SenseCAP PoE Injector (48V)

Introduction

The SenseCAP PoE Injector is designed for routers that do not have the embedded PoE (Power on Ethernet) function. It enables you to power and connect the PoE-enabled devices (e.g., SenseCAP M2) to the network over an Ethernet cable. It is suitable for use with SenseCAP series gateways.

The SenseCAP PoE Injector requires AC100-240V input and supports a maximum output power of 30W. The Ethernet port supports 10/100/1000 Mbps self-adaption high-speed Ethernet connection. It has a wide working temperature range from -10 ℃ to 50 ℃, and with seamless ultrasonic bonding, it provides with better protection.

The SenseCAP PoE Injector is with FCC, CE, and RoHS certificates. Its reliable hardware design ensures your automation system stability and runs without interruption. It is the perfect solution for your IoT into the wild applications.

Specification

- Model: MX-PI-48V
- Input: 100-240V AC 50/60Hz 0.9A Max
- Operating Temperature: -10 ℃ ~ 50 ℃
- 10/100/1000M High-Speed POE Port & Ethernet Port
- No-load consumption: ≤0.15W
- Port Lightning Protection
- SMPS Lightning Protection: Common mode 4KV
- Support wall mounted

Application Scenarios

- LoRaWAN Gateway Network: Perfect for SenseCAP Series gateways, especially SenseCAP M1 and SenseCAP M2.
- Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration, etc.
- Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education, and other industries
- Multimedia transmission: Integrated transmission of images, voice, and data, suitable for remote teaching, conference TV, videophone and other applications
- Real-time monitoring: Simultaneous transmission of real-time control signals, images, and data

Part List

- SenseCAP PoE Injector (48V) * 1 pcs
- Power Cable * 1 pcs
## Specifications

| **Power** | Input Voltage: AC 100-240 V 50/60Hz  
Output Voltage: DC 48V/0.5A  
Note: Pin 4 and 5 Positive; Pin 7 and 8 Negative; Pin 1, 2, 3, and 6 for data communication, directly connected with RJ45 Ethernet Port Pin1, 2, 3, and 6. |
| **Ethernet** | 1*10/100/1000Mbps Ethernet Port  
1*10/100/1000Mbps PoE Port  
Note: Pin 1, 2, 3, and 6 for data communication, directly connected with RJ45 PoE Port Pin1, 2, 3, and 6; Pin 4, 5, 7, and 8 not connected |
| **Network protocol** | IEEE802.3 (10Base-T)  
IEEE802.3u (100Base-TX)  
IEEE802.3ab (1000Base-TX)  
IEEE802.3x (Flow control) |
| **Industry Standard** | EMI: FCC Part 15 CISPR (EN55032) class A  
EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT)、EN61000-4-5 (Surge)  
Shock: IEC 60068-2-27  
Free Fall: IEC 60068-2-32  
Vibration: IEC 60068-2-6 |
| **Network Medium** | 10Base-T: Cat3、4、5 or above UTP(≤100m)  
100Base-TX: Cat5 or above UTP(≤100m)  
1000Base-TX: Cat5 or above UTP(≤100m) |
| **Certificate** | CE、FCC、RoHS |
| **Working Environment** | Working Temperature: -10~50°C  
Storage Temperature: -40~70°C  
Working Humidity: 10%~90%，non-condensing  
Storage Temperature: 5%~90%，non-condensing  
Working Height: Maximum10,000 feet  
Storage height: Maximum 10,000 feet |
| **Structure Size** | Product Size: 110*52*35mm  
Package Size: 112*55*38mm  
Product Net-Weight: 0.13Kg  
Product Gross-Weight: 0.15Kg |
| **Package List** | PoE Injector * 1 Power Cable *1 |
Product Pictures