IGP-0802

8-Port Industrial Gigabit Ethernet PoE Switch,

8PoE Outputs, 802.3at PoE+, 200W

User Manual

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.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.
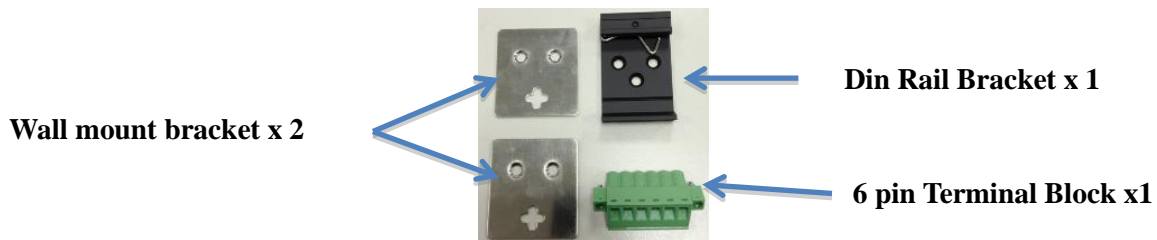
Trademarks:
All trade names and trademarks are the properties of their respective companies.

Installation package:

This unit can be installed by din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted bracket are included.

Wall mount bracket x 2

Din Rail Bracket x 1

6 pin Terminal Block x1

Power connection:

This industrial Fast Ethernet 8 port POE switch is equipped with 4 x 10/100/1000M PSE port, each port can deliver 30W POE power. It comes with a 6 pin terminal block. It can be connected with 48-56VDC power source. Always Make sure to use 56VDC for IEEE802.3at or 30W power connection.

WARNING – any exceeded input voltage will not make this unit function and may damage this unit.
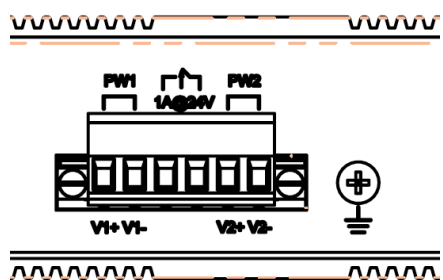
To make power connection – Follow the printed polarity for V1+, V1-, V2+, V2-, and ground. Connect positive wire to V+ , connect negative wire to V-, also connect neutral wire to the ground screw as shown .

Relay -- You may use 24V@1A relay connection to your external device for special purpose. When 2 powers are connected, the relay is in OPEN mode. When any power source fails, the relay change to SHORT status.

Power connecting procedure:

STEP 1 – Pull out 6 pin terminal block.
STEP 2 – Connect wire to V1+, V1-, or V2+, V2-, and Ground the neutral wire to the ground screw.
STEP 3– Plug back 6 pin terminal block to its place.

WARNING –
Always ground the power source to maintain a clean power input. Due to too many cheap made power supplies, it creates too much noise, and it will cause the power input fluctuates when connect to this unit. To avoid this, always ground the power source to gain a clean power input.

LED indicator:

Industrial Ethernet Switch

8   7   6   5   4   3   2   LNK 1   POE
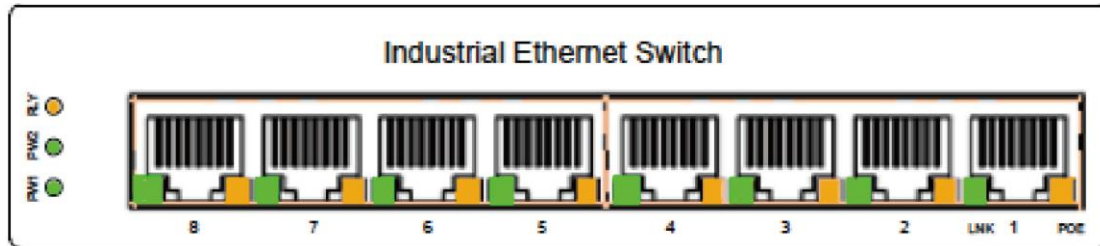
PW1
ON -- when V1+, V1- is connected

PW2
ON -- when V2+, V2- is connected

Relay LED Amber
ON one power is connected
OFF two powers are connected

Green LED ---
ON =Link
Flash = TX/RX.

Amber LED ---
ON = POE detected
OFF = POE not detected
Flash = POE detecting.

Specification:

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet 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): 16Gbps
Data Processing	Store and Forward
Flow Control:	IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	9KB
MAC address Table Size	1K
Packet Buffer Size	1M
Network Connector :	8xRJ-45 10/100/1000BaseT(X) auto negotiation, 8x POE+ 802.3at/af PSE port Auto MDI/MDI-X function, Full/Half duplex
Network Cable	UTP/STP above Cat.5e Cable
	EIA/TIA-568 10-ohm (100m)
Protocol	CSMA/CD
LED	PW1(Power 1) Green, PW2(Power 2) Green, SW(relay) Amber,
	TX/RJ-45 port: LNK (Link/Active) Green, Amber: POE Detected
Housing	Heavy Metal Housing
Reserve polarity protection	Present
Overload current protection	Present
Power Supply	Redundant Dual DC 48V-56V Power Input POE input 48-56VDC
Power Consumption	5.76W@48 VDC full load, Without POE

Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in short circuit mode when 2 powers are connected. in open circuit mode when only one power supply is connected
POE power	POE power per port 30watts. Maximum 36Watts Maximum total power 200Watts with 56VDC input, Supports IEEE802.3af/at
Removable Terminal Block	Provide 2 Redundant power , Alarm relay contact ,6 Pin 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 length: 7-8mm
Operating Temperature	-20℃~70℃ fully tested. (T model -40℃ to 75℃ also available)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40℃~85℃
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25℃
Housing	Rugged Metal ,IP30 Protection
Case Dimension (L x W x D)	142mmx36.2mmx105mm (LxWxD)
Installation mounting	DIN Rail mounting and Wall Mounting
Certifications:	
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: