DIGITUS®

10 Gigabit Ethernet PoE+ Injector, 802.3at, 30 W

User Manual

DN-95108

Contents

Package content:

- 10 Gigabit Ethernet PoE+ Injector, 802.3at, 30 W
- Cable for non-heating appliances (safety plug / jack IEC 13)
- Quick reference guide

1. Introduction

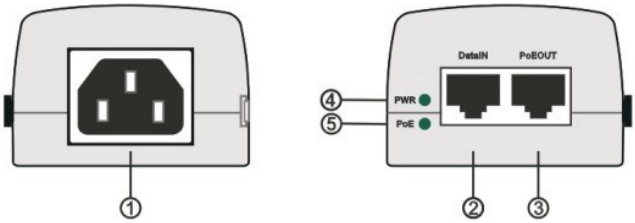
The PoE+ injector from DIGITUS® offers a 30 watt PoE port as a midspan solution. Compact, cost-effective and fully IEEE802.3at-compliant. With support for 10 Gbps network connections, the PoE injector can also be used in environments where the highest possible data transfer speed is essential. The simple solution for remote power supply of wireless access points, IP security camera, VoIP phones and other installations with PoE functionality. The injector makes an external power supply for your devices unnecessary, eliminating the connected power cables / plugs. PoE & PoE+ compatible devices can be supplied with power and data using the network cable, a secure and reliable solution for expanding the existing network infrastructure.

2. Features

Here are the features of **30W injector**:

- Power over Ethernet Injector for 10/100/1000/10G BaseT
- Full IEEE802.3af/at compliant
- Automatically detects and protects PoE equipment from being damaged by incorrect installation
- Internal AC/DC converter-no need for external power brick
- Overload and short circuit protection
- Mixes Ethernet and power into RJ-45 port
- Remote power feeding
- Delivers power up to 100 meters
- Light weight and compact size
- Wall-Mountable design
- Easy Plug-and-Play installation
- Power over Ethernet output power of 52V@0.58A

3. Hardware Description



1. **AC Power Input Connector:**
   This connector connects the AC power source to the PoE Injector.
2. **Data IN:**
   This port is an RJ-45 Ethernet connector where data is received and transmitted through the PoE Injector.
3. **PoE OUT:**
   This port is an RJ-45 Ethernet connector where data is received and transmitted through the PoE Injector and provides PoE power along with the Ethernet data to a PoE device.
4. **PWR LED:**
   This LED indicate the AC power is being provided to the unit or not.
5. **PoE LED:**
   This LED indicate the unit is providing power to the PoE OUT port or not.

4. Installation

Before placing the Unit:

- Do not to cover PoE Injector or block the airflow to the PoE with any foreign objects. Keep the PoE Injector away from excessive heat and humidity and free from vibration and dust.
- Ensure that the cable length from Ethernet network source to the terminal does not exceed 100 meters (330 feet). The PoE is not a repeater and does not amplify the Ethernet data signal.
- Use a splitter if desired; ensure that the splitter is connected close to the terminal and not on the PoE Injector.
- No “on-off” switch exists; simply plug the PoE Injector into an AC power source.

Installing the Unit:

- Connect the PoE Injector to an AC outlet (100-240VAC), using a standard power cord.
- Connect the Data IN jack (input) to the remote Ethernet network switch’s Patch panel and the PoE OUT jack (output) to the terminal.

5. Troubleshooting

PoE Injector dos not power up:

- Verify that a reliable power cord is used.
- Verify that the voltage at the power inlet is between 100 and 240 VAC.
- Remove and re-apply power to the device and check the indicators during power up sequence.

The PD does not operate:

- Verify that the PoE Injector detects a PD.
- Verify that the PD is designed for PoE operation.
- Verify that you are using a standard Category 5/5e/6, straight-wired cable, with four pairs.
- If an external power splitter is in use, replace it with a known-good splitter.
- Ensure input Ethernet cable is connected to the DATA IN port.
- Verify that the PD is connected to the Data & Power port.
- Try to reconnect the same PD into a different PoE Injector. If it works, there is probably a faulty port or RJ45 connection.
- Verify that there is no short over any of the twisted pair cables or over the RJ45 connectors.

The end device operates, but there is no data link:

- Verify that the port indicator on the front panel is continuously lit.
- If an external power splitter is in use, replace it with a known-good splitter.
- Verify that for this link, you are using standard UTP/FTP Category 5 straight (non-crossover) cabling, with all four pairs.
- Verify that the Ethernet cable length is less than 100 meters from the Ethernet source to the load/remote terminal.
- Try to reconnect the same PD into a different PoE Injector If it works, there is probably a faulty port or RJ45 connection.

6. Specifications

Description	
Interfaces	1 x RJ-45 Connector for Data 1 x RJ-45 Connector for PoE out +Data
Indicators	Power, PoE
Standard	IEEE802.3af, IEEE802.3at
Power Method	100-240VAC, 50/60Hz
Output Voltage	52VDC
PoE Budget	30W
Output PoE Pin Assignment	V+(RJ45 Pin3,6), V-(RJ45 Pin1,2)
Dimensions	145.5 x 61.5 x 40 mm
Weight	0.45KG
Operating Temperature	0 to 40°C
Storage Temperature	-10 to 70°C
Operating Humidity	5 to 95% Noncondensing
Pack list	
PoE Injector	1 pcs
User Manual	1 pcs

Hereby Assmann Electronic GmbH declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

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