Top panel view

HGW-808S

Top panel has terminal screw block for PWR1 and PWR2 input and M3 grounding screw.

There are two independent and redundant power inputs, marked PWR1 and PWR2. Please observe voltage polarity when wiring power to the screw block connector. Please complete wiring without hot wires and with screw block connector disconnected from switch.

Installation warning

Please make sure of proper electrical grounding availability before powering up device. The unit should be grounded using either the M3 grounding screw or making sure the DIN rail installation or wall mount brackets are correctly grounded. Make sure power wires have adequate gauge for the power required by the unit to avoid risk of wires overheating and any risk of fire. As general rule, please keep power wiring on a different path from data cables and avoid crossing wires. This will reduce the risk of power surges on data ports.

**Rear panel view with DIN rail and wall mounting brackets**
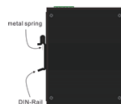

HGW-808S

DIN rail mounting procedure

All Industrial switches from HC, HSW and HGW series have DIN rail bracket mounted from factory to the rear panel of the unit. If Wall mounting is needed, please first remove the DIN rail bracket. If DIN rail bracket needs to be reattached, please make sure the spring is located on top position when unit is vertical.

Step 1 Step 2
Please hold unit as in below image, making sure top of bracket with spring falls onto the top edge of TS-35 DIN rail
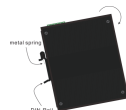
Step 1 Step 2
Rotate and snap the unit onto the DIN rail by pushing the bottom unto the TS-35 DIN rail. Unit will be secured to rail.


To remove unit from rail, please repeat procedure in reverse. Start by pulling out the bottom of unit from the DIN rail.

Wall mounting procedure

HGW series have DIN rail bracket mounted from factory to the rear panel of the unit. If Wall mounting is needed, please first remove the pre-installed DIN rail bracket.
Secure the wall mounting brackets to the switch as in the below diagram. You will need 4x M3 screws for the wall mounting brackets (included) and screws for wall securing that should have head diameter larger than 6mm and screw body less than 3.5mm (these screws are not included in the package)
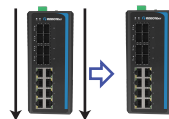
FCC and CE markings

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate
radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

This is a CE class B device, intended to be used in residential, commercial or industrial applications.

Industrial Ethernet
Unmanaged Switch Gigabit Ethernet

HGW-808S

User's Manual

www.robofiber.com

Industrial Ethernet Switches

Ordering Information

HGW-808S Gigabit Ethernet Switch 8x 10/100/1000Base-Tx + 8x 1000Base-X SFP slot ports, DIN rail and Wall installation

Overview

The Industrial Ethernet HGW-808S switch is a high performance and reliable Ethernet device. Model is hardened for -40 to +75℃ operation and has 8KV surge protection on all copper ports. Reliability is highly ranked with an MTBF exceeding 120,000 hours. All Industrial Ethernet models listed in this manual have passed IEC standards as described in the Technical Specifications table. Package includes DIN rail mounting bracket, Wall bracket and screw block power connector.

Switch front plate view
(common front view, may vary with model)

HGW-808S

Features

- IEEE 802.3 10Base-T, 802.3u 100Base-TX, 802.3z 1000Base-T
- Auto-Negotiation and Auto MDI/MDIX
- 8kV Ethernet surge protection on all TP ports
- Full-duplex and Half-duplex flow control modes
- Store and Forward switching mechanism
- Extreme -40 ~ +75℃ operating temperature
- DIN rail or Wall mount installation options, IP40 rated housing

- 9-56V DC wide power input

LED Indicators

	Function
P1, P2	Off – No power available; On – Power is present
Fiber LK/ACT LINK	Off – No link; On – Fiber link OK; Blinking – data traffic present
UTP GREEN	Off – 10M/100M; On – 1000M on RJ45 port
UTP YELLOW	Off – No link; On – UTP link OK; Blinking – data traffic present

Note: Gigabit models require approx. 10 seconds from "Power On" to start operating

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Technical specifications

Model	HGW-808S
TP ports (RJ45)	8 x 10/100/1000
SFP slots	8 x 1000
LEDs	PWR, Fiber LNK/ACT, UTP GRN/YLW
Network Protocols	CSMA/CD
Bandwidth	56G
Packet buffer size	4M
Packet max. size (bytes)	10K
MAC address table size	8K
Safety	CE/LVD EN60950
Power input	DC 9~56V
Reverse Polarity Protection	yes
PoE budget	none
Max PoE power per port	n/a
Mounting DIN rail bracket	yes
Mounting Wall bracket	yes
Operating Temp (℃)	-40 ~ +75
Storage Temp (℃)	-50 ~ +85
Operating Humidity	10 ~ 90% non-condensing
Dimensions (mm) *	160 x 132 x 70
Weight (g)	1,200
MTBF	120,000 hours
Warranty	3 years
Industrial Compliance	
EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS	EN 61000-4-2 (ESD) Level 3 Criteria B, EN 61000-4-3 (RS) Level 3 Criteria A, EN 61000-4-4 (EFT) Level 3 Criteria A, EN 61000-4-5 (Surge) Level 3 Criteria B, EN 61000-4-6 (CS) Level 3 Criteria A, EN 61000-4-8(PFMF, Magnetic Field) Field Strength 300A/m Criteria A
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Rail Traffic	EN 50121-4
Traffic Control	NEMA-TS2

* dimensions are taken with no SFPs inserted, nor power block connectors