IGPS-1082GP Series

Industrial Unmanaged Gigabit PoE Switch

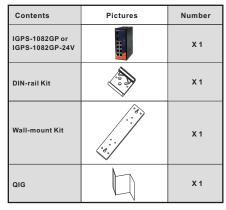
Quick Installation Guide

Introduction

The IGPS-1082GP series, which includes the IGPS-1082GP and the IGPS-1082GP-24V models, are full Gigabit unmanaged PoE Ethernet switches with 8x10/100/1000Base-T(X) P.S.E. ports and 2x100/1000Base-X SFP ports. To enable higher cost efficiency, the series support Power-over-Ethernet, a technology that transmits electrical power along with data on a standard twisted-pair cable. The total power budget for IGPS-1082GP and IGPS-1082GP-24V is 180W and 120W respectively, both with maximum 30W per port. Configuration of SFP speed is made easy with a 4-pin DIP switch which can also be set to send power failure alerts. With a wide operating temperature range from -40°C to 75°C and dual power inputs, they can work perfectly in harsh environments.

Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

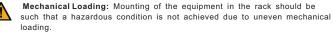


Preparation

Before you begin installing the switch, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety & Warnings

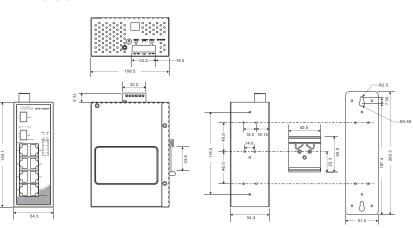
- Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised

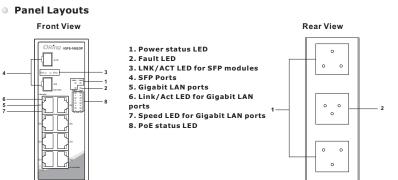


Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate

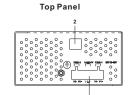
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Dimension





1. Wall-mount screw holes 2. Din-rail screw holes

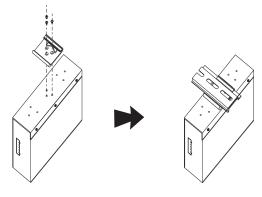


1. Terminal blocks: PWR1, PWR2 , Relay 2. DIP switch

Installation

• DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle of the back panel. Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into the rail firmly.

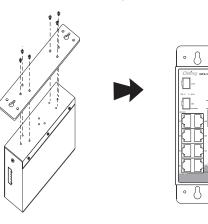


Wall-mounting

Step 1: Screw the wall-mount kit onto the rear panel of the switch. A total of six screws are required, as shown below.

Step 2: Use the switch, with wall mount plates attached, as a guide to mark the correct locations of the four screws.

Step 3: Insert a screw head through the large parts of the keyhole-shaped apertures, and then slide the switch downwards. Tighten the screws for added stability.



Dip Switch

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	DIP-Switch 1	Power-2 failed warning : (ON) enable, (OFF) disable
DIP-Switch 2 Power-1 failed warning : (ON) enable		Power-1 failed warning : (ON) enable, (OFF) disable
Г	DIP-Switch 3	DIP switch 3 and 4 (ON) : SFP speed setting to 100Mbps
	DIP-Switch 4	DIP switch 3 and 4 (OFF) : SFP speed setting to 1000Mbps(default)

Network Connection

The switch provides standard Ethernet ports. According to the link type, the switch uses CAT 3,4,5,5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

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POE SWITCH

Quick Installation Guide

Cable Types and Specifications:

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45
1000BASE-T	Cat. 5 / Cat. 5e 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

For pin assignments for different types of cables, please refer to the following tables.

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1A@24V

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10/100Base-T(X) P.S.E. RJ-45 Port		
Pin No.	Assignments	
# 1	TD+ with PoE Power input +	
#2	TD- with PoE Power input +	
#3	RD+ with PoE Power input -	
#6	RD- with PoE Power input -	
	•	

10/100 Base-T(X) MDI/MDI-X			
Pin Number	MDI port	MDI-X port	
1	TD+(transmit)	RD+(receive)	
2	TD-(transmit)	RD-(receive)	
3	RD+(receive)	TD+(transmit)	
4	Not used	Not used	
5	Not used	Not used	
6	RD-(receive)	TD-(transmit)	
7	Not used	Not used	
8	Not used	Not used	

#8 BI_DD-

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

Wiring

Power inputs

The switch supports dual redundant power supplies, Power Supply1 (PWR1) and Power Supply 2 (PWR2). The connections for PWR1, PWR2 and the RELAY are located on the terminal block. STEP 1: Insert the negative/positive wires into the V-/V+ terminals,

respectively. STEP 2: To keep the DC wires from pulling loose, use a small flatblade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.

Relay contact

The two sets of relay contacts of the 6-pin terminal block connector are used to detect userconfigured events. The two wires attached to the fault contacts form an close circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains opened.

Grounding

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screws to the grounding surface prior to connecting devices.

Configurations

After installing the switch, the green power LED should turn on. Please refer to the following tablet for LED indication.

IGPS-1082GP Series

LED	Color	Status	Description
PW	Green	On	Power is on
PW1	Green	On	DC power module 1 activated
PW2	Green	On	DC power module 2 activated
Fault	Amber	On	Errors occur
Gigabit Ether	Gigabit Ethernet ports		
ACT/LNK	Green	On	Port is connected
	Green	On	Port runs at 1000Mbps
Speed	Amber	On	Port runs at 100Mbps
	Green/Amber	Off	Port runs at 10Mbps
PoE	Green	On	PoE power is enabled
SFP ports			
LNK/LNK	Green	On	Port is connected

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 55024, EN 55032), FCC Par	: 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), 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	IEC60068-2-27	
Free Fall	IEC60068-2-31	
Vibration	1EC60068-2-6	
Safety	EN60950-1 compliant	
Warranty MTRF (brs)	5 years 581633 hrs	537330 hrs

Industrial Unmanaged Gigabit PoE Switch

Specifications

ORing Switch Model	IGPS-1082GP	IGPS-1082GP-24V		
Physical Ports				
10/100/1000Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX	8 (P.S.E. with IEEE 802.3at)			
100/1000Base-X with SFP port		2		
Technology				
Ethernet Standards	IEEE 802.3 for 108xas-T IEEE 802.3 tor 108bas-T IEEE 802.3 ab for 10008as-F IEEE 802.3 ab for 10008as-X IEEE 802.3 for Flow control IEEE 802.3 for Flow control IEEE 802.3 stor Flow control			
MAC Table	вк			
Processing	Store-and-Forward			
Switch Properties	Switch latency: less than 7us Switch 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 Port Indicator	Green for port Link/Act. Green for PoE enable indicator.			
100/1000Base-X SFP Port Indicator	Green for port Link/Act.			
DIP Switch				
DIP-Switch 1	Power-2 failed warning : (ON) enable, (OFF) disable			
DIP-Switch 2	Power-1 failed warning : (ON) enable, (OFF) disable			
DIP-Switch 3	DIP switch 3 and 4 (ON) : SFP speed setting to 100Mbps			
DIP-Switch 4	DIP switch 3 and 4 (OFF) : SFP speed setting to 1000Mbps(default))		
Fault Contact				
Relay	Relay output to carry capacity of 1A at 24VDC			
Power				
Redundant Input power	Dual DC inputs. 50-57VDC on 6-pin terminal block	Dual DC inputs. 12-57VDC on 6-pin terminal block		
Power consumption(Typ.)	11 Watts	11 Watts		
PoE Power budget	180 Watts	60W at 12~24VDC, 120W at 24~57VDC		
Overload current protection	Present			
Reverse Polarity Protection	Protection Present			
Physical Characteristic				
Enclosure	IP-30			
Dimension (W x D x H)	54.3(W)x108.5(D)x145.1(H) mm (2.13x4.27x5.71 inch.)			
Weight (g)	889 g 916 g			

