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

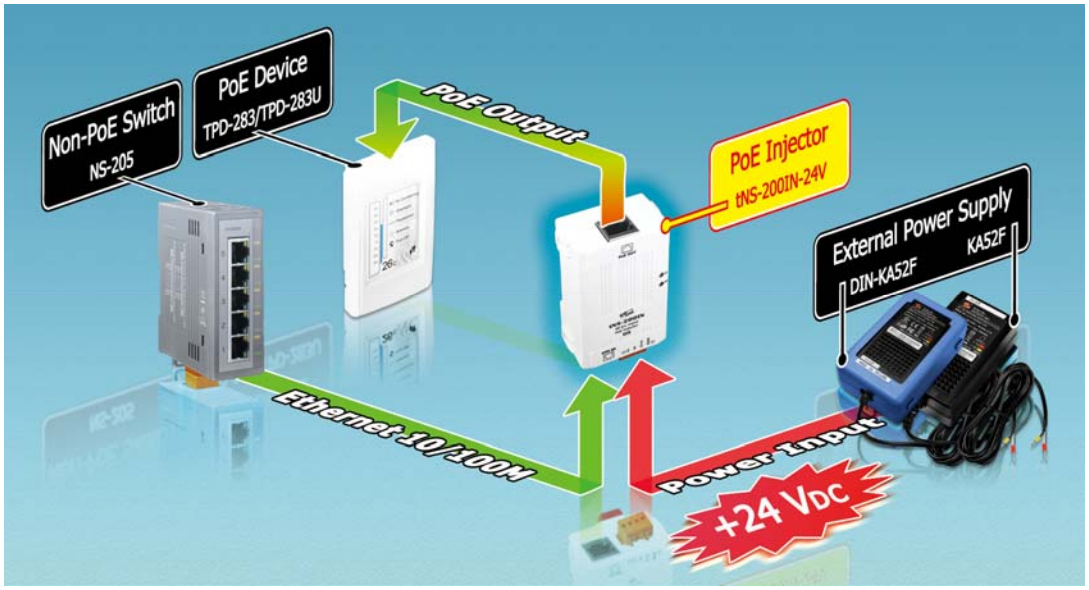
Auto-detection of PD (powered devices)
Over-temperature, over-current and over/under-voltage detection
Power Sourcing Equipment (PSE) operation
Supplies up to 15.4 W
No user settings
Tiny packaging fits on your DIN-Rail Mounting
Supports operating temperatures from -40 °C ~ +75 °C

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	

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Application:

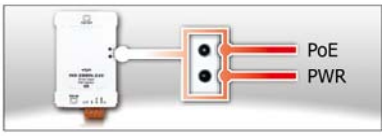


Appearance:



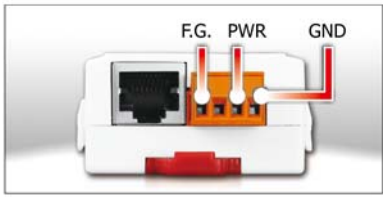
LED Indicator Functions:

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

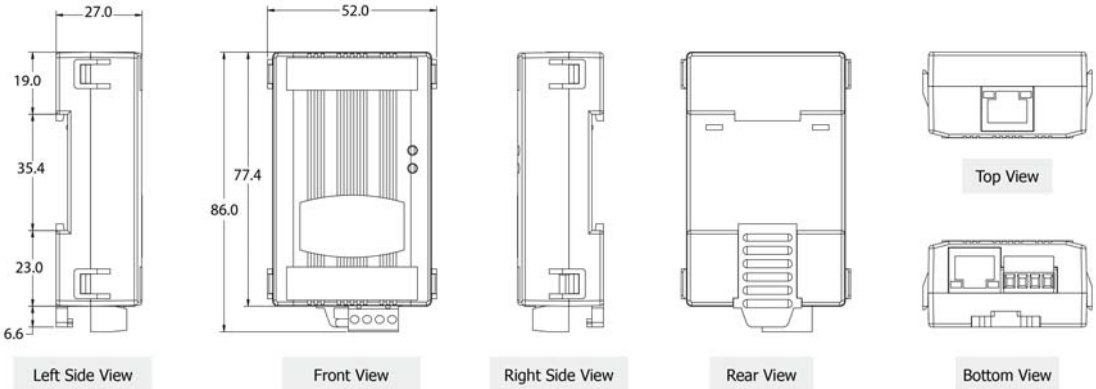


Pin Function For Terminal Block:

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:



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