



4\*10/100/1000Base-T PoE + 1\*1000Base-X Industrial PoE Switch

BSD-IGPS0104GSFP



#### Features:

- ⌚ 4\*10/100/1000M RJ45 PoE ports, 1\*1000Base-X SFP(/SC/ST/FC optional) fiber port
- ⌚ 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 °C ~+75°C



## Overview

The BSD BSD-IGPS0104GSFP series are unmanaged industrial grade PoE switches with 4-port 10/100/1000-T PoE and 1-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 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-IGPS0104GSFP 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-IGPS0104GSFP	
Interface	Fiber port	Copper RJ45 ports
	1	4
Ethernet	4*10/100/1000Base-T PoE 1*1000Base-X SFP (SC/ST/FC optional)	
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



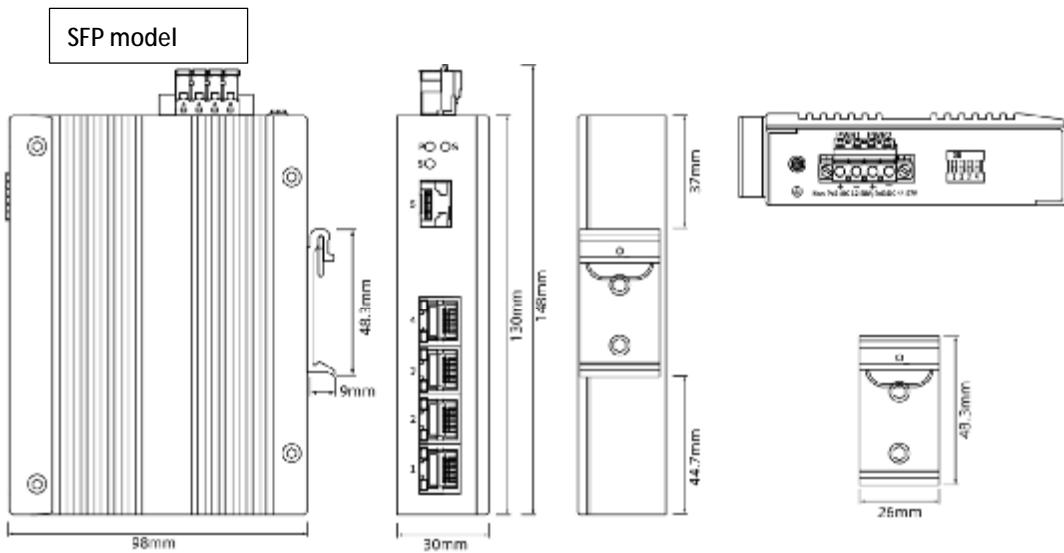
		On: the device power on is normal	
	S(PoE usage indicator) Red	Off: total PoE usage < rated 50%	
		Blinking: rated 50% < total PoE usage < rated 90%	
		On: total PoE usage ≥ rated 90%	
		Green indicators	Yellow indicators
	1-4(Copper ports)	Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
		Blinking: data on TX/RX	
	5 (Fiber port) Green	Off: ports link down	
		On: ports link up	
		Blinking: data on TX/RX	
<b>Power parameters</b>			
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		
<b>Switching features</b>			
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°C~+75°C
Storage/transportation temperature	-40°C~+85°C
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-IGPS0104GSFP	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 4*10/100/1000Base-T PoE ports and 1*1000Base-X SFP slot, 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°C~+75°C