8*10/100/1000Base-T PoE + 2*1000Base-X SFP Industrial PoE Switch

BSD-IGPS0208GSFP

Features:

- 8*10/100/1000Base-T RJ45 PoE ports, 2*1000Base-X SFP (/SC/ST/FC optional) ports
- 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-IGPS0208GSFP are the unmanaged industrial grade PoE switches with 8-port 10/100/1000-T PoE and 2-port 1000Base-X fiber optical interfaces. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, they are also featuring with port isolation, 250m long distance transmission mode(1-4 ports), QoS(1-2 ports) and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

BSD-IGPS0208GSFP series are also high cost-effective easy-to-use devices, which provide 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 ° C to 75 ° C as well as high-level EMI/EMC capability and so on. They are 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

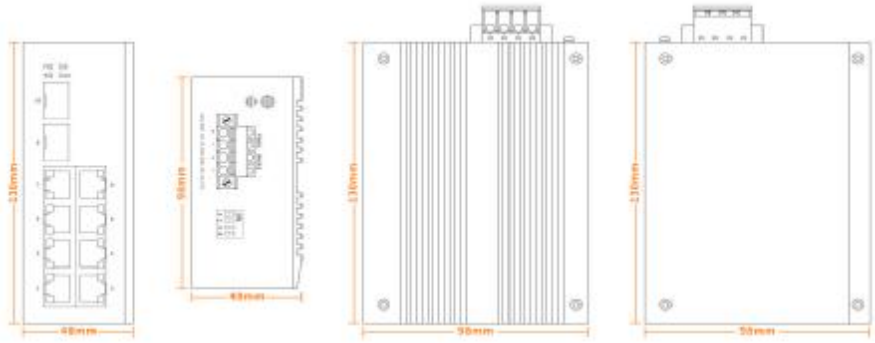
Model No.	BSD-IGPS0208GSFP	
Interface	Fiber ports	Copper RJ45 ports
	2	8
Ethernet	8*10/100/1000Base-T PoE 2*1000Base-X SFP(SC/ST/FC optional)	
Standard	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-over-Ethernet IEEE 802.3at Power-Over-Ethernet Plus PSE	
Dip Switch	1. Port Isolation 2. 250m long distance mode(1-4 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%	
	1-8 (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	
	9-10(Fiber ports) Green	Off: ports link down	
		On: ports link up	
		Blinking: data on TX/RX	
Power parameters			
Input voltage	44-57VDC, redundant power input		
Input current	5.6A Max		
Total consumption	Full loading without PoE ≤7.5W PoE power budget ≤240W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Switching features			
Switching capacity	20G		
Packet forwarding rate	29.7 Mpps		
MAC address table	16K		
VLAN	4K		
Buffer	2M		
Forwarding delay	<5us		
Jumbo Frame	Support 10Kbytes		
MDX/MIDX	Support		
Watchdog	Support		

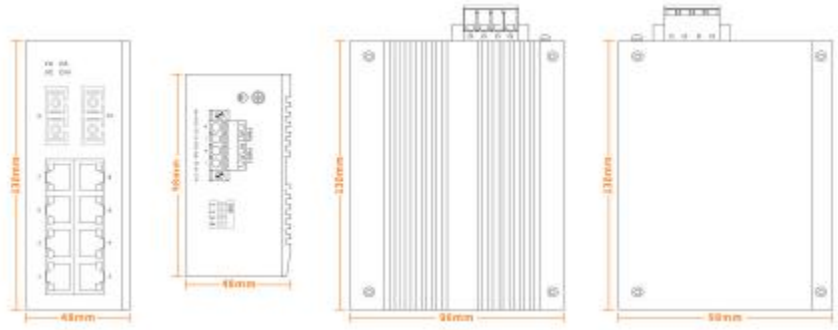
Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	48*98*130mm
Weight	0.72 kg
Operating environment	
Operating temperature	-40 ~+75
Storage/transportation temperature	-40 ~+85
Relative humidity	5%~95% （non-condensing）
Industry 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

SFP model



SC/ST/FC model



Order information

Model	Description
BSD-IGPS0208GSFP	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 8*10/100/1000Base-T PoE ports and 2*1000Base-X SFP slots, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40℃～+75℃