



ikings Technology

SMG820 series

Managed L2 Industrial Switch

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
- Smart PoE management - PoE schedule & auto reboot
- ERPS support with recovery time <50ms
- Electric up to 4KV surge protection
- Operating temperature from -40°C to +75°C
- 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 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 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.

SPECIFICATIONS

| Model | SMG820-D2 | SMG820P-D2 |
|-----------------------|------------------------|------------|
| 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 | |

| Model | SMG820-D2 | SMG820P-D2 |
|--------------------------|---|--|
| Ethernet | | |
| Processing type | Store and Forward | |
| Switching Bandwidth | 26Gbps | |
| Packet Forwarding | 38.6Mpps | |
| Max Packet Length | 10K | |
| Packet Buffer | 2M | |
| MAC Address Table | 16K | |
| PoE | n/a | Ports 1-8: IEEE 802.3af/at, max output 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 | |
| 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 | SMG820-D2 | SMG820P-D2 |
|--------------------------------|---|------------|
| 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) | 130 * 98 * 48mm | |
| Weight | ~700g | |
| 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 |
|------------|--|
| SMG820-D2 | Managed L2 Industrial Switch 8*10/100/1000Base-TX RJ45 and 2*1/2.5GBase-X SFP ports, redundant 12-58VDC inputs, Din-Rail |
| SMG820P-D2 | Managed L2 Industrial Switch 8*10/100/1000Base-TX RJ45 PoE and 2*1/2.5GBase-X SFP ports, redundant 44-57VDC inputs, Din-Rail |

OTHER

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