

## **IMP-C1000-SFP Series**

10/100/1000TX to 100/1000FX Compact Industrial Gigabit Media Converter with SFP Slot and PoE Injector



Version 1.2



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#### **FCC Notice**

This equipment 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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. It may cause harmful interference to radio communications if the equipment is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution**: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

#### **CE Mark Warning**

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

#### **Industrial Ethernet Media Converters**

User Manual (Feb 2020)

This manual supports the following models:

- IMP-C1000-SFP
- IMP-C1000-SFP-T

Please check our website (<u>www.antaira.com</u>) for any updated manual or contact us by e-mail (<u>support@antaira.com</u>).

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## 1. Overview

Antaira Technologies' **IMP-C1000-SFP** series is a compact IP-30 rated gigabit Ethernet-to-fiber media converter featuring a 10/100/1000TX Ethernet port that supports IEEE 802.3at high power PoE that can supply up to 30 watts, and a dual rate 100/1000 SFP slot. It is perfectly designed to fulfill industrial applications that require distance extension and high bandwidth capabilities. This small form factor is ideal for saving space in outdoor applications such as factory automation, security, ITS transportation, power/utility, water wastewater treatment plants, and any other extreme ambient weather environments.

The IMP-C1000-SFP series has a built-in "Link Fault Pass Through" (LFP) and "Far End Fault" (FEF) function with 48~55VDC redundant power inputs with reverse polarity and overload current protection. This product series supports DIN-rail as well as wall mountable orientations. There are two operating temperature range models in STD: -10°C to 70°C and EOT: -40°C to 80°C.

#### 1.1 Key Features

- System Interface/Performance
  - RJ-45 ports support the auto MDI function
  - Embedded 1-port PoE injection
  - Embedded 1\*10/100/1000Tx (PSE 30W) and 1\*100/1000Fx
  - Store-and-forward switching architecture
- Power Input
  - DC 48~55V redundant power with a 4-pin removal terminal block
- Operating Temperature
  - Standard operating temperature model: -10°C ~ 70°C
  - Extended operating temperature model (-T): -40°C ~ 80°C
- Case/Installation
  - IP-30 protection
  - DIN-Rail and wall mount design

#### **1.2 Package Contents**

- 1 Quick Installation Guide
- 1 IMP-C1000-SFP Industrial Gigabit Media Converter
- 1 Wall mounting bracket set with screws
- 1 DC cable 18 AWG & DC jack 5.5x2.1mm

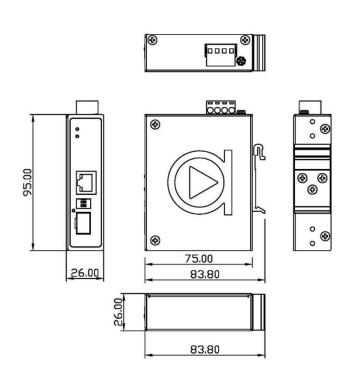
### **1.3 Safety Precaution**

Attention: If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input. The industrial Ethernet media converter's hardware specs, ports, cabling information, and wiring installation will be described within this user manual.

# 2. Hardware Description

### **2.1 Physical Dimensions**

*Figure 2.1*, below, shows the physical dimensions of Antaira Technologies' IMP-C1000-SFP series: 10/100/1000Tx to 100/1000Fx compact industrial gigabit Ethernet media converter.



#### (W x D x H) is 26mm x 95mm x 75mm

Figure 2.1 Physical Dimensions

### 2.2 Front Panel

The front panel of the IMP-C1000-SFP series: 10/100/1000Tx to 100/1000Fx industrial compact gigabit Ethernet media converter can be seen below (*Figure 2.2*).

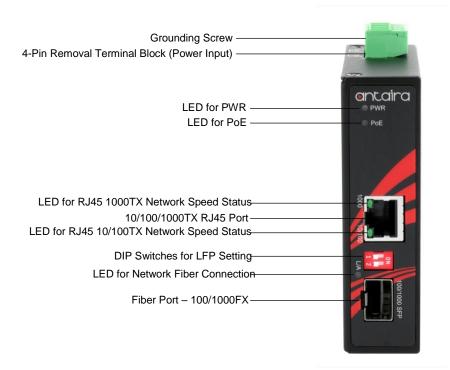


Figure 2.2 Front Panel

### 2.3 Top View

*Figure 2.3*, below, shows the top panel of the IMP-C1000-SFP series media converter that is equipped with one 4-pin removal terminal block connector for dual DC power inputs (48~55VDC).

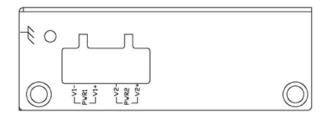


Figure 2.3 Top Panel View

### 2.4 LED Indicators

There are LED light indicators located on the front panel of the industrial Ethernet media converter that displays the power and network status. Each LED indicator has a different color and has its own specific meaning, see below in *Table 2.1*.

LED	Color	Description	
Power	Green	On	Power input 1 or 2 is active
1 Ower		Off	Power input 1 and 2 are inactive
	Green	On	Connected to network at 100/1000Mbps
LINK/ACT		Flashing	Networking is active
(SFP Slot)		Off	Not connected to network
	Green	On	Linked to network at 1000Mbps
RJ45 Port (Upper LED)		Flashing	Networking is active
		Off	Not connected to network
	Green	On	Linked to network at 10/100Mbps
RJ45 Port		Flashing	Networking is active
(Lower LED)		Off	Not connected to network
PoE	Green	On	The port is supplying power to the powered-device
		Off	No powered-device attached or power supplying fails

Table 2.1

LED Indicators

### 2.5 DIP-Switch Setting

There are 2-sets of DIP-switches on the front panel that can be utilized as an SFP (link fault pass) function and as an SFP transmission rate (see below in Table 2.2).

DIP 1	DIP 2	Description	
ON	ON	LFP Enable and Set SFP to 100Mbps	
ON	OFF	LFP Enable and Set SFP to 1000Mbps	
OFF	ON	LFP Disable and Set SFP to 100Mbps	
OFF	OFF	LFP Disable and Set SFP to 1000Mbps (Default)	

Table 2.2

Note: After any DIP switch changes have been made, it is required to power cycle the unit for the changes to take effect.

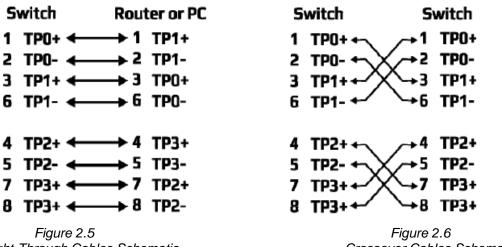
#### **2.6 Ethernet Ports**

#### **RJ-45 Ports**

RJ-45 Ports (Auto MDI/MDIX): The RJ-45 port is auto-sensing for 10/100Base-Tx or 1000Base-Tx device connections. Auto MDI/MDIX means that the media converter can connect to another switch or workstation without changing the straight-through or crossover cabling. See the figures shown below for the straight-through and crossover cabling schematics.

Pin	Label	
1	TP0+	12345678
2	TPO-	
3	TP1+	
4	TP2+	
5	TP2-	
6	TP1-	
7	TP3+	
8	TP3-	

Figure 2.4: RJ-45 Ethernet Port Pin



Straight-Through Cables Schematic

Crossover Cables Schematic

### 2.7 Cabling

- Twisted-pair segments can be connected with an Unshielded Twisted Pair (UTP) or Shielded Twisted Pair (STP) cable. The cable between the equipment and the link partner (media converter, switch, hub, workstation, etc.) must be less than 100 meters (328 ft.) long.
- The Small Form Factor pluggable (SFP) is a compact optical transceiver used in optical communications for both telecommunication and data communication applications.

- To connect the transceiver and LC cable, please follow the steps below:
  - Step 1 Insert the SFP transceiver module into the SFP slot as shown below in *Figure 2.7.* Notice that the triangle mark is at the bottom of the SFP slot.
    *Figure2.8* shows the SFP transceiver module was inserted.



Figure 2.7 - Transceiver to the SFP Slot

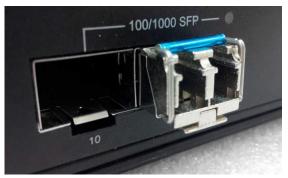


Figure 2.8 - Transceiver Inserted

• **Step 2 -** Insert the fiber cable of the LC connector into the transceiver as shown below in *Figure 2.9*.



Figure 2.9 - LC Connector to the Transceiver

- To remove the LC connector from the transceiver, please follow the steps shown below:
  - **Step 1 -** Press the upper side of the LC connector from the transceiver and pull it out to release as shown below in *Figure 2.10*.
  - **Step 2 -** Push down the metal clasp and pull the transceiver out by the plastic part as shown below in *Figure 2.11*.



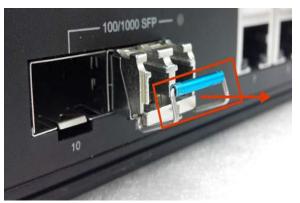


Figure 2.10 – Remove LC Connector

Figure 2.11 – Pull Out from SFP Slot

### 2.8 Wiring the Power Inputs

Please follow the steps below to insert the power wire.

1. Insert the positive and negative wires into the PWR1 (V1+, V1-) and PWR2 (V2+, V2-) contacts on the terminal block connector as shown below in *Figure 2.12*.

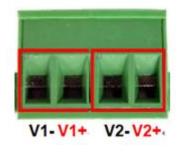


Figure 2.12 Power Terminal Block

2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 2.13*.



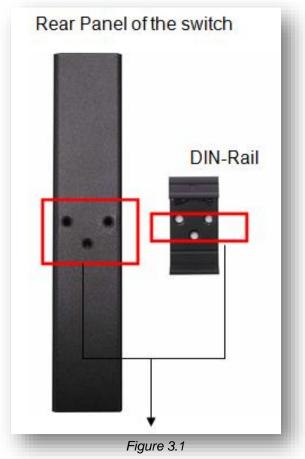
Figure 2.13 Power Terminal Block

**Note:	•	Only use copper conductors, 60/75°C, tighten to 5 lbs.
	•	The wire gauge for the terminal block should range between <b>18~20 AWG</b> .

# **3. Mounting Installation**

### 3.1 DIN-Rail Mounting

The DIN-Rail is pre-installed on the industrial Ethernet media converter from the factory. If the DIN-Rail is not on the industrial Ethernet media converter, please refer to *Figure 3.1* to learn how to install the DIN-Rail on the media converter.



The Rear Side of the Media Converter and DIN-Rail Bracket

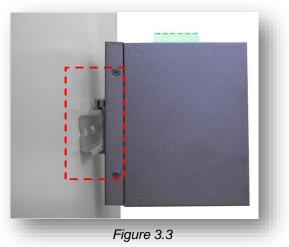
Follow the steps below to learn how to hang the industrial Ethernet media converter.

- 1. Use the screws to install the DIN-Rail bracket on the rear side of the industrial Ethernet media converter.
- 2. To remove the DIN-Rail bracket, do the opposite from step 1.
- 3. After the DIN-Rail bracket is installed on the rear side of the media converter, insert the top of the DIN-Rail onto the track as shown below in *Figure 3.2*.



Figure 3.2 Insert on the DIN-Rail

4. Lightly pull down the bracket onto the rail as shown below in *Figure 3.3*.



Secure on to the DIN-Rail

- 5. Check if the bracket is mounted tightly on the rail.
- 6. To remove the industrial Ethernet media converter from the rail, do the opposite from the above steps.

### 3.2 Wall Mounting

Follow the steps below to mount the industrial Ethernet media converter using the wall mounting bracket as shown below in *Figure 3.4*.

- 1. Remove the DIN-Rail bracket from the industrial media converter by loosening the screws.
- 2. Place the wall mounting brackets on the top and bottom of the industrial media converter.
- 3. Use the screws to screw the wall mounting bracket on the industrial media converter.
- 4. Use the hook holes at the corners of the wall mounting bracket to hang the industrial Ethernet media converter on the wall.
- 5. To remove the wall mount bracket, do the opposite from the steps above.

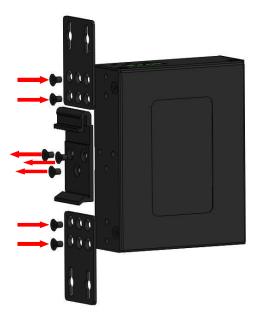
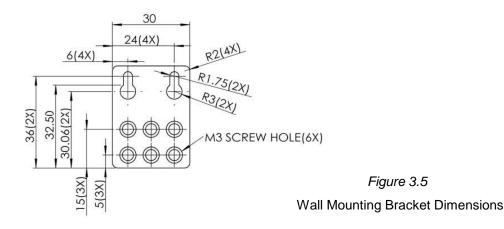


Figure 3.4 Remove DIN-Rail Bracket

Below, in Figure 3.5 are the dimensions of the wall mounting bracket.



## 4. Hardware Installation

### 4.1 Installation Steps

This section will explain how to install Antaira Technologies' IMP-C1000-SFP (-T) series: 10/100/1000Tx to 100/1000Fx industrial compact gigabit Ethernet media converter.

#### **Installation Steps**

- 1. Unpack the industrial media converter from the original packing box.
- 2. Check if the DIN-Rail bracket is screwed on the industrial media converter.
  - a. If the DIN-Rail is not screwed on the industrial media converter, please refer to the **DIN-Rail Mounting** section for DIN-Rail installation.
  - b. For wall mounting, please refer to the **Wall Mounting** section for wall mounting installation.
- 3. For DIN-Rail or wall mounting, please refer to the **Mounting Installation** section.
- 4. Power on the industrial media converter; the power LED light will turn on.
  - a. For wiring power, please refer to the Wiring the Power Inputs section.
  - b. Please refer to the LED Indicators section for LED light indication.
- 5. Prepare the twisted-pair, straight-through category 5 cable for Ethernet connection.
- Insert one side of the RJ-45 cable into the media converter's Ethernet port and on the other side into the networking device's Ethernet port, e.g. switch PC or server. The Ethernet port's (RJ-45) LED on the industrial media converter will turn on when the cable is connected to the networking device.
  - a. Please refer to the LED Indicators section for LED light indication information.
- 7. Insert one side of the SFP cable into the media converter's SFP port and on the other side into the networking device's SFP port, e.g. switch or server. The SFP port's LED on the industrial media converter will turn on when the cable is connected to the networking device.
  - a. Please refer to the LED Indicators section for LED light indication information.
- 8. When all connections are set and the LED lights all show normal, the installation process is complete.

## 5. Network Application This segment provides an example of an industrial Ethernet media converter application

This segment provides an example of an industrial Ethernet media converter application (*Figure 5.1*).

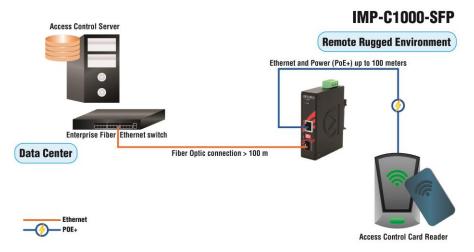


Figure 5.1 Industrial Gigabit Media Converter Application Example

## 6. Trouble Shooting

- Always verify the right power cord or adapter is being used. Never use a power supply or adapter with a non-compliant DC output voltage or it will burn the equipment.
- Select the proper UTP or STP cable in order to construct the network. Use an Unshielded Twisted-Pair (UTP) or Shield Twisted-Pair (STP) cable for RJ-45 connections: 100Ω Category 5e for 10/100/1000Mbps. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).
- **Diagnosing LED Indicators:** To assist in identifying problems, the media converter can be easily monitored with the LED indicators which help to identity if any problems exist.
  - Please refer to the LED Indicators section for LED light indication information.
- If the power indicator LED does not turn on when the power cord is plugged in, the user may have a problem with the power cord. Check for loose power connections, power losses or surges at the power outlet.
  - Please contact Antaira for technical support if the problem cannot be resolved.
- If the industrial media converter LED indicators are normal and the connected cables are correct but the packets still cannot transmit, please check the system's Ethernet devices' configuration or status.

## 7. Technical Specifications

*Table 7.1* has the technical specifications for Antaira Technologies' IMP-C1000-SFP series: 10/100/1000Tx to 100/1000Fx w/ 1 PoE injector industrial compact Gigabit Ethernet media converter.

IEEE 802.3u      100Base-TX, Fast Ethernet        IEEE 802.3ab      1000Base-TX (Igabit Ethernet)        IEEE 802.3at      Power-over-Ethernet Ithernet        IEEE 802.3at      Power-over-Ethernet Plus (Enhanced)        IEEE 802.3at      100Base-TX (Igabit Ethernet)        Data Process      Store and Forward        Transfer Rate      14,880 ops for 10Base-TX Fast Ethernet port        Transmission Distance      Up to 100m (Ethernet) : Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 100m(DY xuto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/TX suto negotiation speed, full/half duplex mode, and auto MDI connection        Port Interface      Ethernet (RJ45) Port      1*10/100/TX suto negotiation speed, full/half duplex mode, and auto MDI connection        Port Interface      LED Indicator      1*100/100CTX suto negotiation speed, full/half duplex mode, and auto MDI connection        Network Cable      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 1: CP(Link Fault Pass) Enable/Disable		IEEE 802.3	10Base-T 10Mbit/s Ethernet
Standards      IEEE 802.3af      Power-over-Ethernet        IEEE 802.3u      100Base-FX, Fast Fiber        IEEE 802.3u      100DBase-X Gigabit Fiber        IEEE 802.3z      100DBase-X Gigabit Fiber        IEEE 802.3u      100DBase-X Gigabit Fiber        Protocol      CSMA/CD        Data Process      Store and Forward        Transfer Rate      14,880 Ops for 10Base-TX Fast Ethernet port        Transmission Distance      Up to 1000 mps for Gigabit Ethernet port        Transmission Speed      Up to 1000Mps        Transmission Speed      Up to 1000Mps        Fiber Port      1*10/1000FX suto negotiation speed, full/half duplex mode, and auto        MDI connection      MDI connection        Fiber Port      1*10/1000FX SFP Slot        Fiber Port      1000: On (Ethernet 1000Mbps / 100Mbps        DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps (networking is active)        DIP Switch      1000: On (Ethernet 1000Mbps Link). Flashing (networking is active)        DIP Switch      1000BaseTX: 2-pair UTP/STP Cat.3,4.5 cable EIA/TIA-568 100-ohm (100m)        1000BaseTX: UTP/STP Cat.3,4.5 cable EIA/TIA-568 100-ohm (100m)      1000BaseTX: UTP/STP Cat.3,4.5 cable EIA/TIA-568 100-ohm (100m)        1000BaseTX: UTP/STP Cat.3,4.5 cab		IEEE 802.3u	100Base-TX, Fast Ethernet
IEEE 802.3at      Power-over-Ethernet Plus (Enhanced)        IEEE 802.3u      100Base-FX, Fast Fiber        IEEE 802.3z      100DBase-X Gigabit Fiber        Protocol      CSMA/CD        Data Process      Store and Forward        Transfer Rate      14,880 pps for 10Base-T Ethernet port        Transmission Distance      Up to 1000Mbps        Transmission Speed      Up to 1000Mbps        Fiber Port      1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*100/1000FX SFP Slot        Fiber Port      1*100/1000FX SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch        DIP Switch      DIB Switch 2: 1000Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      1008aseTX: 2:pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2:pair UTP/STP Cat.3,4,5 cab		IEEE 802.3ab	1000Base-TX Gigabit Ethernet
IEEE 802.3u      100Base-FX, Fast Fiber        IEEE 802.3z      1000Base-X Gigabit Fiber        Protocol      CSMA/CD        Data Process      Store and Forward        14,880 pps for 10Base-T Ethernet port      14,880 pps for 10Base-TX Fast Ethernet port        Transfer Rate      148,800 pps for Gigabit Ethernet port        Transmission Distance      Up to 1000Mpps        Transmission Speed      Up to 1000Mpps        Fiber Port      1*10/100/1000Tx auto negotilation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/00Tx SEP Slot        Fiber Port      1*100/1000Fx SEP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 1: UD00Mbps Link). Flashing (networking is active)        LA: SFP Link/active      1000: On (Ethernet 10/00Mbps Link). Flashing (networking is active)        VA: SFP Link/active      108aseT: 2-pair UTP/STP Cat.3.4,5 cable EIA/TIA-568 100-ohm (100m)        100BaseTX: 2-pair UTP/STP Cat.3.4,5 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.3.4,5 cable EIA/TIA-568 100-ohm (100m)        100BaseTX: 2-pair UTP/STP Cat.3.4,5 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.3.4,5 cable EIA/TIA-568 100-ohm	Standards	IEEE 802.3af	Power-over-Ethernet
IEEE 802.3z      1000Base-X Gigabit Fiber        Protocol      CSMA/CD        Data Process      Store and Forward        14,880 pps for 10Base-T Ethernet port      14,880 pps for 10Base-T X Fast Ethernet port        Transfer Rate      14,880,00p sfor 100Ease-TX Fast Ethernet port        1,488,000 pps for 00Ease-TX Fast Ethernet port      1,488,000 pps for 100Ease-TX Fast Ethernet port        Transmission Distance      Up to 1000Mbps        Transmission Speed      Up to 1000Mbps        Ethernet (R,J45) Port      1*10/100/1000TX auto negotiation speed, full/half duplex mode, and auto        MDI connection      MDI connection        Fiber Port      1*100/1000FX SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps        Verwork Cable      1008:or C: Leiternet 10/100Mbps Link). Flashing (networking is active)        UA: SFP Link/Active      UA: SFP Link/Active        Verwork Cable      100BaseT: 2-pair UTP/STP Cat.3,45 cable EIA/TIA-568 100-ohm (100m)        100BaseT: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)      100BaseT: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)        100EaseT      100BaseT: 2-pair		IEEE 802.3at	Power-over-Ethernet Plus (Enhanced)
Protocol      CSMA/CD        Data Process      Store and Forward        Tachnology      Transfer Rate      14,880 pps for 10Base-T Ethernet port        14,880 pps for 100Base-TX Fast Ethernet port      1,4888,000 pps for Gigabit Ethernet port        Transmission Distance      Up to 1000 (Ethernet): Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 1000Mbps        Transmission Speed      Up to 1000Mbps        Fiber Port      1*10/100/TX auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/TX auto negotiation speed, full/half duplex mode, and auto MDI connection        Port Interface      DIP Switch      Refer to SFP Module        IDIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps        Network Cable      1008aseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        NousaerX: UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      I008aseTX: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        Nousaget M		IEEE 802.3u	100Base-FX, Fast Fiber
Data Process      Store and Forward        Technology      Inaster Rate      14,800 pps for 10Base-T Ethernet port        Transfer Rate      14,800 pps for 00Base-TX Fast Ethernet port        Transmission Distance      Up to 100m (Ethernet) ; Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 100m(Ethernet) ; Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 100m(Ethernet) ; Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 1000Mbps        Ethernet (RJ45) Port      1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        Network Cable      1000: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        L/A: SFP Link/Active      1008 aser T: 2-pair UTP/STP Cat.3, cable EIA/TIA-568 100-ohm (100m)        Network Cable      100Baser T: 2-pair UTP/STP Cat.3, cable EIA/TIA-568 100-ohm (100m)        100Baser T: 2-pair UTP/STP Cat.3, cable EIA/TIA-568 100-ohm (100m)      100Baser T: 2-pair UTP/STP Cat.3, cable EIA/TIA-568 100-ohm (100m)  <		IEEE 802.3z	1000Base-X Gigabit Fiber
Technology      Transfer Rate      14,880 pps for 10Base-T Ethernet port        Transmission Distance      Up to 100m (Ethernet): Up to 120Km for fiber dependent on SFP        Transmission Distance      Up to 100m (Ethernet): Up to 120Km for fiber dependent on SFP        Transmission Distance      Up to 1000Mbps        Ethernet (RJ45) Port      1*10/100/1X auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Port Interface      DIP Switch      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        DIP Switch      DIP Switch 2: 1000Mbps IniN. Flashing (networking is active)        1/00: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      1/00: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        Network Cable      1008aseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseT: UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        100BaseT:      10/45 port #1-4 4 support IEEE 802.3af End-point, Alternative A mode.        PoE Pin Assignment      Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Datat (1.2,3,6) <th></th> <th>Protocol</th> <th>CSMA/CD</th>		Protocol	CSMA/CD
Technology      Transfer Rate      148,800 pps for 100Base-TX Fast Ethernet port        Transmission Distance      Up to 100m (Ethernet) ; Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 1000Mbps        Ethernet (RJ45) Port      1*10/100/TX auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/TX auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*100/1000FX SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        LED Indicator      1000: On (Ethernet 10/100Mbps Link), Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link), Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link), Flashing (networking is active) 10/100: Dn (Ethernet 10/100Mbps Link), Flashing (networking is active) 10/2000FR        Network Cable      1008aseTX: 2-pair UTP/STP Cat. 3,4,5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat. 5,45 port 1,4:Eft point 3, 6. Data (1,2,3,6)        Metal IP30 protection      Notation 26 x 95 x 75 m		Data Process	Store and Forward
Image: Provide the state of the st			14,880 pps for 10Base-T Ethernet port
Transmission Distance      Up to 100m (Ethernet) ; Up to 120Km for fiber dependent on SFP        Transmission Speed      Up to 1000Mbps        Transmission Speed      Up to 1000Mbps        Ethernet (RJ45) Port      1*10/1000Tx auto negotilation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/0/1000Fx SFP Slot        Fiber Port      1*100/1000Fx SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps        DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps Link). Flashing (networking is active)        10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      1/4/3 SFP Link/Active        Network Cable      100BaseT: 2-pair UTP/STP Cat. 5/4,5 cable EIA/TIA-568 100-ohm (100m)        100BaseTX: 2-pair UTP/STP Cat. 5/45 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat. 5/45 cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseTX: 2-pair UTP/STP Cat. 5/45 cable EIA/TIA-568 100-ohm (100m)        1000BaseTX: UTP/STP Cat. 5/45 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat. 5/3c cable EIA/TIA-568 100-ohm (100m)        Network Cable      Notage      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode.        Poe Pin Assignment      Din-said Mounting, vali-mounting (optional)      Moun	Technology	Transfer Rate	148,800 pps for 100Base-TX Fast Ethernet port
Transmission Speed      Up to 1000Mbps        Ethernet (RJ45) Port      1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*10/100/1000Fx SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        Port Interface      LED Indicator        Network Cable      1000: On (Ethernet 1000Mbps Link). Flashing (networking is active) 10/100: On (Ethernet 10100Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      100BaseTX: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m) 100BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1.2.3.6)        Mechanical      Dimension      26 x 95 x 75 mm        Metal IP30 protection      Metal IP30 protection        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power      Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power Consumption      3 Watts      Standard: -10°C to 70°C (14°F to 158°F)        Power Consumption <th></th> <td></td> <td>1,4888,000 pps for Gigabit Ethernet port</td>			1,4888,000 pps for Gigabit Ethernet port
Port Interface      Ethernet (R,J45) Port      1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto MDI connection        Fiber Port      1*100/1000Fx SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        LED Indicator      1000: On (Ethernet 10/100Mbps Link). Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m) 100BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)        Mechanical      Dimension      26 x 95 x 75 mm        Metal IP30 protection      Dimension      26 x 95 x 75 mm        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power Requirement      Input Voltage      48-55VDC Redundant Input        Power Consumption      3 Watts      Standard: -10°C to 70°C (14°F to 158°F)        Environmental Limits      Operating Temperature      Standard: -10°C to 80°C (-40°F to 176°F)		Transmission Distance	Up to 100m (Ethernet) ; Up to 120Km for fiber dependent on SFP
Port Interface      Ethernet (RJ45) Port      MDI connection        Fiber Port      1*100/1000Fx SFP Slot      Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable        LED Indicator      1000: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      L/A: SFP Link/Active        Network Cable      108aseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode.      Postive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)        Mechanical      Dimension      26 x 95 x 75 mm      Mounting        Power      Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Environmental      Operating Temperature      Standard: -10°C to 70°C (14°F to 158°F)        EOT:      -40°C to 80°C (-40°F to 176°F)      Operating Humidity		Transmission Speed	Up to 1000Mbps
MDI connection        Fiber Port      1*100/1000Fx SFP Slot        Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        Port Interface      Image: Dip Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps Link). Flashing (networking is active)        LED Indicator      10/0: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        LA: SFP Link/Active      108aseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseTX: 2-pair UTP/STP Cat.5/se cable EIA/TIA-568 100-ohm (100m)        100BaseTX: 2-pair UTP/STP Cat.5/se cable EIA/TIA-568 100-ohm (100m)      100BaseTX: 2-pair UTP/STP Cat.5/se cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseTX: UTP/STP Cat.5/se cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseTX: UTP/STP Cat.5/se cable EIA/TIA-568 100-ohm (100m)        Ruper Poe Pin Assignment      Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)        Mechanical      Dimension      26 × 95 × 75 mm        Characteristics      Meair IP30 protection        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power      Input Voltage      48-55VDC Redundant Input        Power Connection		Ethernet (R.145) Port	1*10/100/1000Tx auto negotiation speed, full/half duplex mode, and auto
Fiber Wavelength      Refer to SFP Module        DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        Port Interface      LED Indicator      100: On (Ethernet 1000Mbps Link). Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      10BaseTX: 2-pair UTP/STP Cat.5 /5e cable EIA/TIA-568 100-ohm (100m) 100BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode. PoE Pin Assignment        PoE Pin Assignment      Metal IP30 protection        Methal IP30 protection      Dimension        26 x 95 x 75 mm      Mounting        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Environmental      Operating Temperature        Operating Temperature      Standard: -10°C to 70°C (14°F to 176°F)        EOT:      -40°C to 80°C (-40°F to 176°F)			MDI connection
Port Interface      DIP Switch      DIP Switch 1: LFP(Link Fault Pass) Enable/Disable DIP Switch 2: 1000Mbps / 100Mbps        Port Interface      LED Indicator      1000: On (Ethernet 1000Mbps Link). Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      10BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)        Mechanical      Dimension      26 x 95 x 75 mm        Metal IP30 protection      Mounting        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power      Input Voltage      48-55VDC Redundant Input        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Environmental      Operating Temperature      Standard: -10°C to 70°C (14°F to 158°F)        EOT:      -40°C to 80°C (-40°F to 176°F)      EOT:		Fiber Port	1*100/1000Fx SFP Slot
DIP Switch      DIP Switch 2: 1000Mbps / 100Mbps        Port Interface      LED Indicator      1000: On (Ethernet 1000Mbps Link). Flashing (networking is active) 10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/Active        Network Cable      10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)        Network Cable      10BaseTX: 2-pair UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode. PoE Pin Assignment        PoE Pin Assignment      Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1.2,3,6)        Mechanical      Dimension      26 x 95 x 75 mm        Veight      Unit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Input Voltage      48-55VDC Redundant Input        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Environmental      Operating Temperature      Standard: -10'C to 70'C (14°F to 158°F)        EOT:      -40'C to 80'C (-40°F to 176°F)      EOT:		Fiber Wavelength	Refer to SFP Module
Port Interface      DIP Switch 2: 1000Mbps / 100Mbps        Hernic Interface      1000: On (Ethernet 1000Mbps Link). Flashing (networking is active)        10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        11/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        11/10: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        11/10: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)        11/10: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      11/14: SFP Link/Active        11/10: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      11/14: SFP Link/Active        11/10: On (Ethernet 10/100Mbps Link). Flashing (networking is active)      11/14: SFP Link/Active        11/11: Network Cable      100BaseTX: 2-pair UTP/STP Cat. 5,45 cable EIA/TIA-568 100-ohm (100m)        1000BaseTX: UTP/STP Cat. 5,45 cable EIA/TIA-568 100-ohm (100m)      1000BaseTX: 2-pair UTP/STP Cat. 5,45 cable EIA/TIA-568 100-ohm (100m)        Metal IP30 protection      RJ-45 port # 1-# 4 support IEEE 802.3af End-point, Alternative A mode.        Power      Dimension      26 x 95 x 75 mm			DIP Switch 1: LFP(Link Fault Pass) Enable/Disable
Fort interfaceLED Indicator10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/ActiveNetwork Cable10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)PoE Pin AssignmentRJ-45 port # 1~# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)Mechanical CharacteristicsHousingMetal IP30 protectionMechanical CharacteristicsDimension26 x 95 x 75 mmMechanical RequirementDIN-Rail Mounting, wall-mounting (optional)Power RequirementInput Voltage48-55VDC Redundant Input Power ConnectionPower Consumption3 WattsEnvironmental LimitsOperating Temperature Operating HumidityStandard: -10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)Operating Humidity5% to 95% (Non-Condensing)		DIF SWICH	DIP Switch 2: 1000Mbps / 100Mbps
LED Indicator10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active) L/A: SFP Link/ActiveNetwork Cable10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)Network CableRJ-45 port # 1 - # 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)Mechanical CharacteristicsHousingMetal IP30 protectionMechanical RequirementDimension26 x 95 x 75 mmPower RequirementInput Voltage48-55VDC Redundant InputPower RequirementOperating Temperature Operating TemperatureStandard: -10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)Environmental LimitsOperating Humidity5% to 95% (Non-Condensing)	Port Interface		1000: On (Ethernet 1000Mbps Link). Flashing (networking is active)
Network Cable      10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)        Network Cable      100BaseTX: UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5e cable EIA/TIA-568 100-ohm (100m)        PoE Pin Assignment      RJ-45 port # 1~# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)        Mechanical      Dimension      26 x 95 x 75 mm        Metal IP30 protection      Dimension      26 x 95 x 75 mm        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Nounting      DIN-Rail Mounting, wall-mounting (optional)        Power      Input Voltage      48-55VDC Redundant Input        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Environmental      Operating Temperature        Operating Temperature      Standard: -10°C to 70°C (14°F to 158°F)        EOT:      -40°C to 80°C (-40°F to 176°F)        EOT:      -40°C to 80°C (-40°F to 176°F)		LED Indicator	10/100: On (Ethernet 10/100Mbps Link). Flashing (networking is active)
Network Cable100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)Network CableNo0BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)PoE Pin AssignmentRJ-45 port # 1~# 4 support IEEE 802.3af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)Mechanical CharacteristicsHousingMetal IP30 protection 26 x 95 x 75 mmMeightUnit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs. MountingMountingDIN-Rail Mounting, wall-mounting (optional)Power Requirement1 nput VoltagePower Connection1 removable 4-contact terminal blockPower Consumption3 WattsEnvironmental LimitsOperating TemperatureStandard:-10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)Operating Humidity5% to 95% (Non-Condensing)			L/A: SFP Link/Active
Image: Point of the state of			10BaseT: 2-pair UTP/STP Cat.3,4,5 cable EIA/TIA-568 100-ohm (100m)
RJ-45 port # 1~# 4 support IEEE 802.3af End-point, Alternative A mode.      PoE Pin Assignment    Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)      Mechanical    Housing    Metal IP30 protection      Dimension    26 x 95 x 75 mm      Weight    Unit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.      Mounting    DIN-Rail Mounting, wall-mounting (optional)      Power    Input Voltage    48~55VDC Redundant Input      Power Connection    1 removable 4-contact terminal block      Power Consumption    3 Watts      Port Consumption    Standard: -10°C to 70°C (14°F to 158°F)      Environmental    Operating Temperature    EOT: -40°C to 80°C (-40°F to 176°F)      Operating Humidity    5% to 95% (Non-Condensing)		Network Cable	100BaseTX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)
PoE Pin AssignmentPositive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)Mechanical CharacteristicsHousingMetal IP30 protectionMechanical CharacteristicsDimension26 x 95 x 75 mmMountingDIN-Rail Mounting, wall-mounting (optional)Power RequirementInput Voltage48~55VDC Redundant InputPower Connection1 removable 4-contact terminal blockPower Consumption3 WattsEnvironmental LimitsOperating TemperatureStandard: -10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)Operating Humidity5% to 95% (Non-Condensing)			1000BaseTX: UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)
Mechanical CharacteristicsHousingMetal IP30 protectionDimension26 x 95 x 75 mmCharacteristicsWeightUnit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.MountingDIN-Rail Mounting, wall-mounting (optional)Power RequirementInput Voltage48~55VDC Redundant InputPower Connection1 removable 4-contact terminal blockPower Consumption3 WattsEnvironmental LimitsOperating TemperatureStandard: -10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)			
Mechanical CharacteristicsHousingMetal IP30 protectionCharacteristicsDimension26 x 95 x 75 mmCharacteristicsWeightUnit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.MountingDIN-Rail Mounting, wall-mounting (optional)Power RequirementInput Voltage48~55VDC Redundant InputPower Connection1 removable 4-contact terminal blockPower Consumption3 WattsEnvironmental LimitsOperating TemperatureStandard: -10°C to 70°C (14°F to 158°F) EOT: -40°C to 80°C (-40°F to 176°F)Operating Humidity5% to 95% (Non-Condensing)		PoE Pin Assignment	
Mechanical    Dimension    26 x 95 x 75 mm      Characteristics    Weight    Unit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.      Mounting    DIN-Rail Mounting, wall-mounting (optional)      Power    Input Voltage    48~55VDC Redundant Input      Power Connection    1 removable 4-contact terminal block      Power Consumption    3 Watts      Power Consumption    3 Watts      Operating Temperature    Standard: -10°C to 70°C (14°F to 158°F)      EOT:    -40°C to 80°C (-40°F to 176°F)      Umits    Operating Humidity    5% to 95% (Non-Condensing)			
Characteristics      Weight      Unit Weight: 0.55 lbs. Shipping Weight: 0.99 lbs.        Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power      Input Voltage      48~55VDC Redundant Input        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Power Consumption      3 Watts        Coperating Temperature      Standard: -10°C to 70°C (14°F to 158°F)        EOT:      -40°C to 80°C (-40°F to 176°F)        Operating Humidity      5% to 95% (Non-Condensing)		-	
Mounting      DIN-Rail Mounting, wall-mounting (optional)        Power Requirement      Input Voltage      48~55VDC Redundant Input        Power Connection      1 removable 4-contact terminal block        Power Consumption      3 Watts        Poperating Temperature      Standard: -10°C to 70°C (14°F to 158°F)        Environmental Limits      Operating Humidity      5% to 95% (Non-Condensing)			
Power Requirement  Input Voltage  48~55VDC Redundant Input    Power Connection  1 removable 4-contact terminal block    Power Consumption  3 Watts    Power Consumption  3 Watts    Operating Temperature  Standard: -10°C to 70°C (14°F to 158°F)    EOT:  -40°C to 80°C (-40°F to 176°F)    Operating Humidity  5% to 95% (Non-Condensing)	Characteristics		
Power Requirement    Power Connection    1 removable 4-contact terminal block      Power Consumption    3 Watts      Power Consumption    3 Watts      Operating Temperature    Standard: -10°C to 70°C (14°F to 158°F)      Environmental Limits    Operating Temperature      Operating Humidity    5% to 95% (Non-Condensing)		-	
Requirement    Power Consumption    3 Watts      Power Consumption    3 Watts      Standard:    -10°C to 70°C (14°F to 158°F)      Environmental    Operating Temperature      Doperating Humidity    5% to 95% (Non-Condensing)	Power	. •	·
Environmental  Operating Temperature  Standard:  -10°C to 70°C (14°F to 158°F)    Limits  Operating Humidity  EOT:  -40°C to 80°C (-40°F to 176°F)	Requirement		
Environmental Limits      Operating Temperature      EOT:      -40°C to 80°C (-40°F to 176°F)        Operating Humidity      5% to 95% (Non-Condensing)		Power Consumption	3 Watts
Environmental      EOT:      -40°C to 80°C (-40°F to 176°F)        Limits      Operating Humidity      5% to 95% (Non-Condensing)			Standard: -10°C to 70°C (14°F to 158°F)
Operating Humaity 5% to 95% (Non-Condensing)			EOT: -40°C to 80°C (-40°F to 176°F)
Storage Temperature -40°C to 85°C (-40°F ~ 185°F)	Limits	Operating Humidity	5% to 95% (Non-Condensing)
		Storage Temperature	-40°C to 85°C (-40°F ~ 185°F)

Regulatory Approvals	EMI / EMS	FCC Part 15 Subpart B Class A, CE EN 55022 Class A, CE EN 55022 Class A, IEC61000-4-2(ESD),IEC61000-4-3(RS), IEC61000-4-4(EFT),IEC61000-4-5(Surge), IEC61000-4-6(CS),IEC61000-4-8(Magnetic Field)
	Stability Testing	IEC60068-2-32(Free Fall), 27(Shock), 6(Vibration)
	Safety	CE, FCC, UL 61010-1, UL 61010-2-201

Table 7.1 Technical Specifications

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