



Wavesys

Industrial Grade Switch

DATASHEET



WINJ-0201-90W-24

Industrial Gigabit PoE++ Injector

-1*10/100/1000Base-T(X) with IEEE 802.3bt PoE-PSE (90W/Port)

+ 1*10/100/1000Base-T(X), 48-55VDC



About the Injector: PoE and Non-PoE are both highly utilized in the industrial networking applications nowadays; however, it sometimes goes to an awkward situation that end-device, e.g. remote camera, supports PoE function but the Ethernet switch does not. Is there any other solution but replacing the switch with a PoE one?

Wavesys's WINJ-0201-90W-24 Series, launched by wavesys, solve the problem simply by deploying data and power from non-PoE switch and power input to the PD device. PoE injector is a brilliant low-cost solution for the case that only one side of devices is supporting PoE function. Therefore, Wavesys's WINJ-0201-90W-24 Series will be your best choice to deal with the lack of PoE function cases.

Additionally, WINJ-0201-90W-24 Series supports power input from 48VDC to 55VDC, ensuring full 90W PoE output, in compliance with IEEE 802.3bt standard for better usage in various industrial markets, like automation, surveillance, and vehicle industry. Besides that, with the fan-less design, this model series also works perfectly in polarized temperatures from -40~75°C and undoubtedly becomes your best option in a harsh environment.

Key Features

- Inject power and Gigabit Ethernet data to PoE P.D. equipment
- IEEE 802.3af/at/bt compliant PoE, Max. PoE power budget 90W
- Provided power booster technologies for low voltage power Input
- Redundant 48-55VDC power inputs design
- Operating temperature range - STD: -10°C ~ 75°C

Specification

Interface

Rj45 Ports	1*10/100/1000Base-T(X)
RJ45 Ports (P.S.E. out)	1*10/100/1000Base-T(X) with PoE+ (compliant IEEE 802.3af/at)
PoE Pin Out	V-, V-, V+, V+, for pin 1, 2, 3, 6; V+, V+, V-, V-, for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode
LED Indicators	System: Power PoE: On-connected to PD devices

Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
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NOTE: The total length from the device A through the Injector to the device B must not exceed 100 meters

Power Requirements

Input Voltage	Dual 48-55VDC redundant power inputs
Power Connection	1 removable 4-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 1.6W full loading
Max. PoE Power Budget	90W

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	26 x 95 x 75 mm (1.02 x 3.74 x 2.95 inch)
Weight	Unit weight: 0.35 kg (0.77 lbs.), Shipping weight: 0.5 kg (1.1 lbs.)
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

Operating Temperature -40°C ~ 75°C (-40°F ~ 167°F)

Storage Temperature -40°C ~ 85°C (-40°F ~ 185°F)

Ambient Relative Humidity 5 to 95%, (non-condensing)

Regulatory Approvals

EMI FCC Part 15 Subpart B Class A, CE EN55022 Class A

EMS IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)

Free Fall IEC60068-2-32

Shock IEC60068-2-27

Vibration IEC60068-2-6

Green RoHS Compliant

Safety UL61010-1, UL61010-2-201

Compliance 2,516,532 hrs.
3, GB, 25°C)

Warranty 5 Years

NOTE: Due to continuous improvement, all product specifications are subject to change without further notice.

Optional Accessories - Power Supply Series

120W Power Supply Series

WEDR-120-48 120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C

WNDR-120-24 120W Industrial DIN-Rail Power Supply, 24VDC/5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

WNDR-120-48 120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

240W Power Supply Series

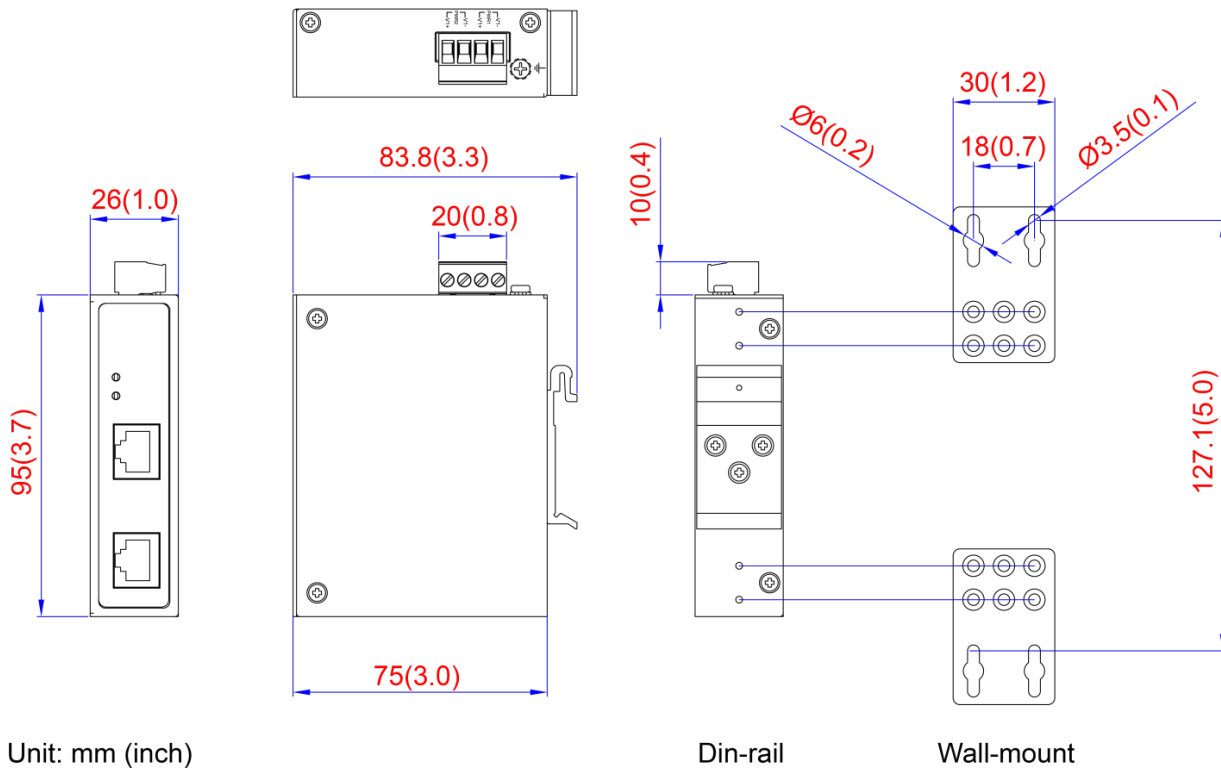
WNDR-240-48 240W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

WSDR-240-24 240W Industrial DIN-Rail Power Supply w/ PFC, 24VDC/10A, Universal 88-264VAC/124-370VDC power input, Metal, -25°C ~ 70°C

480W Power Supply Series

WNDR-480-48 480W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/10A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

Dimension



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