

# IGPS-1080-24V



*Industrial 8-port Unmanaged Gigabit PoE Ethernet Switch with 8x10/100/1000Base-T(X) P.S.E, 24VDC power input*

## Features

- Support 8 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
- Advanced PoE power boost technology to support dual 24VDC power inputs
- Support auto-negotiation and auto-MDI/MID-X
- Support Store and forward transmission
- Support flow control
- Support Jumbo frame up to 9720 Bytes
- Provide Relay output for power failed warning system
- Rigid IP-30 housing design
- DIN-rail and wall mounting enable
- UL 61010-1

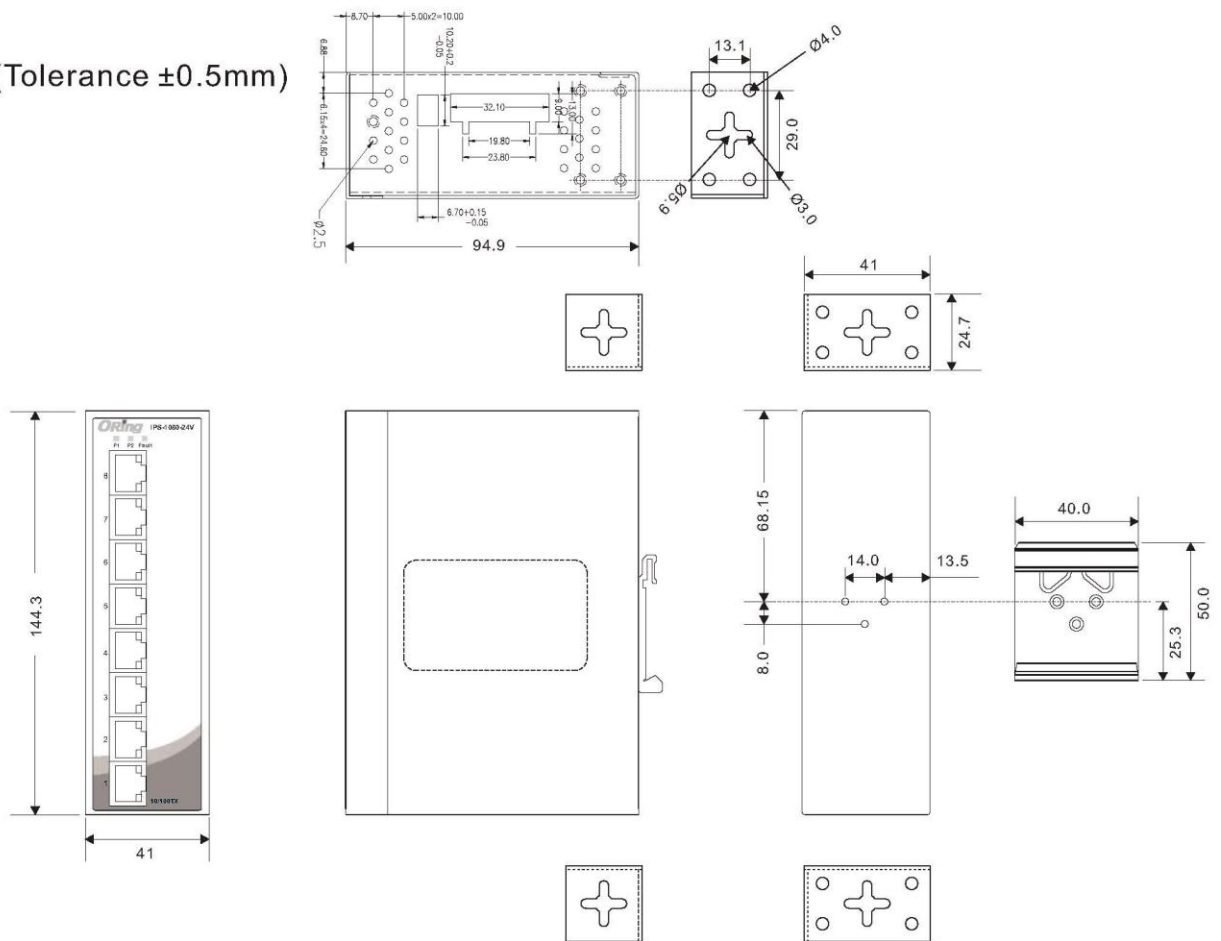


## Introduction

IGPS-1080-24V is unmanaged Ethernet Switch with 8x10/100/1000Base-T(X) P.S.E ports and extended operating temperature range from  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$  for the harsh environments. IGPS-1080-24V 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 and provide wide range power input from 12 to 57VDC. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

Dimensions

Unit =mm (Tolerance  $\pm 0.5\text{mm}$ )



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-1080-24V
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E	8
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3at PoE specification
MAC Table	4K
Packet buffer	192K Bytes
Processing	Store-and-Forward
Jumbo Frame	9720 Bytes
Switch Properties	Switching latency: 7 us Switching bandwidth: 16Gbps Throughput (packet per second) : 11.58Mpps@64Bytes packet
LED indicators	
Power Indicator (PWR)	Green: Power LED x 2
Fault Indicator	Amber: Indicate PWR1 or PWR2 failure
10/100Base-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
DIP Switch	
DIP switch 1	Power 2 fail warning: ON for Enable, OFF for disable
DIP switch 2	Power 1 fail warning: ON for Enable, OFF for disable
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Redundant Input power	Dual 12~57VDC on 6-pin terminal block
Power consumption (Typ.)	6.6A at 12VDC, 5.86A at 24VDC, 2.32A at 57VDC
PoE Power budget	60Watts(12~24VDC) / 120 Watts (24~57VDC)
Overload current protection	Present
Reverse Polarity Protection	Present
Physical Characteristic	
Enclosure	IP-30 Metal

Dimension (W x D x H)	41 (W) x 114.9 (D) x 144.3 (H)mm
Weight (g)	675g
<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), EN50121-4 (compliant), 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, RJ45 1KV), IEC/EN 61000-4-6 (CS: 3V), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP)
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 60950-1 (LVD), UL61010-1,
MTBF	532,527 hours / Standard : Telcordia SR-332
Warranty	5 years

## Ordering Information

**IGPS-10**A**B-24V**



Code Definition	10/100/1000Base-T(X) P.S.E Port Number	Additional Port Number
<b>Option</b>	- <b>8</b> : 8 ports	- <b>0</b> : 0 port

Available Model	Model Name	Description
	IGPS-1080-24V	Industrial 8-port unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X), 24VDC power input
<b>Packing List</b> <ul style="list-style-type: none"> <li>IGPS-1080-24V 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>		<b>Optional Accessories</b> <ul style="list-style-type: none"> <li>DR/SDR/DRP Series DIN-Rail power supply</li> </ul>