

tNS-200IN/tNS-200IN-24V

PoE injector



Introduction

The tNS-200IN/tNS-200IN-24V Single Port PoE Injector supports PoE powered devices in industrial environments.

The tNS-200IN/tNS-200IN-24V delivers both data and power over a single standard Ethernet cable to a PoE Powered Device designed to receive both Data and Power through its RJ-45 port connector.

The tNS-200IN-24V is designed with +24 VDC to +48 VDC boost for PoE application where +48 VDC power supply is not available.

Features

| |
|---|
| Auto-detection of PD (powered devices) |
| Over-temperature, over-current and over/under-voltage detection |
| Power Sourcing Equipment (PSE) operation |
| Supplies up to 15.4 W |
| No user settings |
| Tiny packaging fits on your DIN-Rail Mounting |
| Supports operating temperatures from -40 °C ~ +75 °C |

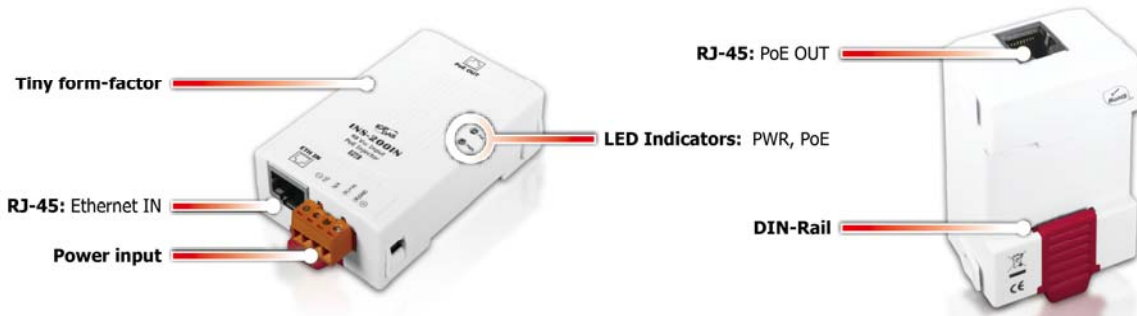
Specifications

| Models | tNS-200IN | tNS-200IN-24V |
|---------------------------------|--|-------------------------------------|
| Interface | | |
| RJ-45 Ports | 1 for Ethernet in, 1 for PoE out | |
| LED Indicators | Power, Power Device is detected | |
| Power Input | | |
| Input Voltage Range | +46 VDC ~ +53 VDC | +18 VDC ~ +32 VDC |
| Power Consumption | 0.4 A @ 48 VDC with PD full loading | 0.9 A @ 24 VDC with PD full loading |
| Protection | Power reverse polarity protection | |
| Frame Ground for EMS Protection | Yes | |
| Connector | 4-Pin Removable Terminal Block | |
| PoE Technology | | |
| PoE Compliance | 100% IEEE 802.3af compliant | |
| PoE Classification | PSE (Power Sourcing Equipment) | |
| PoE Voltage | +46 ~ +55 VDC depending on power input | |
| PoE Power | Up to 15.4 watts per channel | |
| PoE Operation | Automatic detection and power management | |
| PoE Pin Assignments | V+ (Pin 4, 5), V- (Pin 7, 8) | |
| PoE Disconnect Mode | DC disconnect | |
| Mechanical | | |
| Casing | Plastic (Flammability UL 94V-0) | |
| Dimensions (W x L x H) | 52 mm x 27 mm x 86 mm | |
| Installation | DIN-Rail Mounting | |
| Environmental | | |
| Operating Temperature | -40 °C ~ +75 °C | |
| Storage Temperature | -40 °C ~ +85 °C | |
| Ambient Relative Humidity | 10% ~ 90% RH, non-condensing | |

Application:

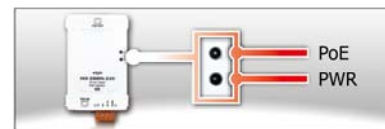


Appearance:



LED Indicator Functions:

| LED | Color | Description |
|-----|-----------|--------------------------|
| PoE | Orange On | Power Device is detected |
| PWR | Red On | Power is On |
| | Red Off | Power is Off |



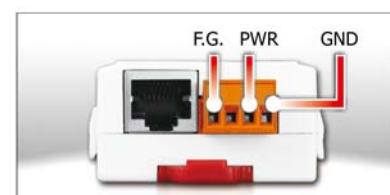
Pin Function For Terminal Block:

External power supply is connected using the removable terminal block:

PWR: Power input and should be connected to the power supply (+)

GND: Ground and should be connected to the power supply (-)

F.G.: F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.



Dimensions:

