPS support with recovery time <50ms
- Electric up to 4KV surge protection
- Operating temperature from -40ºC to +75ºC
- Redundant and wide power input range with input polarity protection
- Compact aluminum case, no fan design
- DIN-Rail or Wallmount
- 5 years warranty

INTRODUCTION

The SMG420 series Industrial grade Layer 2 Managed Ethernet Switch comes with 4 * 10/100/1000Mbps RJ45 and 2 * 1000Base-X SFP ports. The PoE version provides PoE as Power Sourcing Equipment (PSE) up to 30W each port. Smart PoE management allows user to set PoE schedule, remotely reboot PoE ports and enable 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. 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.

Managed Switches

SPECIFICATIONS

Model	SMG420-D1	SMG420P-D1
Ports		
RJ45 ports and speed	4 * 10/100/1000Base-TX	
Fiber ports and speed	2 * 1000Base-X SFP	
Management ports	1 * RJ45 Console	

Model	SMG420-D1	SMG420P-D1
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	12Gbps	
Packet Forwarding	17.8Mpps	
Max Packet Length	10K	
Packet Buffer	1M	
MAC Address Table	8K	
PoE	n/a	Ports 1-4: IEEE 802.3af/at, max output 30W per port (120W 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 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	
Redundancy protocols	STP, RSTP, ITU-T G.8032 ERPS	
Multicast	IGMP snooping V1/V2/V3	
QoS	Ingress/Egress port based rate limit	
Security	Support 802.1x Port authentication MAC authentication RADIUS service	
Management & Maintenance	Web based management SNMP V1/V2C/V3 Telnet/SSH server LLDP RMON alarm NTP Ping Tracert TFTP client IPv6 PoE Management	

Model	SMG420-D1	SMG420P-D1
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	6W	126W
Input polarity protection	Yes	
Case	IP40 aluminum case	
Cooling	Natural cooling, no fan design	
Dimensions (H * D * W)	130 * 98 * 30mm	
Weight	~0.6kg	
Mounting	Din-rail / Wallmount	
Certifications		
Standards	Surge protection for power: IEC 61000-4-5 4KV/2KV Surge protection for Ethernet ports: IEC 61000-4-5 4KV/2KV 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
SMG420-D1	Managed L2 Industrial Switch 4*10/100/1000Base-TX RJ45 and 2*1000Base-X SFP ports, redundant 12-58VDC inputs, Din-Rail
SMG420P-D1	Managed L2 Industrial Switch 4*10/100/1000Base-TX RJ45 PoE and 2*1000Base-X SFP ports, redundant 44-57VDC inputs, Din-Rail

OTHER

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

CE FC RoHS 3 COMPLIANT EU 2015/863

Vikings Technology Co. Ltd.   www.vikingstechnology.com   sales@vikingstechnology.com