5*10/100/1000Base-T Industrial PoE Switch with 4-port PoE/PoE+

BSD-IPGS-0005

Features:

- 4*10/100/1000Base-T PoE downlink, 1*10/100/1000Base-T RJ45 uplink
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Dip switch function: 1.Port isolation; 2. 250m long distance; 3. QoS; 4.PoE watchdog
- Support 10K Bytes Jumbo frame
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40 ℃ ~+75℃

Overview

The BSD BSD-IPGS-0005 is the unmanaged industrial grade PoE switch with 4-port 10/100/1000-T PoE downlink and 1-port 10/100/1000Base-T RJ45 uplink. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, it is featuring with port isolation, 250m long distance transmission mode(1-2 ports), QoS(1-2 ports) and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

BSD-IPGS-0005 is also the high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, such as wide range power input 44-57VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40℃ ~+75℃ as well as high-level EMI/EMC capability and so on. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

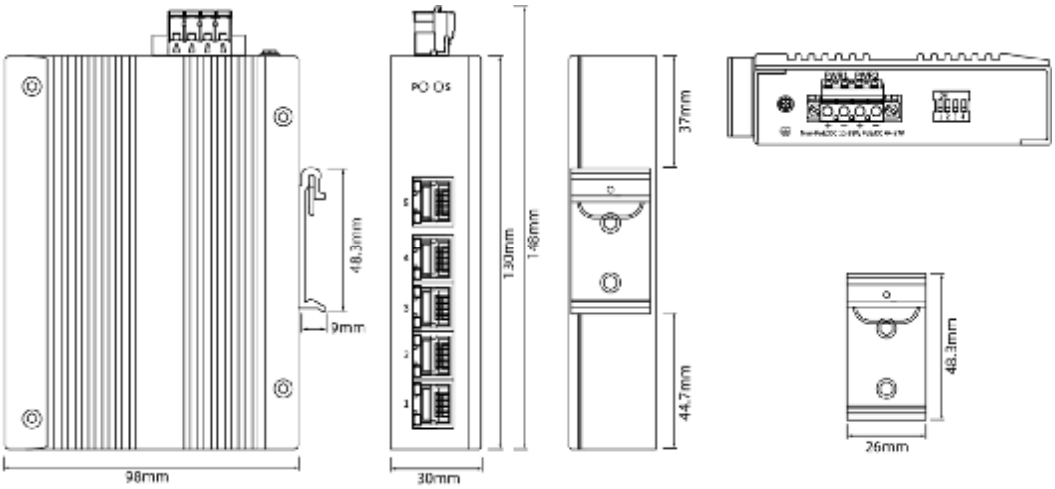
Technical specification

Model No.	BSD-IPGS-0005	
Interface	Fiber port	Copper RJ45 ports
	0	5
Ethernet	4*10/100/1000Base-T RJ45 PoE, 1*10/100/1000Base-T RJ45	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE	
Dip Switch	1. Port Isolation 2. 250m long distance mode(1-2 ports) 3. QoS(1-2 ports) 4. PoE watchdog	
LED Indicators	P(Power indicator) Green	Off: the device is power off or failed
		On: the device power on is normal

	S(PoE usage indicator) Red	Off: total PoE usage < rated 50%	
		Blinking: rated 50% < total PoE usage < rated 90%	
		On: total PoE usage≥rated 90%	
	1-4(Copper ports)	Green indicators	Yellow indicators
		Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
		Blinking: data on TX/RX	
	5 (Copper port)	Green indicators	Yellow indicators
		Off: ports link down	Off: port on 10/100M
		On: ports link up	On: port on 1000M
		Blinking: data on TX/RX	
Power parameters			
Input voltage	44-57VDC, redundant power input		
Input current	3A Max		
Total power consumption	Full loading without PoE ≤5W PoE power budget ≤120W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Switching features			
Switching capacity	10G		
Packet forwarding rate	14.8 Mpps		
MAC address table	2K		
VLAN	4K		
Buffer	3M		
Forwarding delay	<5us		

Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*98*130mm
Weight	0.51 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95% （non-condensing）
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
	DIP: IEC 61000-4-11 Level 3 （10V）
	ESD: IEC 61000-4-2 Level 4 （8K/15K）
	Shock： IEC 60068-2-27
	Free fall： IEC 60068-2-32
	Vibration： IEC 60068-2-6
Certification	CCC/CE/FCC/RoHS
Warranty	5 years

Structure diagram



Order information

Model	Description
BSD-IPGS-0005	5-port 10/100/1000Base-T industrial PoE switch with 4*10/100/1000Base-T PoE ports downlink and 1*10/100/1000Base-T RJ45 uplink, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Operation temperature: -40℃～+75℃