User Manual for PT-PIS4PB1-AC Series

Overview

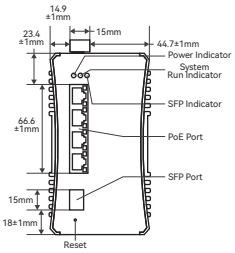
The PT-PIS4PB1-AC Series is an industrial-grade, DIN-rail mountable device with a built-in AC to DC power supply. It supports direct power input of 100-240VAC, delivering a total power of up to 200W. Alternatively, DC power input can be selected, providing up to 360W. However, simultaneous AC and DC power input is not recommended, as it may damage the device.

Equipped detecting chip inside will make the PoE identification handshake with IEEE802.3af/at/bt PDs.All PoE ports support data speeds of 10/100/1000Mbps. Each port delivers a maximum output power of 90W with 4KV surge protection, suitable for high-power PTZ cameras, outdoor wireless radios, and fixed detection cameras in both commercial and industrial environments. It operates reliably in temperatures ranging from -40℃ to 75℃, with full-load startup capability at -40℃. It meets the EN55032 3m EMC testing standard, ensuring excellent electromagnetic immunity. Users can choose P/N with fiber uplink or Ethernet uplink.

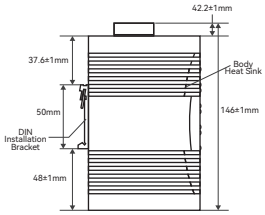
Models with an “M” in the P/N include Ethernet and PoE management functionalities. It can be accessed and managed via a web browser, supporting configurations such as IP settings, port settings, VLAN settings, PoE settings, and factory reset. Users can also view device information, including switch status, port status, and PoE status. Additionally, the PoE ports allow for scheduling timed power on/off operations.

Appearance

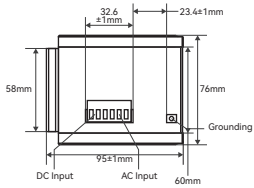
Front View



Side View



Top View



Specification

PT-PIS4PB1-AC Series	
Input 1	100-240Vac 2.0A(Max)
Output 1	55Vdc 1.64A(Max) per port, Total 200W
Input 2	48-55Vdc 7.5A(Max)
Output 2	48-55Vdc 1.64A(Max) per port, Total 360W
PoE Standard	IEEE802.3af/at/bt
PoE Power Pins	4,5(+)/7,8(-) 3,6(+)/1,2(-)
Operating Temp.	-40℃ to 75℃
Network Protocol	IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z
Data Rate	RJ45: 10/100/1000Mbps, SFP: 1000Mbps
Mounting	DIN Rail
PoE Surge Protection	Common mode: 4KV Differential mode: 1.5KV
Interface	PoE*4 SFP/LAN*1 AC/DC*1 Grounding*1
Dimensions & N.W	76mm X 95mm X 146mm 1230g

Cautions

1. Please read the instructions carefully and follow the standard operating procedures before using.

2. Connect the AC/DC power cable with positive and negative wires to the AC/DC terminal block of the unit.

3. For SFP slot, connect a fiber cable with SFP optical module at 1G from data source, such as a fiber switch into the unit's SFP slot for fiber data uplink.(The optical module is not included in the package). You can choose either single-mode or multi-mode SFP transceiver.

4. For LAN port, connect a CAT5e/6 cable from your Data source, such as a router/switch into the unit's LAN port, for Ethernet uplink.

5. Connect a CAT5e/6 cable with the RJ45 connector into the RJ45 socket labeled PoE. On the other end of the CAT5e/6 cable, connect to your PoE-powered Device (such as IP Camera, etc). The total Ethernet cable length can not exceed 100 meters.

6. This device must be grounded. If outdoor use is required, please use a waterproof enclosure.

Trouble Shooting

Failure Phenomena	Cause Analysis	Solutions
Power LED Light Off	Not plugged in / no power	Plug in the power cord
	Poor Power outlet Poor Power cord Power cable is not plugged in firmly	Check if the socket connection is loose, if the power cable is damaged, or if the power supply is abnormal
	Device issues	Device replacement
Load Indicator Light Off	Poor network cable contact or network cable failure	Re-plug the network cable or replace the network cable
	Non-PoE compliant PD or unsupported PD or mismatched PD	PD replacement
	PD Damaged	PD replacement
Data Transmission Abnormality	Check if the total length of the network connection cable exceeds 100 meters	Shorten the connection distance, or add an extender / repeater
	LAN port signal source malfunction	Check if the switch working properly
	Ethernet data transmission failure	Check if the cable comply with the EIA/TIA568B or 568A Change good network cable if the previous cable is poor

The Differences between AC Power Input Series Products

Model	PoE Standard	Input	Output	Power Pins	Managed	Port
PT-PIS4PB1S-AC	IEEE802.3af/at/bt	Input 1: 100-240Vac 2.0A(Max) Input 2: 48-55Vdc 7.5A(Max)	Output 1: 55Vdc 1.64A(Max) per port, Total 200W Output 2: 48-55Vdc 1.64A(Max) per port, Total 360W	4,5(+)/7,8(-) 3,6(+)/1,2(-)	N	AC/DC*1 + SFP*1 + PoE*4 + Grounding*1
PT-PIS4PB1T-AC					N	AC/DC*1 + LAN*1 + PoE*4 + Grounding*1
PT-PIS4PB1S-AC-M					Y	AC/DC*1 + SFP*1 + PoE*4 + Grounding*1
PT-PIS4PB1T-AC-M					Y	AC/DC*1 + LAN*1 + PoE*4 + Grounding*1