

tNS-2001N/tNS-2001N-24V NEW tNS-200GIN/tNS-200GIN-24V NEW

PoE injector (RoHS)





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-2001N 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.

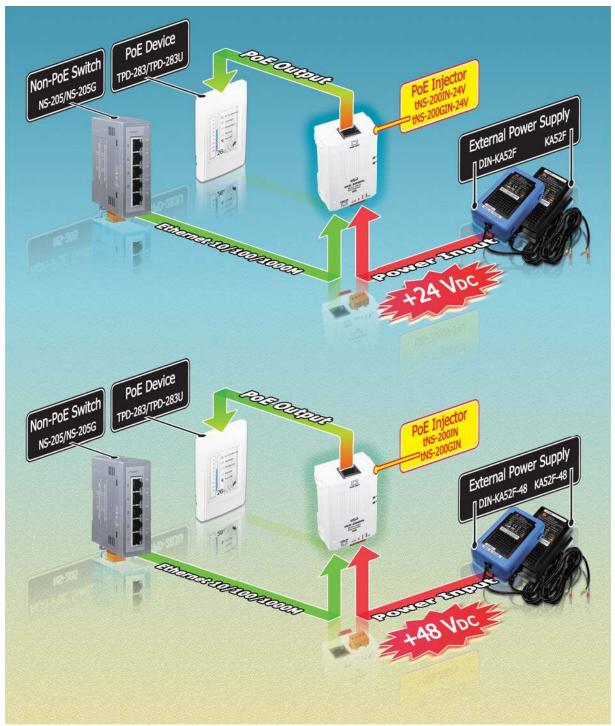
The tNS-200IN-24V/tNS-200GIN-24V is designed with +24 V_{DC} to +48 V_{DC} boost for PoE application where +48 V_{DC} power supply is not available.

-¢- Specifications

Models	tNS-2001N	tNS-2001N-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 VDC ~ +53 VDC	+18 VDC ~ +32 VDC	+46 VDC ~ +53 VDC	+18 VDC ~ +32 VDC
Power Consumption	0.4 A @ 48 Vpc with PD	0.8 A @ 24 Vpc with PD	0.7 A @ 48 Vpc with PD	1.5 A @ 24 Vpc with PD
	full loading	full loading	full loading	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 Vpc depending on power input			
PoEPower	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-2001N	tNS-2001N-24V	tNS-200GIN	tNS-200GIN-24V
Mechanical				
Casing	Plastic (Flammability UL 94	V-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-conden	sing		

-¢- Applications

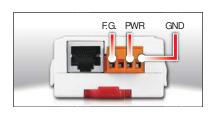




-¢- Pin Function for Terminal Block

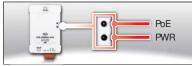
External power supply is connected using the removable terminal block: PWR: Power input and should be connected to the power supply (+) GND: Ground and should be connected to the power supply (-)

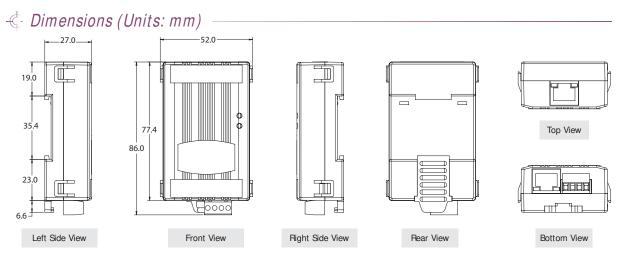
F.G.: F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.



- *LED Indicator Functions*

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





-¢- Ordering Information

tNS-2001N CR	10/100 Base-TX, PoE injector for 1 PoE port (uses spare pairs), +48 Voc input, PoE 15.4W (RoHS)
tNS-2001N-24V CR	10/100 Base-TX, PoE injector for 1 PoE port (uses spare pairs), +24 Voc input, PoE 15.4W (RoHS)
tNS-200GIN CR	10/100/1000 Base-TX, PoE injector for 1 PoE port (uses spare pairs), +48 Voc input, PoE 30W (RoHS)
tNS-200GIN-24V CR	10/100/1000 Base-TX, PoE injector for 1 PoE port (uses spare pairs), +24 Voc input, PoE 30W (RoHS)

-¢- Accessories

MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting	
MDR-60-24	24 V/2.50 A, 60 W Power Supply with DIN-Rail Mounting	
DIN-KA52F-48	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting	
DIN-KA52F	24 V/1.04 A, 25 W Power Supply with DIN-Rail Mounting	