Gigabit Ethernet Industrial Switch

ROBOfiber™

HGW-802S

8 x 10/100/1000Base–Tx and 2 x 1000Base-X SFP Industrial Switch

The HGW-802S is an 8 port Gigabit Ethernet 10/100/1000Base-Tx & 2x 1000Base-X non-managed Industrial Ethernet Switch, hardened for extreme operating temperatures: -40 to +75 Celsius. Industrial Switches are housed in IP40 rated rugged metal housings designed to operate in difficult conditions, including mechanically and electrically extreme environments. All Industrial switches have strong surge protection (4kV~8kV) per port, depending on models and strict compliance with IEC and EN standards for industrial grade equipment.
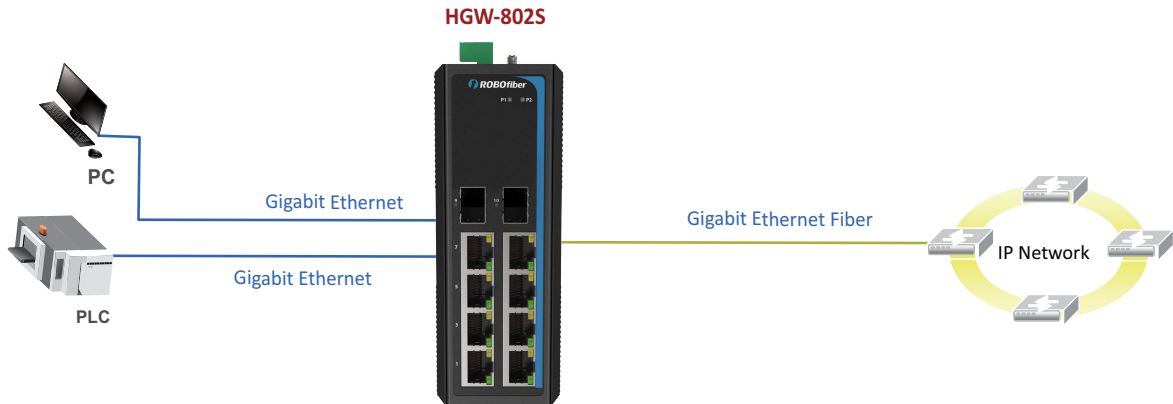
Features

- DC power input block 10-60V
- Extreme operating temperature: -40 to +75 Celsius
- Rugged IP40 rated metal casing with DIN rail bracket
- Store and Forward switching mechanism
- Reversed power polarity protection

- Auto-Negotiation & Auto MDI/MDI-X on every RJ45 port
- Supports 8kV surge protection per port on all TP ports
- Supports IEEE 802.1Q Tag VLAN pass thru
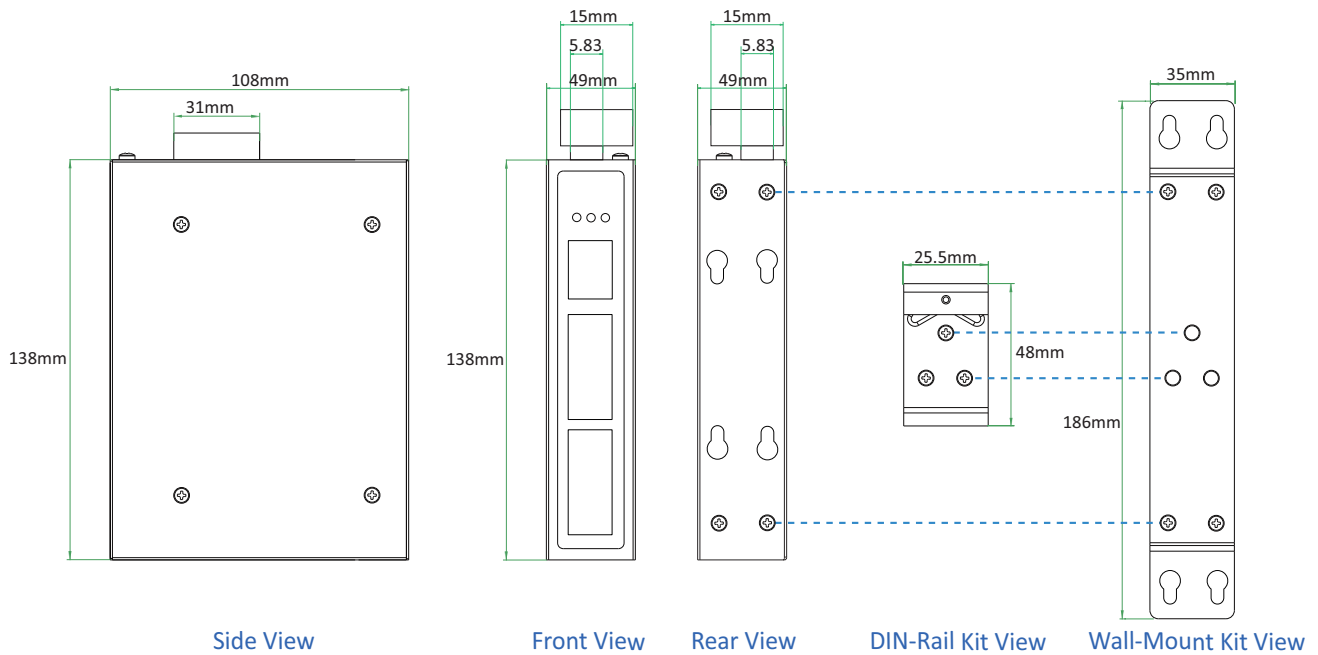- Redundant DC power inputs on every model

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet
	IEEE 802.3ab 1000Base-T and 1000Base-X Gigabit Eth.
	IEEE 802.3x Flow Control and Back Pressure
Switch Architecture	Back-plane (Switching Fabric): 20 Gbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Provides Broadcast Storm Protection	Present
MAC Address Table	4K
Packet Buffer Size	2MB
Ports	8 x RJ-45 10/100/1000Base-Tx 2 x 1000Base-X SFP slot 10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex
Network Cable	10Base-T: 2-pair UTP/STP Cat.5 cable
	100Base-TX: 2-pair UTP/STP Cat. 5 cable
	1000Base-T: 4-pair UTP/STP Cat. 5e cable
	EIA/TIA-568 100-ohm (100m)
Protocols	CSMA/CD
LED	Per unit: PWR (Green) LNK/ACT (Green - Fiber port status and activity)
	Per port: Link/Active (Green), Speed/100 (Yellow)
Reverse Polarity Protection	Present
Overload Current Protection	Present
Power Supply	Redundant Dual DC 12/24/48V (9.6~60VDC) Input power (Removable Terminal Block)

Power Consumption	<15W
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, NC
Removable Terminal Block	Provide 2 Redundant power, Alarm relay contact, 6 Pin
Operating Temperature	-40 ~ 75°C

Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP40 Protection
Dimensions	108 x 49 x 138mm (D x W x H)
Weight	0.65kg
Installation Mounting	DIN Rail mounting or wall mounting
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
	EN61000-6-4 – Emission for industrial environment
EMS	EN61000-6-2 – Immunity for Industrial environment
	EN61000-4-2 (ESD) Level 3, Criteria B
	EN61000-4-3 (RS) Level 3, Criteria A
	EN61000-4-4 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (Magnetic Field) Level 3, Criteria A
Traffic control	NEMA-TS2
Rail Traffic	EN50121-4
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	120,000Hrs
Warranty	3 years

Industrial

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Specifications & design are subject to change without prior notice. Please visit ROBOfiber website for more details.

Application

HGW-802S Gigabit Ethernet Switch Application

Dimensions

Side View   Front View   Rear View   DIN-Rail Kit View   Wall-Mount Kit View

Ordering Information

Model Name	Description
HGW-802S	8x 10/100/1000Base-Tx to 2x 1000Base-X SFP Non-managed Industrial Switch Extreme Temp. (-40~75 Celsius)

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