



ikings Technology

SUG1620 series

Unmanaged Industrial Switch

KEY FEATURES

- 16*10/100/1000Base-TX RJ45 and 2*1000Base-X SFP ports
- Extended PoE and Ethernet transmission up to 250 meters & PoE Watchdog (PoE model)
- QoS & Link Aggregation
- Alarm output relay for power failure
- Electric up to 6KV 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 SUG1620 series Industrial grade Ethernet Switch comes with 16 * 10/100/1000Mbps RJ45 and 2 * 1000Base-X SFP ports. 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 Link aggregation 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	SUG1620-D3	SUG1620P-D3
Ports		
RJ45 ports and speed	16 * 10/100/1000Base-TX	
Fiber ports and speed	2 * 1000Base-X SFP	
I/O ports	1 * Alarm output relay for power failure, max 1A@24VDC	
DIP switches	1. Link aggregation 2. Flow control 3. QoS (ports 1-2) 4. Broadcast storm suppression	1. Link aggregation 2. 250m Extended Ethernet (ports 1-4) 3. QoS (ports 1-2) 4. PoE Watchdog
Ethernet		
Processing type	Store and Forward	
Switching Bandwidth	36Gbps	
Packet Forwarding	53.5Mpps	
Max Packet Length	10KB	
Packet Buffer	2Mb	
MAC Address Table	8K	

Model	SUG1620-D3		SUG1620P-D3
PoE	n/a		Ports 1-16: IEEE 802.3af/at, max out-put 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	10W	250W	
Input polarity protection	Yes		
Case	IP40 aluminum case		
Cooling	Natural cooling, no fan design		
Dimensions (H * D * W)	158 * 115 * 54mm		
Weight	~1500g		
Mounting	Din-rail / Wallmount		
Certifications			
Standards	Surge protection for power ports: 6KV/4KV (EN 61000-4-5)		
	Surge protection for Ethernet ports: 6KV/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
SUG1620-D3	Unmanaged Industrial Switch 16*10/100/1000Base-TX RJ45 and 2*1000Base-X SFP ports, redundant 12-58VDC inputs, Din-Rail
SUG1620P-D3	Unmanaged Industrial Switch 16*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

