



IGPS-1082GP-BT

Industrial unmanaged 10-port Gigabit High power PoE++ Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. and 2x100/1000Base-X, SFP socket

Features

- Provide 8 x 10/100/1GBase-T(X) P.S.E copper ports with 2 x 100/1GBase-X fiber ports
- **P.S.E. fully compliant with IEEE802.3af/at/bt** standard, provide up to 90Watts per port and total power budget is 240W.
- Support up to **9.6K** Bytes Jumbo Frame
- Support up to **4Mbit** Packet buffer
- Support auto-negotiation and auto-MDI/MDI-X
- Support store and forward transmission
- Support flow control
- Provided relay output for power failed warning system
- Provide DIP switch to setting SFP speed
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

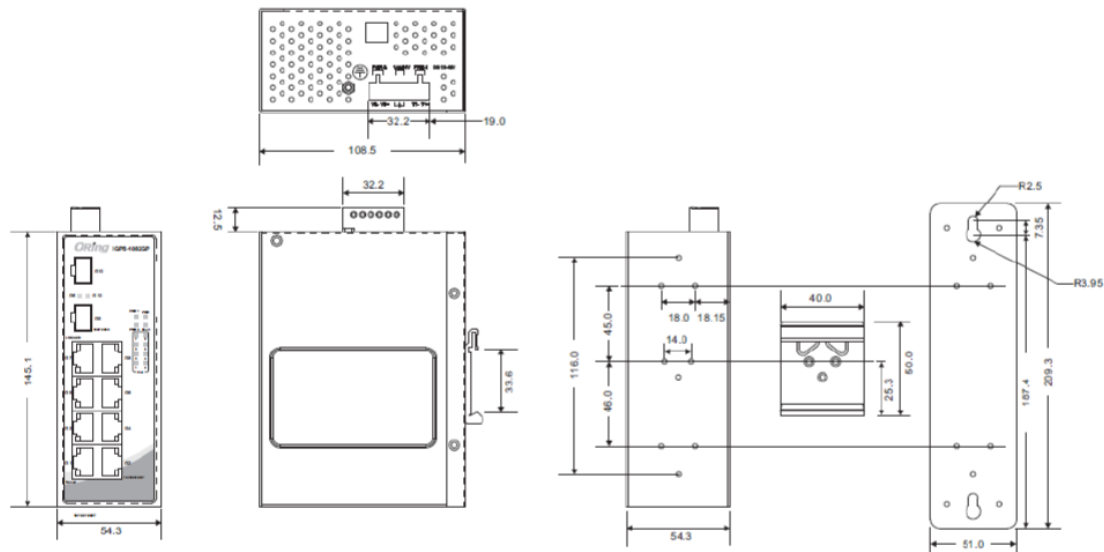


Introduction

IGPS-1082GP-BT is full Gigabit unmanaged PoE Ethernet switches with 8x10/100/1000Base-T(X) bt P.S.E. ports and 2x100/1000Base-X SFP ports. Each IGPS-1082GP-BT switch has 8x10/100/1000Base-T(X) bt P.S.E. (Power Sourcing Equipment) ports and support IEEE 802.3bt type 3 and type 4, the maximum power up to 90W and total power budget is 240W. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE connection. And support wide operating temperature from -40 °C to 75 °C. Therefore, the switch is one of the most reliable choices for rolling stock and highly-unmanaged PoE Ethernet application.

Dimensions

Dimension (Unit = mm)



Specifications

ORing Switch Model	IGPS-1082GP-BT
Physical Ports	
10/100/1000Base-T(X) with bt P.S.E. Ports in RJ45 Auto MDI/MDIX	8 (P.S.E. with IEEE 802.3af/at/bt)
100/1000Base-X with SFP port	2
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3af/at PoE specification IEEE 802.3bt PoE specification
MAC Table	8k
Processing	Store-and-Forward
Switch Properties	Switching latency: less than 7μs Switching bandwidth: 20Gbps
Jumbo frame	Up to 9.6K Bytes
Packet buffer	4Mbit
LED indicators	
Power Indicator (PWR)	Green: Power LED x 3
Fault Indicator (Fault)	Amber: Indicate power failed even warning
10/100/1000Base-T(X) RJ45 PoE Port Indicator	Upper for Link/Act indicator, Green for Port Link/Act indicator Lower dual color LED for speed indicator: Green for 1000Mbps / Amber for 100Mbps / off-light for 10Mbps
100/1000Base-X SFP Port Indicator	Green for port Link/Act.
PoE Indicator	Green for af/at/bt PoE enable indicator
PoE Utilization	0% /50%/ 75% /100%
DIP Switch	
4 Poles (1)	G9 SFP speed setting: (OFF) 1000M, (ON) 100M
4 Poles (2)	G10 SFP speed setting: (OFF) 1000M, (ON) 100M

4 Poles (3)	Power-1 failure warning: (OFF) disable, (ON) enable
4 Poles (4)	Power-2 failure warning: (OFF) disable, (ON) enable
8 Poles	RJ45 Port failure alarm: (OFF) disable, (ON) enable
Rotate Switch	
PoE Management	1: 60W, 2: 120W, 3: 180W, 4: 240W (Default), 5-8: Reserved
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Redundant Input power	Dual DC inputs, 52 ~ 57VDC, 4.85 ~ 4.42A on 6-pin terminal block
Power consumption (Typ.)	12W (without PoE)
bt PoE Power budget	240W
Overload current protection	Present
Reverse Polarity Protection	Present
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	60 x 124 x 145 mm
Weight (g)	TBD g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMC	CE EMC (EN 55035, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55035 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP))
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Safety	EN 62368-1
MTBF	TBD
Warranty	5 years

Ordering Information

IGPS-1AABCC-BT

Code	10/100/1000Base-T(X) P.S.E.			
Definition	Port Number	Additional Port Number	Additional Port Type	Voltage supported type
Option	- 08: 8 ports	- 2: 2 ports	-GP: Gigabit SFP ports	- BT: IEEE 802.3bt
Available Model	Model Name	Description		
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Packing List

- **IGPS-1082GP-BT**
- **Quick Installation Guide x 1**
- **DIN-Rail Kit x 1**
- **Wall-mount Kit x 2**

Optional Accessories

- **SFP100 series : 100Mbps SFP optical transceiver**
- **SFP 1G series : 1Gbps SFP optical transceiver**
- **DR/SDR/DRP 48/24V Series Din rail power supply**