

KEY FEATURES

- 5*10/100/1000Base-TX RJ45 and 1*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 SUG510 series Industrial grade Ethernet Switch comes with 5 * 10/100/1000Mbps RJ45 and 1 * 1000Base-X SFP ports. The PoE version provides PoE as Power Sourcing Equipment (PSE) up to 30W each of 4 ports. Inbuilt PoE & Ethernet extender function allows signals to be transmitted & received up to 250meters (ports 1-2), 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	SUG510-D1	SUG510P-D1
Ports		
RJ45 ports and speed	5 * 10/100/1000Base-TX	
Fiber ports and speed	1 * 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 1-2) 3. QoS (ports 1-2) 4. PoE Watchdog
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	12Gbps	
Packet Forwarding	17.8Mpps	
Max Packet Length	10KB	
Packet Buffer	1Mb	
MAC Address Table	2K	

Model	SUG510-D1		SUG510P-D1
PoE	n/a		Ports 1-4: IEEE 802.3af/at, max output 30W per port (120W 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	5W	125W	
Input polarity protection	Yes		
Case	IP40 aluminum case		
Cooling	Natural cooling, no fan design		
Dimensions (H * D * W)	130 * 98 * 30mm		
Weight	~600g		
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
SUG510-D1	Unmanaged Industrial Switch 5*10/100/1000Base-TX RJ45 and 1*1000Base-X SFP ports, redundant 12-58VDC inputs, Din-Rail
SUG510P-D1	Unmanaged Industrial Switch 4*10/100/1000Base-TX RJ45 30W PoE and 1*10/100/1000Base-TX RJ45 and 1*1000Base-X SFP ports, redundant 44-57VDC inputs, Din-Rail

OTHER

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

Vikings Technology Co. Ltd.

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CE

FC

RoHS 3

COMPLIANT

EU 2015/863

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