

Web Smart Industrial Ethernet Switch

The ROBOfiber HGW-402LM-PSE Smart Industrial Ethernet Switch is an innovative product for industrial networking. It is specifically designed for small industrial networks being highly cost-effective. In addition to adopting industry-leading standards, this switch has strong reliable Ethernet transmissions.

Main Features

- A compact, all-aluminum case with a fan-less design
- The temperature from -40 to 75°C maintains performance in extreme conditions
- DIP Switch supports RSTP/VLAN/SPEED settings
- Supports IEEE 802.3af/at/bt PoE standards without damaging non-PoE devices.
- Provides 9K bytes Jumbo frame support that is compatible with multiple extension protocols
- Supports IEEE802.3az energy-efficient Ethernet
- Includes surge protection, for reliable operation in harsh environments
- Offers detailed status indicators, working status being available immediately
- Designed for power input polarity protection
- Either DIN rail or Wall Mount Installation
- Includes an easy-to-use WebGUI interface



Ethernet data exchange, convergence, and long-distance optical transmission are available with efficient bandwidth and reliable fibre optic network management in the newest HGW-402LM-PSE switch. Industrial switches include many characteristics, such as no fan, low power consumption, high reliability and stability, and easy maintenance.

The HGW family of industrial switches relies on mature technology and open network standards. Series are designed to operate at extreme temperatures, with EMI protection, condensation, vibration, fall and shock resistance, and is equipped with redundant power supplies. Industrial switches support standard DIN rail mounts with IP40 protection and are perfect choices for harsh environments.

Product Specifications

Ethernet Interface		
Models	HGW-402LM-PSE	HGW-402LM-BT
Ports	4x10/100/1000Base-TX RJ45 ports + 2x100/1000Base-X SFP ports	
Port Mode(Tx)	Auto-Negotiation Speed Full/Half Duplex Mode Auto MDI/MDI-X Connection	
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging	
Packet Buffer Size	2M	
Maximum Packet Length	Up to 9K	
MAC Address Table	4K	
Transmission Mode	Store and Forward (full/half duplex mode)	
Exchange Property	Delay time: < 7 μ s Backplane bandwidth: 20Gbps	
IGMP Group	256	
VLAN ID Range	VID 1 to 4094	

PoE & Power Supply		
Model	HGW-402LM-PSE	HGW-402LM-BT
PoE Ports	Port 1 to 4 IEEE802.3af/at @PoE+	Port 1 to 4 IEEE802.3af/at/bt @PoE++
Power Supply Pin	Default: 1/2(+), 3/6(-)	Default: 1/2(+), 3/6(-), 4/5(+), 7/8(-)
Max Power Per Port	30W	90W
Total PWR /Input Voltage	120W(DC48-56V) (Model dependent)	200W(DC52-56V) (Model dependent)
Power Consumption	3 Watts Max(without PoE load)	
Power Inputs	2	
Input Voltage	9-56VDC, Redundant dual inputs	
Operating Voltage	Non-PoE Mode: 9-56VDC 30W PoE Mode: 48-56VDC 90W PoE Mode: 52-56VDC(IEEE802.3bt model)	
Connector	1 removable 6-contact terminal blocks Pin 1/2 for Power 1, Pin 3/4 for Power 2, Pin 5/6 for fault alarm	
Protection	Overload Current Protection, Reverse Polarity Protection	

Product Specifications

Software Features	
Redundancy Protocol	Support STP/RSTP
Multicast Support	Support IGMP Snooping V1
VLAN	Support IEEE 802.1Q 4K VLAN, Port Isolation, Trunk Group Setting
QOS	Support Port, 1Q, ACL, DSCP, CVLAN, SVLAN, DA, SA, Port Priority, Queue Weight
Diagnostic Maintenance	Support port mirroring, Port Statistics, Cable Diagnostic
Management Function	WEB、SNMPv1, EEE, Green Ethernet
Security	Broadcast/Multicast Storm Protection, MAC filtering, MAC Constraint
PoE Management(PoE Model)	PoE Mode, State and Power Monitoring
Advance Functions	Bandwidth Control(Ingress and Egress Rate), Jumbo Frame, Firmware Online Upgrade, Configuration Backup

Physical Characteristics	
Housing	Aluminum case
IP Rating	IP40
Dimensions	120mm x 90mm x 35mm (L x W x H)
Installation	DIN Rail/Wall Mount
Weight	350g

Environmental	
Operating Temperature	-40 to 75°C
Operating Humidity	5%~95% (non-condensing)
Storage Temperature	-40°C~85°C
MTBF	907,476 hours @ Telcordia SR-332 Standard
Heat Dissipation	34 BTU/h (Non-PoE Mode) 1262 BTU/h (with 360W PoE Load)
Cooling	Passive Cooling, Fanless Design
Noise Level	0 dBA

LED	State	Description
PWR	ON	Power is being supplied
	OFF	Power is not being Supplied.
RUN	Blinking	The system is running well
Link/ACT (1-6)	ON	Port connection is active
	Blinking	Data transmitted
	OFF	Port connection is not active.

DIP Switch	
#1	RSTP Enable/Disable (Default: Enable)
#2	VLAN Enable/Disable (Default: Disabled)
#3	SFP port fixed speed, ON as 100M (Default: 100/1000M Adaptive)

Notes: 1. RSTP switches to the ON position, which indicates RSTP is in disabled status.

2. VLAN switches to the ON position, which indicates VLAN is in enabled status. All LAN ports are only able to communicate with the SFP uplinks when this option is enabled.

3. To take effect the DIP Switch function while the ethernet switch is in operation, there is a need to reboot the Ethernet switch after tuning the DIP switch.

Product Specifications

Regulatory & Warranty

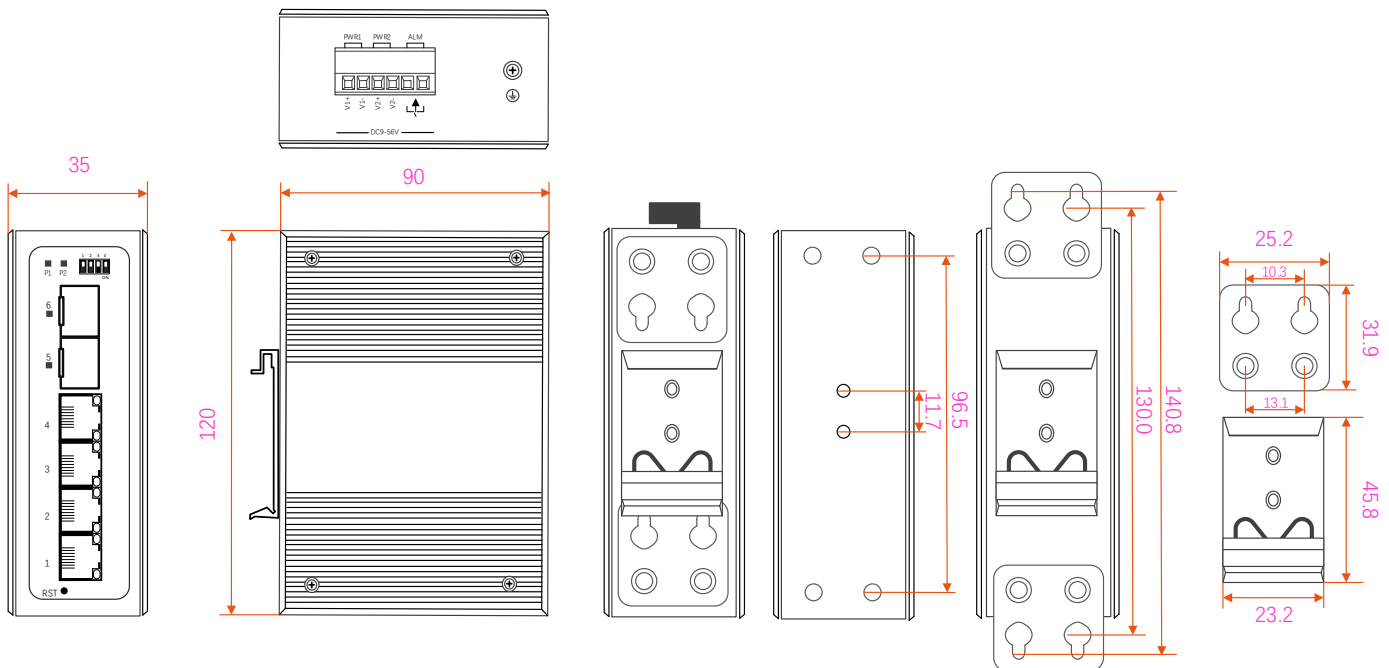
Safety	IEC/EN 62368-1, UL 508
EMI	EN55032 Class A, CISPR 32 FCC Part 15B Class A
EMS	EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS
Warranty	5 Years, for details please visit www.robofiber.com

Package Contents

Device	1x Industrial Ethernet Switch
Installation Kit	2 x Caps, plastic, for SFP Slots Or 2 x Caps, plastic, for SC fiber port Or 2 x Caps, plastic, for ST fiber port 2x Wall-Mount Kits 1x DIN Rail Buckle
Documentation	1 x Quick installation guide 1 x Warranty card 1 x Product notice

Dimensions

Unit: mm



Order Information

HGW-402LM-PSE	4x 10/100/1000Base-Tx and 2x 1000Base-x SFP slots Gigabit managed switch PoE+ 120W budget
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