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User Manual-DY-H8080XR

Hardened Industrial 8 port Gigabit Flat PoE Switch, 8 x 10/100/1000 TX 30W PSE,

48-56VDC input voltage, operating temp.: -40°C to +75°C

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 55032/24 class A for ITE, the essential protection requirement of Council Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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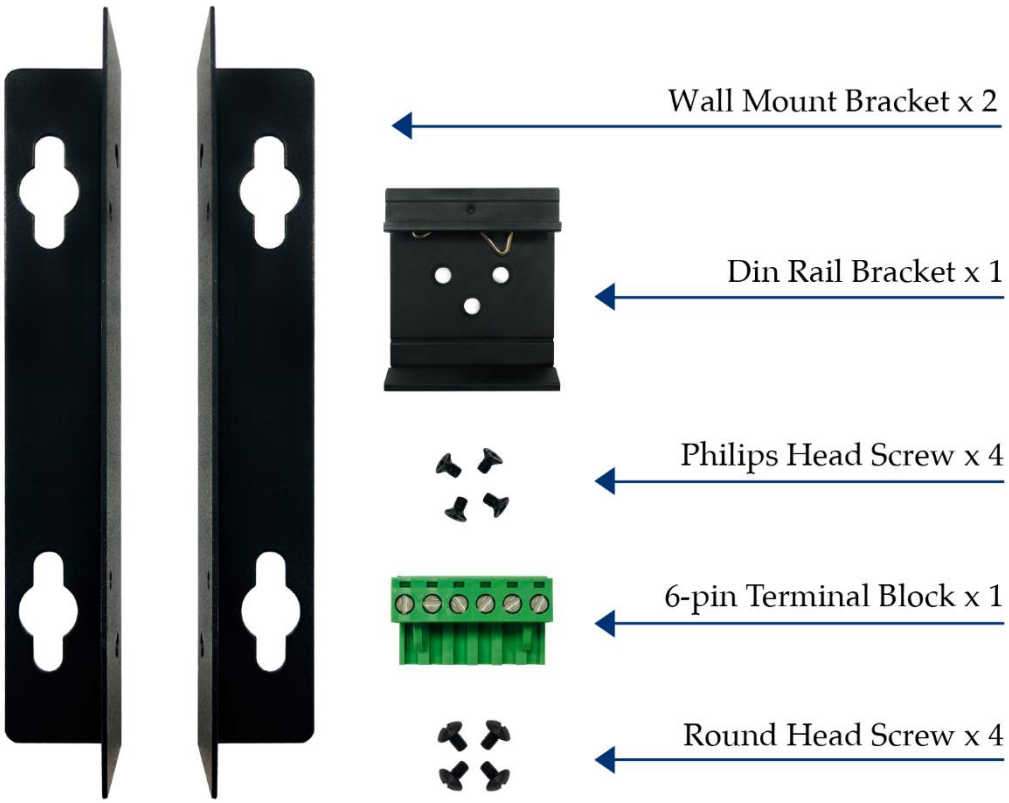
Introduction:

This Industrial 8 port POE switch is designed for IP surveillance, traffic monitoring and for a broad range of applications. The unique flat design is perfect for space-limited environments, such as a shallow cabinet or a small enclosure. It is equipped with 8 x 30W PSE ports, and can deliver up to 200 Watts of power to your PD devices. It can be used as a stand-alone device for buses, trucks, and other vehicles for surveillance purposes. It has been rigorously tested for your security, transportation and telco applications.

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Installation package:

This unit can be wall mounted or din-rail mounted. Wall mount brackets and din-rail bracket are included.



Power connection

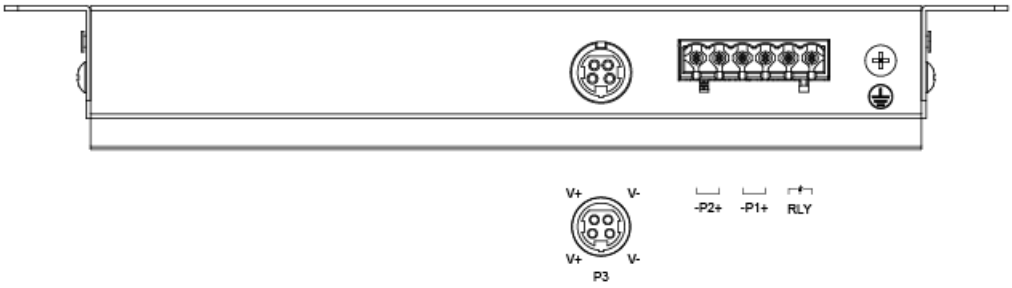
This unit provides a 6 pin terminal block. PoE functions can be operated from 48-56VDC power input. Always make sure your input voltage is within this supported voltage range for each model.

<u>WARNING</u> – any exceeded input voltage will not make this unit function and may damage this unit.

This unit comes with 3 power input sources. P1, P2, and P3.
To connect power: Follow the printed polarity for P1+, P1-, P2+, P2-, and ground. Connect positive wires to P1+ and/or P2+, connect negative wires to P1- and/or P2-, and connect the neutral wire to the ground screw as shown.
Power DIN: This unit contains an extra P3 port for power DIN. This power DIN can power the unit via external power adapter.
Relay: This unit includes an additional 24V@1A relay circuit for special purpose. When 2

powers are connected, the relay is in OPEN mode. If only one of the power sources is connected, the relay changes to SHORT mode. This relay will only work with P1 and P2. It is independent from P3.

Power connecting procedure:

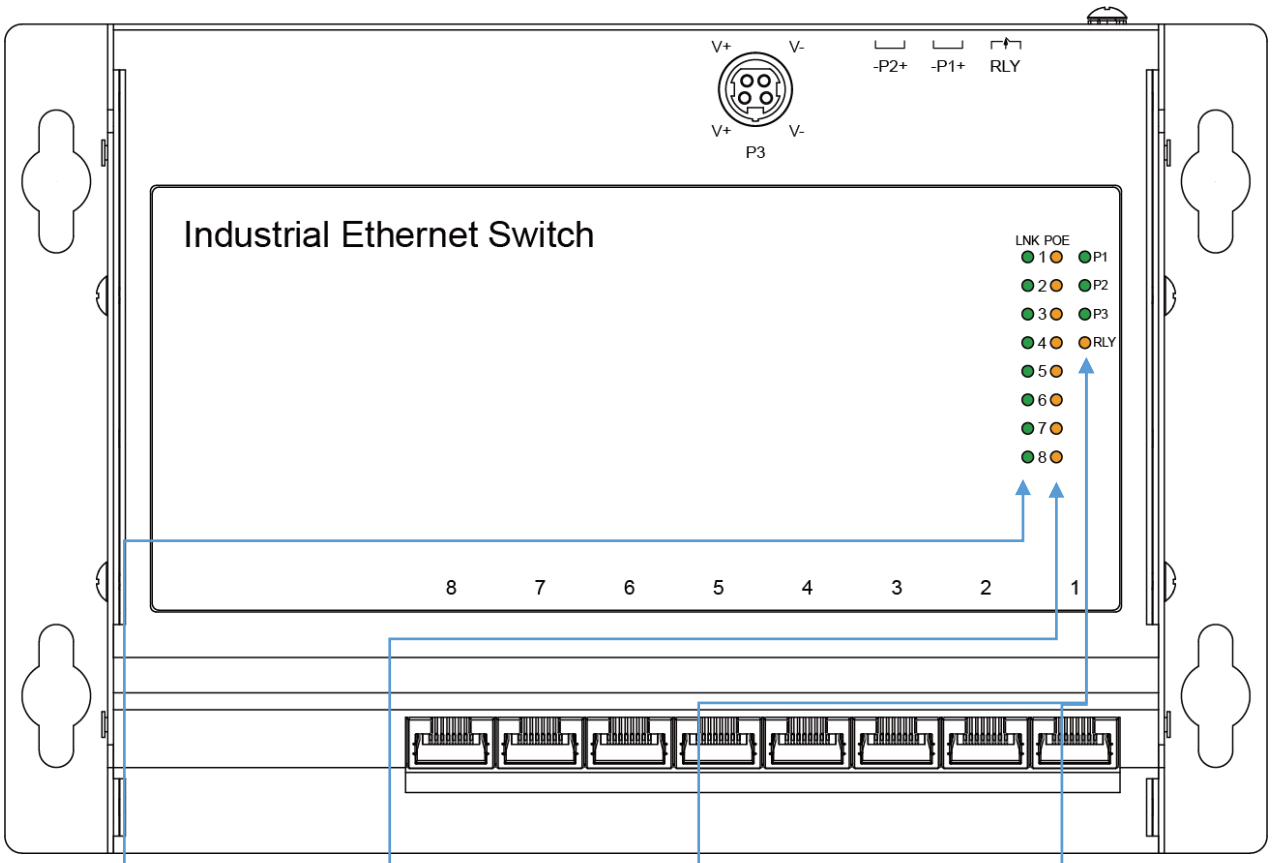


STEP 1 – Pull out 6 pin terminal block.
STEP 2 – Connect wire to P1+, P1-, P2+, P2-, and the neutral wire to the ground screw.
STEP 3– Plug connected 6 pin terminal block back into place.
Or, Connect the P3 power DIN from external power adapter.

WARNING -- Always SHUT OFF power source to connect power wire.
WARNING -- Always ground the power source to maintain a clean power input. Cheaply made power supplies create too much noise and will cause the power input to fluctuate when connected to this unit. To avoid this, always ground the power source to maintain a clean power input.

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LED indicator



Lnk (Green)
ON—TX port is detected
OFF – TX port is not detected
Flashing – TX port is active

PoE (Amber)
ON – PD is detected on designated port.

PW1(Green)
ON -- P1+, P1- is connected
PW2(Green)
ON -- P2+, P2- is connected
PW3 (Green)
ON—P3 is connected via Power DIN

RLY(Amber)
ON –
Only PW1 or PW2 is connected
OFF-
both PW1 and PW2 are connected

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Specification

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure, IEEE 802.3af for POE IEEE 802.3at 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	4K
Packet Buffer Size	1Mbits
Network Connector	8 x RJ-45 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex 8 x Gigabit POE+ 802.3at/af PSE port, 30W per port
Network Cable	UTP/STP above Cat.5e Cable
	EIA/TIA-568 10-ohm (100m)
Protocol	CSMA/CD
LED	PW1 (Green): ON—Power 1 is detected PW2 (Green): ON—Power 2 is detected PW3 (Green): ON—Power 3 is detected for Power DIN RLY (Amber): ON—Connect only PW1 or PW2 OFF—Both PW1 and PW2 are connected
	TX/RJ-45 port: LNK (Link/Active) (Green): ON—TX port is detected Flashing—TX data is transmitting/receiving POE (Amber): ON—PD is detected and PSE is activated OFF—PD is not detected
Reserve polarity protection	Present
Overload current protection	Present
Power Supply	Redundant Dual DC 48V-56V Power Input

Power Consumption	5.76W@48 VDC full load, Without POE

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Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in open circuit mode when 2 powers are connected. in short circuit mode when only one power supply is connected
POE power	POE power per port 30watts. Maximum total power 200Watts with 56VDC input, Supports IEEE 802.3af/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 Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40°C to 85°C
MTBF (mean time between failure)	459,123 hrs (Telcordia (Bellcore), GB) at 50°C
Housing	Rugged Metal with Aluminum Plate, IP30 Protection
Case Dimension	150 x 145 x 26.7 mm (L x W x D) 198 x 145 x 26.7 mm (L x W x D) (with brackets)
Installation	DIN Rail Mount or Wall Mount
Certifications:	
Safety	UL 60950-1
Safety	LVD (EN 60950-1)
EMC	CE, FCC, EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV
Vibration	EN 60068-2-6
Shock	EN 60068-2-27
Free Fall	EN 60068-2-32

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Housing Dimension (mm)

