

KEY FEATURES

- 8*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 & PoE Watchdog (PoE model)
- QoS & Port Isolation
- Electric up to 4KV surge protection
- 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 SUG820 series Industrial grade Ethernet Switch comes with 8 * 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. Inbuilt PoE & Ethernet extender function allows signals to be transmitted & received up to 250meters (ports 1-4), PoE watchdog function, QoS (ports 1-2) and port isolation which all can be easily enabled/disabled by the external DIP switches. Housed in rugged aluminum Din-rail or wall-mountable IP40 enclosure, no fan design with extreme temperatures operation, makes those switches a perfect choice for critical environments, such as security, transportation, airports, industrial networking or even military applications.

SPECIFICATIONS

Model	SUG820-D2	SUG820P-D2
Ports		
RJ45 ports and speed	8 * 10/100/1000Base-TX	
Fiber ports and speed	2 * 1000Base-X SFP	
DIP switches	1. Port Isolation 2. Flow control 3. QoS (ports 1-2) 4. Broadcast storm suppression	1. Port Isolation 2. 250m Extended Ethernet (ports 1-4) 3. QoS (ports 1-2) 4. PoE Watchdog
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	20Gbps	
Packet Forwarding	29.7Mpps	
Max Packet Length	10KB	
Packet Buffer	2Mb	
MAC Address Table	16K	

Model	SUG820-D2	SUG820P-D2
PoE	n/a	Ports 1-8: IEEE 802.3af/at, max output 30W per port (240W Total)
Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3x	
Environmental		
Operating Temperature	-40°C ~ +75°C	
Storage Temperature	-40°C ~ +85°C	
Relative Humidity	0 ~ 90% non-condensing	
MTBF	590.000h	
Electrical and Physical		
Redundant Power Inputs	12-58VDC	44-57VDC
Max Power consumption	8W	248W
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 ports: 4KV/2KV (EN 61000-4-5) Surge protection for Ethernet ports: 4KV/2KV (EN 61000-4-5) Vibration: IEC 60068-2-6:2007 Shock: IEC 60068-2-27:2008 Free fall: IEC 60068-2-32:1975 CE 2014/30/EU EMC, EN 55032:2015/A11:2020, EN 55035:2017/A11:2020 EN 61000-3-2:2019/A2:2024, EN 61000-3-3:2013/A2:2021/AC:2022-01 EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-4:2012 EN 61000-4-5:2014/A1:2017, EN 61000-4-6:2023 CE 2014/35/EU LVD, EN IEC 62368-1:2024 FCC Part 15, Subpart B:2016, ANSI C63.4:2014 RoHS 2011/65/EU, (EU) 2015/863, (EU) 2017/2102	

ORDERING INFORMATION

Model name	Description
SUG820-D2	Unmanaged Industrial Switch 8*10/100/1000Base-TX RJ45 and 2*1000Base-X SFP ports, redundant 12-58VDC inputs, Din-Rail
SUG820P-D2	Unmanaged Industrial Switch 8*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

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