



# IGPS-S1082GP

**Industrial 10-port Lite-Managed Gigabit PoE Ethernet Switch with 8x10/100/1000Base-T(X) P.S.E and 2x100/1000Base-X, SFP socket**

## Features

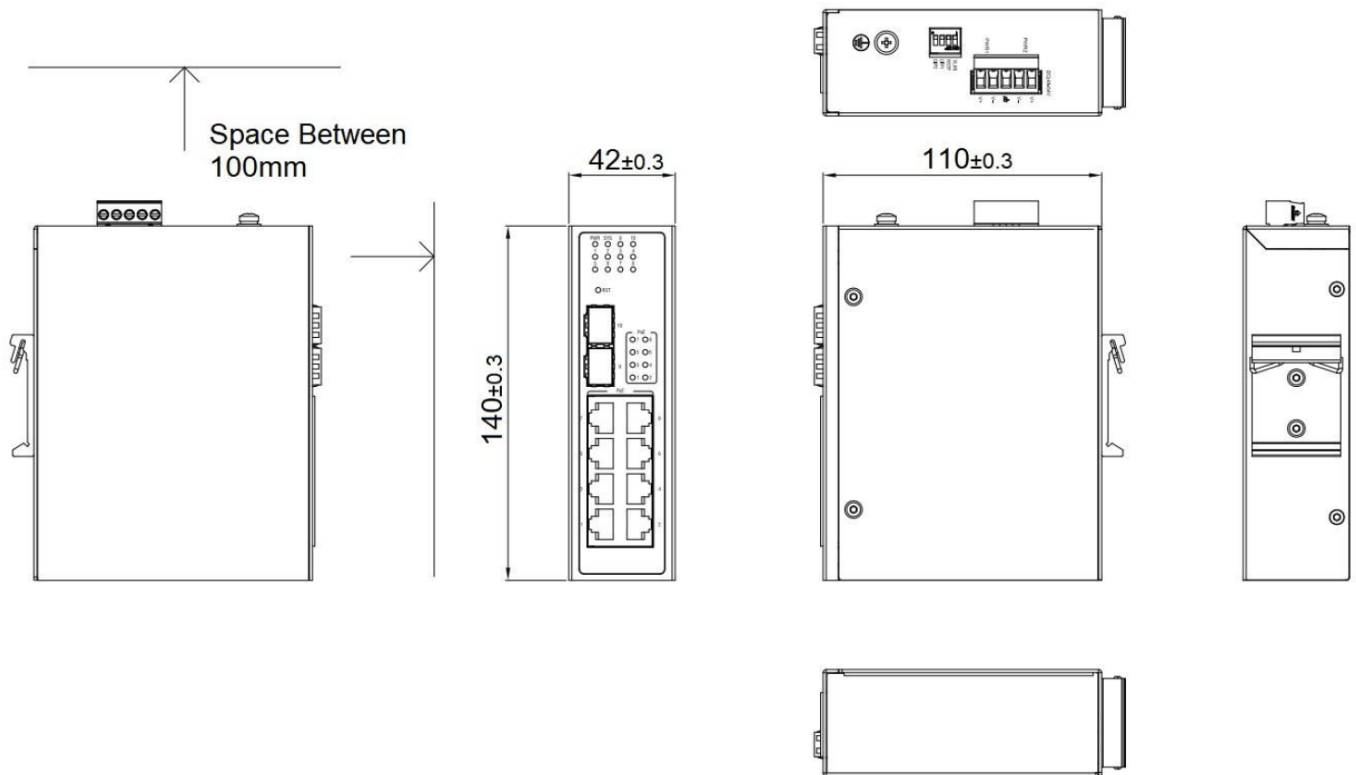
- Fastest Redundant Ethernet Ring : O-Ring (recovery time < 10ms over 250 units of connection)
- Support 8 ports 10/100/1000Base-T(X) P.S.E ports
- Support IEEE 802.3at compliant PoE and total power budget is 240Watts with maximum 30Watts per port.
- Support 2 ports 100/1000Base-X SFP socket
- Support IEEE 802.3az Energy-Efficient Ethernet technology
- Support Quality of Service (QoS)
- Support Broadcast Storm Protection (BSP)
- Support 802.1Q VLAN
- Provide Web/DIP-Switch function to set configuration
- DIN-rail mounting installation



## Introduction

The IGPS-S1082GP is a Lite-managed Ethernet Switch featuring 8x10/100/1000Base-T(X) P.S.E ports alongside 2x100/1000Base-X SFP ports. Designed for harsh environments, it boasts an extended operating temperature range from -40°C to 75°C, making it an ideal economic solution for industrial Ethernet switches. Featuring redundant dual power inputs of 48~54VDC and DIN-Rail mounting, the IGPS-S1082GP offers robust functionality. Each PoE port can deliver up to 30W of power. The switches boast a rugged aluminum alloy housing and IP40 protection class, ensuring durability and resilience. Having successfully passed high-level EMI/EMC tests, they emerge as standout choices for rolling stock and PoE Ethernet applications, offering unmatched reliability.

## Dimensions



## 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-S1082GP
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E	8
100/1000Base-X with SFP port	2
<b>Technology</b>	
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 802.3az Energy-Efficient Ethernet IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1Q for VLAN Tagging
MAC Table	4K
Priority Queues	4
Processing	Store-and-Forward
Jumbo Frame	16K Bytes
Switch Properties	Switching latency: 2 $\mu$ s Switching bandwidth: 20Gbps Max. Number of Available VLANs: 4094 VLAN ID Range: VID 1 to 4094 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define
Security Features	Enable/disable ports VLAN (802.1Q) to segregate and secure network traffic
Software Features	Redundant Ring (O-Ring) with recovery time less than 30ms over 250 units Quality of Service (802.1p) for real-time traffic Port configuration, status, statistics, monitoring, security DHCP Client Port Trunk Loop prevention Port mirroring Storm Control Cable Diagnostic
Network Redundancy	O-Ring slave mode
<b>LED indicators</b>	
Power Indicator (P1/P2)	Green: Power LED
10/100/1000Base-T(X) RJ45 Port Indicator	Port 1~8 LED : Green for port Link/Act POE indicator: Green for POE output
100/1000Base-X SFP Port Indicator	Port 9, 10 : Green for port Link/Act
<b>Power</b>	
Redundant Input power	Dual 48~54VDC

Power consumption (Typ.)	5 Watts (without PoE)
PoE Power budget	240W max
Overload current protection	Present
<b>Physical Characteristic</b>	
Enclosure	IP-40 Metal
Dimension (W x D x H)	42 (W) x 110 (D) x 140 (H) mm
Weight	526 g
<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 55035, EN 55032), FCC Part 15 B
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 62368-1 (LVD)
Warranty	5 years

## Ordering Information

**IGPS-S10A B C C**



Code Definition	10/100/1000Base-T (X) P.S.E Port Number	Additional Port Number	Additional Port Type
<b>Option</b>	- <b>8</b> : 8 ports	- <b>2</b> : 2 port	- <b>GP</b> : Gigabit SFP ports

Available Model	Model Name	Description
	IGPS-S1082GP	Industrial 10-port Lite-Managed Gigabit PoE Ethernet Switch with 8x10/100/1000Base-T(X) P.S.E and 2x100/1000Base-X, SFP socket

**Packing List**

- IGPS-S1082GP x 1
- DIN-Rail Kit x 1
- Quick Installation Guide x 1

**Optional Accessories**

- DR/SDR/DRP Series DIN-Rail power supply
- SFP100 series: 100Mbps SFP Optical transceiver
- SFP 1G series: 1Gbps SFP Optical transceiver