

IESH-MB205G-R

Industrial Unmanaged Gigabit Ethernet Switch

Overview

The IESH-MB205G-R comes equipped with all the standard features. Furthermore, it offers a +12~48 VDC redundant power input design, and is secured with a double protection mechanism; Power polarity Reverse Protect and an Overload Current Reset-able Fuse. The former tolerates reverse power wiring (devices will not be damaged if the plus and minus power cables are mixed, even continuing to operate normally. The latter secures the system from overload currents; when the power supply turns normal, IESH-MB205G-R will automatically get back to work. Each port of IESH-MB205G-R has 2 LED's to show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, and have troubleshooting easy and quick. IESH-MB205G-R comes with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

General

- **Compatibility:** IEEE 802.3, 802.3u, 802.3x, 802.3ab
- **LAN:** LAN: 10/100/1000Base-T(X)
- **Ethernet RJ-45:** Up to 100 m
- **Connectors:** 5 x 10/100/1000Base-T/TX RJ-45 ports
- **Switch Architecture:** Store and Forward
- **Power Requirement:** 12~48V_{DC}, redundant Power Input with reverse polarity protection.
- **Power Consumption:** 2.5W
- **Dimensions (W x H x D):** 30 x 140 x 95 mm
- **Enclosure:** IP30
- **Operating Temperature:** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature:** -40 ~ 85°C (-40°F ~ 185°F)
- **Operating Humidity:** 10 ~ 95% (non-condensing)
- **Storage Humidity:** 10 ~ 95% (non-condensing)
- **Safety:** UL 61010
- **EMC:** FCC Class A, CE

Packing List

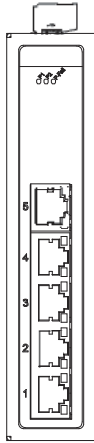
Before installation, please make sure that you have received the following:

- 1 x IESH-MB205G-R Ethernet Switch
- 2 x Wall mounting brackets with screws
- 1 x DIN-rail Mounting Bracket and Screws
- 2 x IESH-MB205G-R Startup Manual

LED definition

LED	Color	Description
P1	Green	On Power input 1 is active
		Off Power input 1 is inactive
P2	Green	On Power input 2 is active
		Off Power input 2 is inactive
P-Fail	Red	On Power input 1 or 2 is inactive
		Off Power input 1 and 2 are both active, or no power input
1-5 (Upper LED)	Green	On Connected to network
		Flashing Networking is active at speed of 100Mbps
1-5 (Lower LED)	Green	Off Not connected to network
		On Connected to network at speed of 1000Mbps
		Off Not connected to network

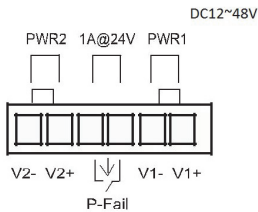
Overview



Power Connection

The IESH-MB205G-R switch supports dual +12~48V_{DC} power inputs and changes relay status when power failure occurs.

1. Insert the positive and negative wires into the V+ and V- contacts on the terminal block connector.
2. Tighten the wire-clamps screws to prevent the DC wires coming loose.



Warning: This is a Class A product. In domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warning: This product is intended to be supplied by a Listed Power Adapter or DC power source, rate 12 ~ 48 VDC, 1.5A; Tma 60 degree C, if need further assistance, please contact Advantech for further information.

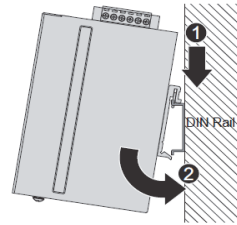
Wire Range

Current rating : 16Amp AC300V
Insulation withstands volt : AC2000V min
Insulation resistance : >2000MΩ DC500V
Operation temperature : -40°C to +105°C
Wire strip length : 4mm~5mm
Wire range : 12~24 AWG
Screw torque : 7.0 lb-inch

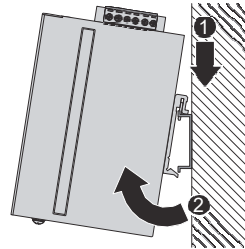
Mounting

DIN-rail Mounting

1. Installing the DIN-Rail Mounting Kit.

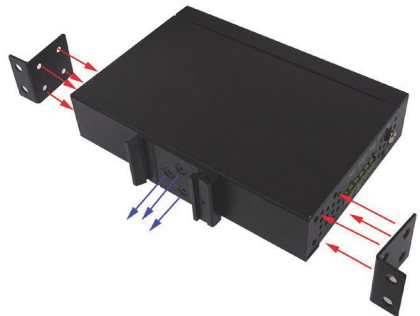


2. Removing the DIN-Rail.



Wall Mounting

1. Attach the brackets included to the switch with screws.



2. With the brackets attached, hang the switch to nails on the wall.