

PoE injector (RoHS)



tNS-200IN/tNS-200GIN series

PoE + LAN
x1

-40 ~ +75
Wide Temperature

DIN-Rail Mount

CE

FCC

RoHS

WEEE

For tNS-200IN/tNS-200GIN

+46 ~ +53
Input Voltage

Cost-effective

Features ▶▶▶

- Auto-detection of PD (powered devices)
- Over-temperature, over-current and over/under-voltage detection
- No user settings
- Power Sourcing Equipment (PSE) operation
- tNS-200IN series supplies up to 15.4W
- tNS-200GIN series supplies up to 30W
- Tiny packaging fits on your DIN-Rail Mounting
- Cost-effective for tNS-200IN/tNS-200GIN series

Introduction

The tNS-200IN/tNS-200GIN series Single Port PoE Injector supports PoE powered devices in industrial environments. The tNS-200IN/tNS-200GIN series 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/tNS-200GIN-24V is designed with +24 V_{dc} to +48 V_{dc} boost for PoE application where +48 V_{dc} power supply is not available.

Specifications

Models	tNS-200IN	tNS-200IN-24V	tNS-200GIN	tNS-200GIN-24V
Interface				
RJ-45 Ports	1 for Ethernet in, 1 for PoE out, 10/100 BaseT(X)		1 for Ethernet in, 1 for PoE out, 10/100/1000 BaseT(X)	
LED Indicators	Power, Power Device is detected			
Power Input				
Input Voltage Range	+46 V _{dc} ~ +53 V _{dc}	+18 V _{dc} ~ +32 V _{dc}	+46 V _{dc} ~ +53 V _{dc}	+18 V _{dc} ~ +32 V _{dc}
Power Consumption	0.4 A @ 48 V _{dc} with PD full loading	0.8 A @ 24 V _{dc} with PD full loading	0.7 A @ 48 V _{dc} with PD full loading	1.5 A @ 24 V _{dc} 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	+48 V _{dc} depending on power input			
PoE Power	Up to 15.4 W		Up to 30 W	
PoE Operation	Automatic detection and power management			
PoE Pin Assignments	V+ (Pin 4, 5), V- (Pin 7, 8)			
PoE Disconnect Mode	DC disconnect			

Models	tNS-200IN	tNS-200IN-24V	tNS-200GIN	tNS-200GIN-24V
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			

Applications



