



ikings Technology

SUG500 series

Unmanaged Industrial Switch

KEY FEATURES

- 5*10/100/1000Base-TX ports
- PoE+ version up to 30W per port (1-4) output
- Industrial Hardened grade, designed to operate in harsh environmental conditions
- Operating temperature from -40°C to +75°C
- Redundant wide power inputs from 12 to 48VDC
- Power boost technology
- Metal case, no fan design
- DIN-Rail or Wallmount
- 5 years warranty



INTRODUCTION

The SUG500 series Industrial grade Ethernet Switch comes with 5 * 10/100/1000Mbps RJ45 ports. The PoE version, meeting the IEEE802.3af/at standards, provides PoE+ as Power Sourcing Equipment (PSE) up to 30W per each of 1-4 ports. Power boost technology ensures standard PoE+ output while supplying as low as 12VDC power to the switch. Housed in rugged metal Din-rail or wall-mountable 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	SUG500-D5	SUG500P-D5
Ports		
RJ45 ports and speed	5 * 10/100/1000Base-TX	
Fiber ports and speed	N/A	
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	10Gbps	
Max Packet Length	9KB	
Packet Buffer	1Mb	
MAC Address Table	8K	
PoE	Not supported	Ports 1-4: IEEE 802.3af/at, max output 30W per port (120W Total PoE budget) PoE budget 120W @ 48VDC power input PoE budget 90W @ 24VDC power input PoE budget 60W @ 12VDC power input
Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE 802.3x, IEEE 802.3az	

Model	SUG500-D5	SUG500P-D5
Environmental		
Operating Temperature	-40°C ~ +75°C	
Storage Temperature	-40°C ~ +85°C	
Relative Humidity	0 ~ 90% non-condensing	
MTBF	480.000h	
Electrical and Physical		
Power Input	Redundant 12-48VDC	Redundant 12-48VDC See PoE section for min Voltage required
Max Power consumption	5W	125W
Cooling	Natural cooling, no fan design	
Dimensions (H * D * W)	95 * 70 * 30mm	
Weight	~300g	
Mounting	Din-rail / Wallmount	
Certification		
Standards	Surge protection for power ports: 6KV (EN 61000-4-5)	
	Surge protection for Ethernet ports: 6KV (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
SUG500-D5	Unmanaged Industrial Switch 5*10/100/1000Base-TX RJ45 ports, redundant 12-48VDC inputs, Din-Rail
SUG500P-D5	Unmanaged Industrial Switch 4*10/100/1000Base-TX RJ45 PoE and 1*10/100/1000Base-TX RJ45 ports, redundant 12-48VDC inputs, Din-Rail

OTHER

Power supply is not included and to be purchased separately