

# IGPS-1042GPA

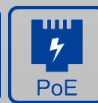


IGPS-1042GPA

➤ **Industrial 6-port Slim type Unmanaged Gigabit PoE Ethernet Switch with 4x10/100/1000Base-T(X) P.S.E and 2x100/1000Base-X, SFP socket**

## Features

- Support 4 ports 10/100/1000Base-T(X) P.S.E ports
- Support IEEE 802.3at compliant PoE and total power budget is 120Watts with maximum 30Watts per port
- Support auto-negotiation and auto-MDI/MID-X
- Support Store and forward transmission
- Support flow control
- Support Jumbo frame up to 10K Bytes
- Provide Relay output for power failed warning system
- Rigid IP-30 housing design
- DIN-rail and wall mounting enable

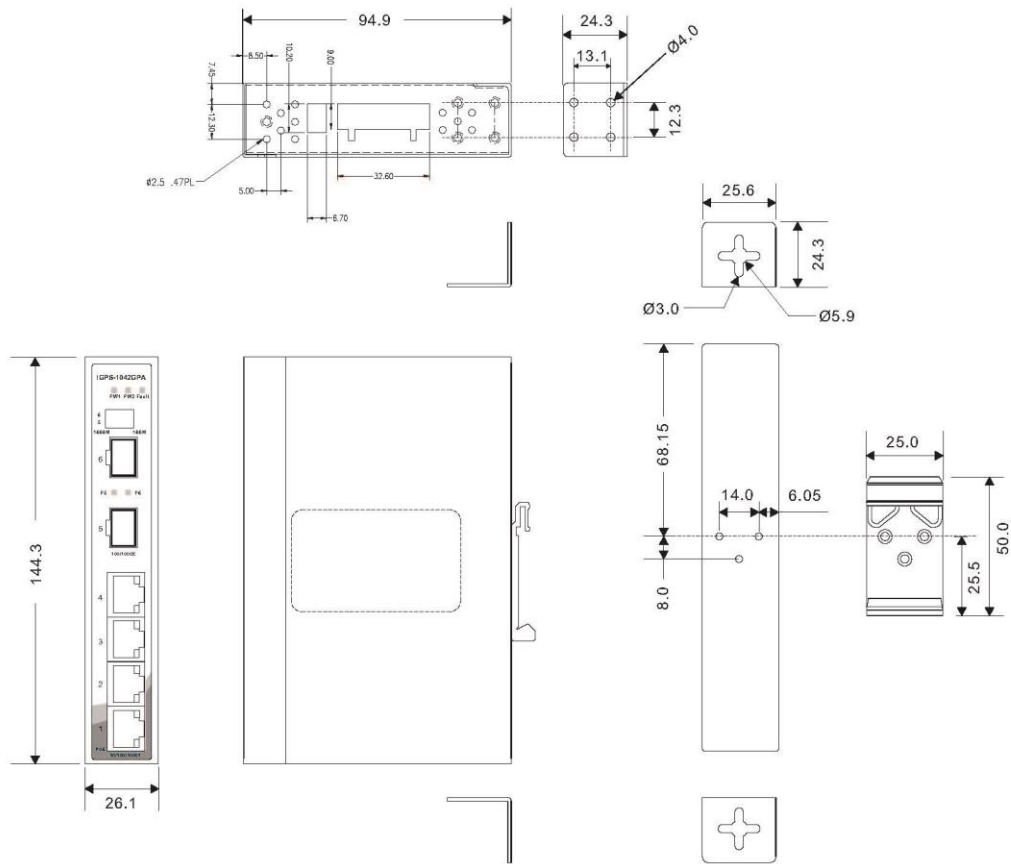


## Introduction

IGPS-1042GPA is an unmanaged Ethernet Switch with 4x10/100/1000Base-T(X) P.S.E ports with 2x100/1000Base-X SFP ports and extended operating temperature range from  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$  for the harsh environments. IGPS-1042GPA supports power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. P.S.E is a device (switch or hub for instance) that will provide power in a PoE setup. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

Dimensions

Unit = mm (Tolerance ±0.5mm)



PoE PIN Definition

10/100Base-T(X) P.S.E RJ-45 port	
RJ-45 PIN Definition	
PIN No.	Description
# 1	TD+ with PoE Power input +
# 2	TD+ with PoE Power input +
# 3	RD+ with PoE Power input -
# 6	RD+ with PoE Power input -

1000Base-T(X) P.S.E RJ-45 port	
RJ-45 PIN Definition	
PIN No.	Description
# 1	BI_DA+ with PoE Power input +
# 2	BI_DA- with PoE Power input +

# 3	BI_DB+ with PoE Power input -
# 4	BI_DC+
# 5	BI_DC-
# 6	BI_DB- with PoE Power input -
# 7	BI_DD+
# 8	BI_DD-

## Specifications

ORing Switch Model	IGPS-1042GPA
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E	4
100/1000Base-X SFP port	2
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3at PoE specification
MAC Table	1024
Packet buffer	1M bits
Processing	Store-and-Forward
Jumbo Frame	10240 Bytes
Switch Properties	Switching latency: 7 us Switching bandwidth: 12Gbps Throughput (packet per second) : 8.688Mpps@64Bytes packet
<b>LED indicators</b>	
Power Indicator (PWR)	Green: Power LED x 2
Fault Indicator	Amber: Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) RJ45 Port Indicator	Upper LED for Link/Act indicator: Green for port Link/Act Lower LED for PoE indicator, Green for PoE power enable
100/1000Base-X SFP port indicator	Green : Port Link/Act
<b>DIP Switch for SFP port speed</b>	
DIP switch 1(SFP Port 6)	ON: 100Mbps, OFF: 1000Mbps(default)
DIP switch 2(SFP port 5)	ON: 100Mbps, OFF: 1000Mbps(default)
<b>DIP Switch for power fail alarm</b>	
DIP switch 1	Power 1 fail warning: ON for Enable, OFF for disable
DIP switch 2	Power 2 fail warning: ON for Enable, OFF for disable
<b>Fault contact</b>	
Relay	Relay output to carry capacity of 1A at 24VDC
<b>Power</b>	
Redundant Input power	Dual 50~57VDC on 6-pin terminal block
Power consumption (Typ.)	<6.5Watts, 0.13~0.11A
PoE Power budget	120W max, 30W per port

Overload current protection	Present
Reverse Polarity Protection	Present
<b>Physical Characteristic</b>	
Enclosure	IP-30 Metal
Dimension (W x D x H)	26.1 (W) x 94.9 (D) x 144.3 (H)mm 1.03 (W) x 3.74 (D) x 5.68 (H) inch
Weight (g)	458 g
Hardware Version	V5.0
<b>Environmental</b>	
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
<b>Regulatory approvals</b>	
EMC	CE EMC (EN 55024, 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 55024 (IEC/EN 61000-4-2 (ESD: Contact 4KV, Air 8KV), IEC/EN 61000-4-3 (RS: 3V), IEC/EN 61000-4-4 (EFT Power 0.5KV, Signal 0.5KV), IEC/EN 61000-4-5 (Surge: Power 0.5KV, Signal 1KV), IEC/EN 61000-4-6 (CS: 3V), IEC/EN 61000-4-8(PFME), IEC/EN 61000-4-11 (DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 60950-1 (LVD)
MTBF	910,925 hrs
Warranty	5 years

## Ordering Information

### IGPS-10A BGPA

Code Definition	10/100/1000Base-T(X) P.S.E Port Number	Additional Port Number	Additional Port Type
<b>Option</b>	<b>-4:</b> 4 ports	<b>-2:</b> 2 port	<b>-GP:</b> Gigabit SFP ports
Available Model	Model Name	Description	
	IGPS-1042GPA	Industrial 6-port slim type unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E and 2x100/1000Base-X, SFP socket	
<b>Packing List</b>		<b>Optional Accessories</b>	
<ul style="list-style-type: none"> <li>IGPS-1042GPA x 1</li> <li>DIN-Rail Kit x 1</li> <li>Wall-mount Kit x 2</li> <li>Quick Installation Guide x 1</li> </ul>		<ul style="list-style-type: none"> <li>DR/SDR/DRP Series DIN-Rail power supply</li> </ul>	