

8 port Gigabit Ethernet Switching hub DC24V PoE/PSE 【MGS-0800-TBB0】

User's Manual

Please read carefully before use

The main body of the device generates some heat when the power is turned on. Normal use of the device will not affect the human body or cause the device to catch fire.

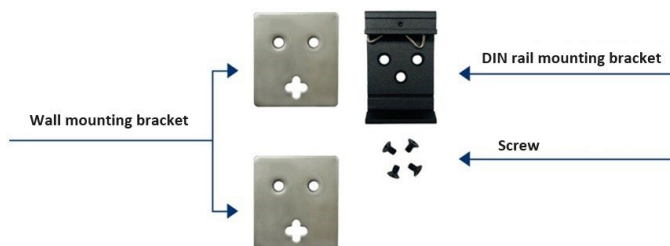
Please pay attention to the following points when using the device.

- Do not stack the main unit on top of each other.
- Do not disassemble the main unit.
- Do not disassemble the main body of the equipment.
- Excessive dust may cause equipment failure.

Check Packaged Items

The product package contains:

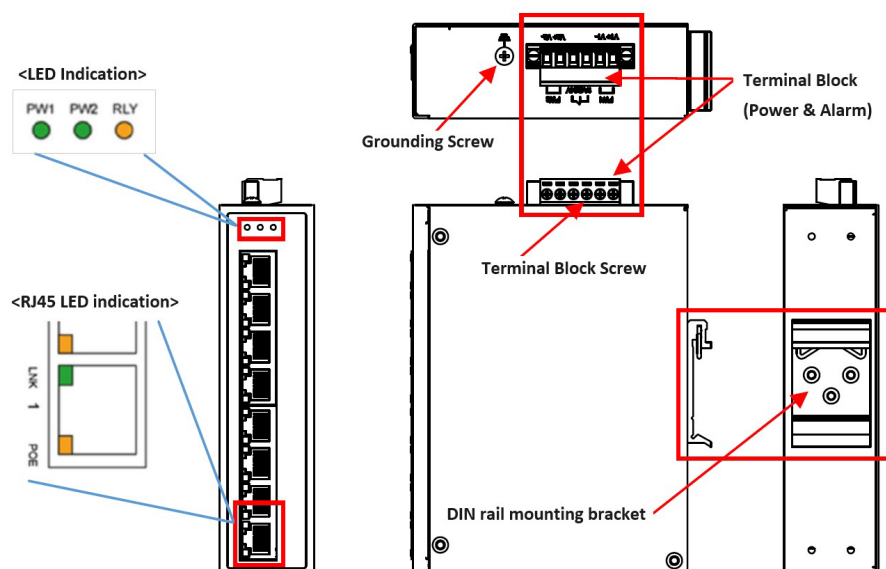
- Device
- DIN rail mounting bracket
- Wall mounting bracket (2pcs)
- Screw (4pcs)



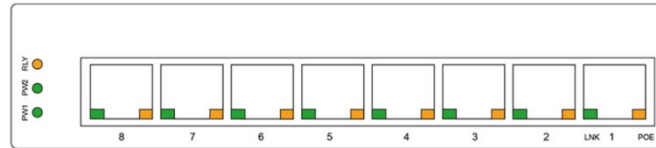
Model Definitions

Product Number	TP port	PoE/PSE port	Transmission rate	PoE power supply
MGS-0800-TBB0	8	#1~#8	10/100/1000Mbps	80W@DC+24V

Product Panels



LED Indication

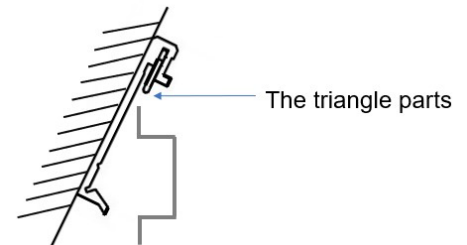


LED	State	color	Description
PW1	ON	Green	The power is supplied to the switch
	OFF	-	The power is not supplied to the switch
PW2	ON	Green	The power is supplied to the switch
	OFF	-	The power is not supplied to the switch
RJ45 左	ON	Green	TP port link up
	BLINK	Green	TP port link is up and there is traffic
	OFF	-	TP port link is down
RJ45 右	ON	Orange	PoE power is on
	OFF	-	PoE power is off
RLY	ON	Orange	Only one of PW1 or PW2 is powered
	OFF	-	Both of PW1 and PW2 are powered

Mounting for DIN rail

The product can be fixed to the DIN rail using the DIN rail mounting bracket attached to the main unit.

- The triangle parts of the DIN rail mounting bracket are used to hold the DIN rail in place.
- Hook the lower side of the DIN rail onto the lower side of the metal fitting.
- Make sure that the mounting bracket is secured to the DIN rail.

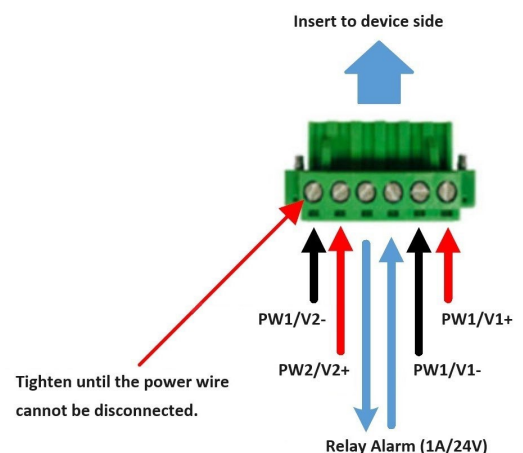


DC power connector Terminal Block

The unit comes with a 6-pin terminal block and operates from +18 to +56 VDC; the DC power input terminals are in a redundant configuration. Please work with the following precautions when connecting the power supply.

<Precautions>

- Make sure that the input voltage is within the range of the corresponding voltage.
- If the input voltage exceeds this range, the device will not function and may be damaged.
- Be careful not to mistake the polarity of the DC power supply.
- Be sure to use a harness within the specification range.
- Tighten the screws until the power wires cannot be disconnected.
- Be sure to turn off the power supply when connecting the power wires.
- Be sure to ground the power supply to maintain normal power input. Inexpensive power supplies contain a lot of noise, which may cause fluctuations in the power input when connected to this unit.



<Installation work>

1. Remove the terminal block from the device.
2. Insert the harness into PW1 and PW2 (and the alarm output section if necessary).
3. Attach the terminal block to the device.
4. Ground the device using the ground connection screw.
5. After turning on the DC power, check the indicator LED on the main unit.

<Terminal block specification>

Power (PW1 / PW2)	
Input voltage	DC 18V - 56V
DC input power port	2 ports (Redundant)
Cable core	4 cores
Compliant cable wire	AWG 12~24 (solid) /14~22 (stranded)
Relay Alarm (2-pin)	
Input power range	DC+24V / 1A max.
Relay	Both of PW1 and PW2 are powered : Open Only one of PW1 or PW2 is powered : Short
Port number	1
Cable core	2 cores
Compliant cable wire	AWG 12~24 (solid) /14~22 (stranded)

PoE/PSE Function

Standard	IEEE 802.3af, IEEE 802.3at
PoE port	8 ports (all port)
Output voltage	DC+52V
Power delivery (port)	30W max./port
Power delivery (device)	80W@24VDC, 60W@18VDC
PoE reset voltage	DC18V
Protection	Over current detection, Over Voltage detection, Abnormal temperature rise

基本仕様

The product is an industrial Gigabit Ethernet device which is featured with the following specifications:

Dimension (base)	142(H) × 36.2(W) × 105(D)mm
Weight	560 g
Mounting support	Wall, DIN-rail
DC power supply	Terminal block (redundant)
Operating voltage range	DC+18V ~ +56V
Power delivery (device)	80W@DC+24V 60W@DC+18V
Power consumption	5.76W @DC18V/DC24V/DC48V (without PoE) 90W max.@DC24V (with PoE) 70W max.@DC18V (with PoE)
Protection	Voltage polarity reversal protection (automatic correction)
Operating temperature	0 ~ +60°C
Switching technology	Store and forward
MAC Addresses Table	4K entry
Packet memory buffer size	1M Byte
Maximum packet length	9K Byte
Flow control	IEEE 802.3x pause frame base for full duplex operation Back pressure for half duplex operation
Configuration	TP port 1000Mbps Link: port 1,488,090 frame/s TP port 100Mbps Link: port 148,810frame/s
TP/LAN port	10/100/1000BASE-T x 8 port (IEEE 802.3at/af, PoE+ PSE)
TP/LAN port interface	RJ-45 jack
Compliance	IEEE802.3u, IEEE802.3ab auto-negotiation 1000Mbps duplex, 100Mbps duplex
Pin assignments	Auto MDI/MDI-X detection
Network cable	Cat.5e or up, STP/UTP cable

Distance	Max. 100m
Grand	1 port
Cable core	1 core

Warranty

【Warranty period】 6 years (For products shipped until the end of October 2025, the warranty period is 5 years.)

【Warranty process】 Send back ※Only for Japan. Please contact us for overseas transportation.

The following cases will be handled for a fee. In addition, you will be charged for the cost of shipping the product back and forth.

- Warranty period has expired.
- Malfunctions or damages caused by handling contrary to the instructions and precautions described in the product manual.
- Malfunctions or damages caused by improper handling such as transportation, vibration, drop, shock, etc. after purchase.
- Malfunctions or damages caused by fire, earthquake, flood, lightning, other natural disaster, pollution, abnormal voltage, etc.
- Malfunctions or damages caused by other connected devices or other external factors.
- Malfunctions or damages caused by modification, adjustment, parts replacement, etc. by other than our company.

The warranty period can be checked by our company, so please contact us after confirming the model's name and serial number.

Please note that we are not responsible for any malfunction or damage of this product, or any direct or indirect damage caused during its use.

Company Information

Japan Telegaertner Ltd.

Address: N-7F, N.E.S Bldg., 22-14, Sakuragaoka-cho, Shibuya-ku, Tokyo 150-0031 Japan

E-Mail: sales@telegaertner.co.jp

Web: <https://telegaertner.co.jp/>