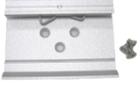


## 1. Package Contents

Thank you for purchasing PLANET Industrial IP67-rated 8-Port 10/100Mbps M12 Ethernet Switch, ISW-800T-M12. In the following sections, the term "Industrial M12 Ethernet Switch" means the ISW-800T-M12.

Open the box of the Industrial M12 Ethernet Switch and carefully unpack it. The box should contain the following items:

Industrial M12 Ethernet Switch x 1	User's Manual x 1	1.2m M12-to-RJ45 UTP Cable x 1
		
1.2m M12 Power Cable x 1	DIN-rail Kit x 1	Wall Mount Kit x 1
		

- 1 -

If any of these pieces are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

## 2. Product Specifications

Model	ISW-800T-M12
Hardware Specifications	
10/100BASE-TX Ports	8 x M12, 4-Pin D-coded female connector
Power Connector	1 x M12, 5-Pin A-coded male connector
Enclosure	IP67 aluminum
Dimensions (W x D x H)	103 x 53 x 163mm
Weight	976g
Power Requirements	9~48V DC, redundant power with reverse polarity protection
Power Consumption/Dissipation	4watts/13BTU
Installation	DIN-rail kit and wall mount ear
ESD Protection	6KV DC

- 2 -

LED Indicators	Power LED: Power 1/Power 2 (Green), FAULT (Green) 10/100BASE-TX Port (Port-1 to Port-8): LNK/ACT (Green)
Network Cables	10BASE-T: 2-pair UTP Cat.3,4,5 up to 100m (328ft) 100BASE-TX: 2-pair UTP Cat.5, 5e, 6 up to 100m (328ft) EIA/TIA-568 100-ohm STP (100m, max.)
Switch Specifications	
Switch Processing Scheme	Store-and-Forward
Address Table	2K entries
Flow Control	Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex
Switch Fabric	1.6Gbps
Throughput (packet per second)	1.19Mpps@64Bytes
Maximum Transmit Unit	1536 bytes

- 3 -

Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control and Back Pressure
Regulatory Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
Environment	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~95% (non-condensing) Storage: 5~95% (non-condensing)

- 4 -

## 3. Hardware Introduction

### 3.1 Front Panel

The front panel of the Industrial M12 Ethernet Switch consists of Ethernet interfaces and LED indicators.

#### ■ Front View

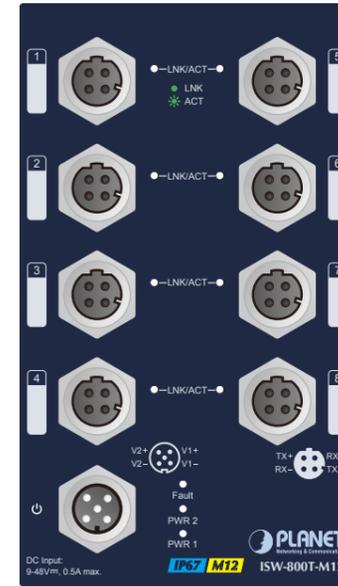


Figure 3-1: ISW-800T-M12 Front View

- 5 -

#### ■ System LEDs

LED	Color	Function
PWR 1	Green	Lit: To indicate power 1 has power.
PWR 2	Green	Lit: To indicate power 2 has power.
Fault	Green	Lit: To indicate either power 1 or power 2 has no power.

#### ■ 10/100BASE-TX M12 Interface LEDs

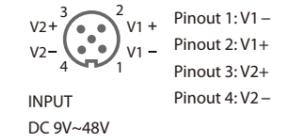
LED	Color	Function
LNK/ACT	Green	Lit: To indicate the Switch is successfully connecting to the network at 10/100Mbps. Blink: To indicate that the Switch is actively sending or receiving data over that port. Off: To indicate the Switch is not connecting to the network at 10/100Mbps.

- 6 -

### 3.2 M12 DC Power Cable Pinout

The Industrial M12 Ethernet Switch front panel provides one M12 A-coded 5-pin male connector for DC power input; please use the power cable with M12 A-coded 5-pin female connector from Industrial M12 Ethernet Switch package for DC power input. The Industrial M12 Ethernet Switch power input port pinout is shown below:

#### ISW-800T-M12



Please follow the steps below for DC power cable installation on Industrial M12 Ethernet Switch.

1. Plug the DC power cord connector to the power input port of the Industrial M12 Ethernet Switch.
2. Screw the nut on DC power cord female connector to the DC power input male connector of Industrial M12 Ethernet Switch and make sure the connection is tight.



Note

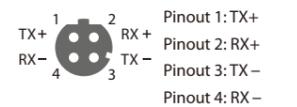
Before DC power cord connection, please check and assure your local DC power source is stable.

- 7 -

### 3.3 10/100BASE-TX Ports with M12 Interface Cable Pinout

The Industrial M12 Ethernet Switch front panel provides eight RJ45 10/100BASE-TX ports and M12 interfaces. These ports are designed for Ethernet equipment connection. The Industrial M12 Ethernet Switch 10/100Mbps M12 input interface pinout is shown below:

#### ISW-800T-M12



#### Pinouts for the RJ45 (8-Pin) Port

RJ45 (8-Pin)	Signal	
	MDI	MDI-X
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-

Please follow the steps below for the 10/100Mbps M12 cable installation of Industrial M12 Ethernet Switch.

1. Plug the 10/100Mbps M12 cable male connector to the Ethernet female connector input port of the Industrial M12 Ethernet Switch.
2. Screw the nut on 10/100Mbps M12 cable male connector to the Ethernet input female connector of Industrial M12 Ethernet Switch and make sure the connection is tight.

- 8 -



As each Ethernet port of Industrial M12 Ethernet Switch is running in auto negotiation mode, make sure the opposite Ethernet devices Ethernet ports are also running in auto negotiation mode, otherwise, the Ethernet performance will be poor.

## 4. Installation

This section guides you to installing the Industrial M12 Ethernet Switch on the DIN rail and wall. Please read this chapter completely before continuing.



In the installation steps below, this manual uses PLANET IGS-801 8-port Industrial Gigabit Switch as an example. The steps for PLANET Industrial M12 Ethernet Switch are similar.

- 9 -

### 4.1 DIN-rail Mounting Installation



### 4.2 Wall-mount Plate Mounting



You must use the screws supplied with the wall-mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

- 10 -

## 5. Three-View Diagram

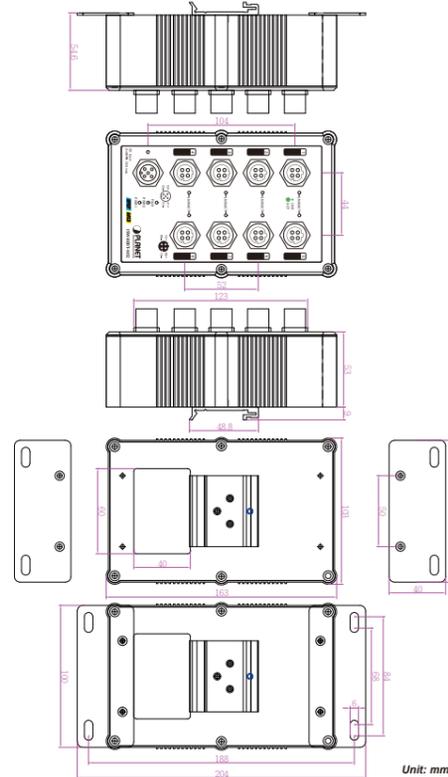


Figure 5-1: ISW-800TM12 Three-View Diagram

- 11 -

## 6. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

PLANET online FAQs:  
<http://www.planet.com.tw/en/support/faq>

Support team mail address:  
[support@planet.com.tw](mailto:support@planet.com.tw)

Copyright © PLANET Technology Corp. 2020.  
Contents are subject to revision without prior notice.  
PLANET is a registered trademark of PLANET Technology Corp.  
All other trademarks belong to their respective owners.

- 12 -



User's Manual

[www.PLANET.com.tw](http://www.PLANET.com.tw)

IP67-rated 8-Port M12 Fast Ethernet Switch

ISW-800T-M12



PLANET Technology Corp.  
10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

Warning:  
This device is compliant with Class A of CISPR 32.  
In a residential environment this device may cause radio interference.  
2350-AH0450-001



### FCC Warning

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the Instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.



### EC Declaration of Conformity

I hereby confirm that the following equipment complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive on (2014/30/EU).

Type of Product:  
Industrial IP67 Rated 8-Port 10/100Mbps M12 Ethernet Switch

Models:  
ISW-800T-M12

Produced by:  
Manufacturer's Name: **Planet Technology Corporation**  
Manufacturer's Address: 10F., No.96, Minquan Rd., Xindian Dist.,  
New Taipei City 231, Taiwan, R.O.C.

For the evaluation regarding the EMC, the following standards were applied:

EN 55032	(2015 + AC:2016)
EN 55024	(2010 + A1:2015)
EN 55035	(2017)

Person responsible for making this declaration  
Name: Kent Kang  
Title: Director

Taiwan  
Country

July 22, 2020  
Date

*Kent Kang*  
Legal Signature

PLANET TECHNOLOGY CORPORATION

e-mail: [sales@planet.com.tw](mailto:sales@planet.com.tw) <http://www.planet.com.tw>  
10F., No.96, Minquan Rd., Xindian Dist., New Taipei City, Taiwan, R.O.C. Tel:886-2-2219-9518 Fax:886-2-2219-9528

- 13 -