

User Manual

IGP-1001

10-Port Gigabit PoE Industrial Switch, 8 PoE Outputs, 2 x Gigabit SFP/RJ45 Combo

FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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Introduction

This IGP-1001 Industrial 10 port Gigabit PoE Switch complies with IEEEE802.3af and IEEE802.3at, and pass many rigorous environment tests. It delivers 30Watts (Max 36Watts) power per PoE port, also generates up to 240Watts power to PD devices. The uplink 2 Gigabit TX/SFP Combo ports can extend to a multiple network connection. With its multi-purpose design, which can also be used for Din-Rail or Wall Mounted. This is an ideal unit for IP surveillance, traffic monitoring and security applications. It can tolerate -40 to +75°C in harsh environment to perform a reliable network.

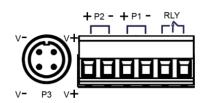
Installation package

The following items are shipped with this device:

- Din-Rail Mounted * 1
- Wall-Mounted * 2
- Screws * 4
- 6 pin Terminal Block * 1

Power connection

This product provides 6 pin terminal block. The PoE port can be operated on 48-56VDC power source. The VDC power range can be 48VDC only or wide range from 48-56VDC. Please always make sure that your input voltage is the supported voltage range for each model.





To make power connection—

This device can receive 3 power inputs (P1, P2 and P3), follow the printed polarity for V1+,V1-, V2+, V2- and ground. Connect positive wire to V+, connect negative wire to V- and also connect neutral wire to the ground screw as shown.

Relay-

This relay function monitor power failure. You may use 24V@1A relay connection to your external alarm device to monitor power status. Relay function will only work with P1 and P2. When P1 and P2 are connected, the relay is in "OPEN" mode the LED RLY indicator will go OFF. When only P1 or P2 is connected, the relay is in "SHORT" mode, the LED RLY indicator will go "ON".

Power connecting procedure:

Step1—Pull out 6 pin terminal block

Step2—Connect wire to V1+, V1-, V2+, V2- and also connect the earth/ground wire to the ground screw

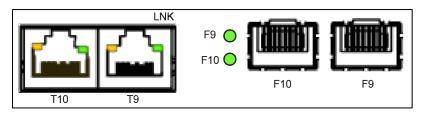
Step3—Plug back 6 pin terminal block to its place

*For P3 connection—Use an external industrial graded power adapter to make proper connection. Follow the priority sign V+ and V-

Warning— Any exceeded input voltage will not make this product function properly and may damage it.

Warning— Always ground the power source to remain a clean power input. Many low-end power supplies produce too much noise which can produce PoE detection failure. To avoid this, always ground the power source to gain a clean power input.

TX/SFP Combo power connection



For multiple network application, this product provides two Gigabit TX/SFP Combo ports network connection. The recommend port connection combination lists as below table.

Link 1	Link 2	LED indicator (Green)	TX LNK LED (Green)
F9	F10	F9 ON, F10 ON	T9 OFF, T10 OFF
F9	T10	F9 ON, F10 OFF	T9 OFF, T10 ON
T9	F10	F9 OFF, F10 ON	T9 ON, T10 OFF
Т9	T10	F9 OFF, F10 OFF	T9 ON, T10 ON

^{*}Please Do NOT connect the F9, F10, T9 and T10 port at the same time. It will cause the uplink malfunction and unexpected damage to this device.

LED indicator

LED	Color	State	Description
P1	Green	ON	Power is detected
		OFF	Power is not detected
P2	Green	ON	Power is detected
		OFF	Power is not detected
Р3	Green	ON	Power is detected
		OFF	Power is not detected
RLY	Amber	ON	Connect only PW1 or PW2
		OFF	Connect both PW1 and PW2
F9	Green	ON	F9 SFP port is detected
		Flashing	F9 SFP data is transmitting/receiving
F10	Green	ON	F10 SFP port is detected
		Flashing	F10 SFP data is transmitting/receiving
TX LNK	Green	ON	TX port is detected
		Flashing	TX data is transmitting/receiving
TX PoE	Yellow	ON	PSE is activated and PD is detected
		Flashing	PSE is detecting PD

Specification

	TEEE 900 2 10Baco T Ethamat
	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
IEEE Chandand	IEEE 802.3ab 1000Base-T Gigabit Ethernet
IEEE Standard	IEEE 802.3z 1000Base-X Gigabit Ethernet
	IEEE802.3x Flow Control and Back Pressure,
	IEEE802.3af for POE
	IEEE802.3at for POE+
Switch Architecture	Back-plane (Switching Fabric): 26 Gbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	10KB
MAC address Table Size	16K
Packet Buffer Size	2M
	8 x RJ-45 10/100/1000BaseT(X) auto negotiation,
Network Connector	Auto MDI/MDI-X function, Full/Half duplex
Network connector	8 x Gigabit POE+ 802.3at/af PSE port, 30W per port
	2 x 100/1000M TX/SFP Combo
Network Cable	UTP/STP Cat.5e or above Cable
	EIA/TIA-568 10-ohm (100m)
Protocol	CSMA/CD
Reserve polarity protection	Present
Overload current protection	Present
	P1 and P2 for Redundant Dual DC 48V-56V
	P3 for Power DIN to connect external power adapter
Power Supply	DC 48-56V
	For Switch only Power input range DC 12-56VDC
	For POE Power input range 48-56VDC
Power Consumption	5.76W@48 VDC full load, Without POE
	Relay outputs with current carrying capacity of 1 A
Alama Dalay Caratast	@24VDC, for PW1 and PW2
Alarm Relay Contact	Relay in open circuit mode when 2 powers are
	connected. In short circuit mode when only one power
	supply is connected
	Input Voltage 48VDC-56VDC.
POE power	POE power per port 30watts. Maximum 36Watts with
	56VDC input.
	Maximum total power 240Watts with 56VDC input
	Provide 2 Redundant powers, Alarm relay contact, 6
	Pin for PW1 and PW2 (PW3 is an independent Power
	din connection for external power adapter)
Removable Terminal Block	Wire range: 0.34mm^2 to 2.5mm^2
	Solid wire (AWG):12-24/14-22
	Stranded wire(AWG): 12-24/14-22
	Torque:5lb-In/0.5Nm/0.56Nm Wire Strip longth: 7-8mm
	Wire Strip length: 7-8mm

Operating Temperature	-40°C~75°C fully tested.			
Operating Humidity	5% to 95% (Non-condensing)			
Storage Temperature	-40°C~85°C			
MTBF (mean time between failure)	>500,000 hrs. (MIL-HDBK-217F) at 25°C			
Housing	Rugged Metal, IP30 Protection			
Case Dimension (L x W x D)	155mmx48mmx120mm (L x W x D)			
Installation mounting	DIN-Rail mounting and Wall Mounting			
Certificates				
EN55022/24	ITE equipment			
EN55011	Industrial, Scientific and Medical (ISM) equipment			
Safety	IEC EN60950-1			
EMC/EMS	CE, FCC, VCCI			
EMI	FCC Part 15 Subpart B Class A,			
	CE EN 55022 Class A			
EN 50155 / EN 60068-2-6	Vibration			
EN 50155 / EN 60068-2-27	Shock			
EN 50155 / EN 60068-2-32	Free Fall			

Housing Dimension (mm)

