# TN-5308-4/8PoE Series

## -EN 50155 8-port unmanaged Ethernet switches with 4/8 PoE ports



- > 4 or 8 IEEE 802.3af compliant PoE and Ethernet combo ports
- > Provides up to 15.4 watts at 48 VDC per PoE port
- > Complies with a portion of EN 50155 specifications
- > -40 to 75°C operating temperature range (T models)

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## : Introduction

The ToughNet TN-5308-4/8PoE series M12 unmanaged Ethernet switches are designed for industrial applications in harsh environments. The M12 connectors ensure tight, robust connections, and guarantee reliable operation, even for applications that are subject to high vibration and shock. The TN-5308-4/8PoE series Ethernet switches provide 8 Fast Ethernet M12 ports with 4/8 IEEE 802.3af compliant PoE (Power-over-Ethernet) ports. The switches are classified as power source equipment (PSE) and provide up to 15.4 watts of power per port.

## **Specifications**

### Technology

Standards:

IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3x for Flow Control IEEE 802.3af for Power-over-Ethernet **Processing Type:** Store and Forward **Flow Control:** IEEE802.3x flow control, back pressure flow control **Interface** 

M12 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode and auto MDI/MDI-X connection LED Indicators: PWR, LNK/ACT, PoE

#### **Power Requirements**

Input Voltage: 48 VDC (46 to 50 V) Input Current: • TN-5308-4PoE: 1.6 A @ 48 VDC

• TN-5308-8PoE: 2.9 A @ 48 VDC Overload Current Protection: 3 A @ 48 VDC Connection: M12 connector Reverse Polarity Protection: Present

PoE (per port) Max. Output Power: 15.4 W Output Voltage: 44 to 48.5 VDC Max. Output Current: 350 mA Max. Overload Protection: 400 mA

## **Physical Characteristics**

Housing: Metal, IP40 protection Dimensions: TN-5308-4PoE: 60 x 216.6 x 48.7 mm (2.36 x 8.53 x 1.91 in) TN-5308-8PoE: 80 x 216.6 x 52.9 mm (3.15 x 8.53 x 2.1 in) The TN-5308-4/8PoE switches can be used to power IEEE 802.3af compliant powered devices (PDs), eliminating the need for additional wiring. The switches support IEEE 802.3/802.3u/802/3x with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing, and provide an economical solution for your industrial Ethernet network. Models with an extended operating temperature range of -40 to 75°C are also available. The TN-5308-4/8 PoE series Ethernet switches comply with a portion of EN 50155 specifications, covering operating temperature, power input voltage, surge, ESD, and vibration, making the switches suitable for a variety of industrial applications.

#### Weight:

TN-5308-4PoE: 675 g TN-5308-8PoE: 970 g Installation: Panel mounting, DIN-Rail mounting (with optional kit) Environmental Limits

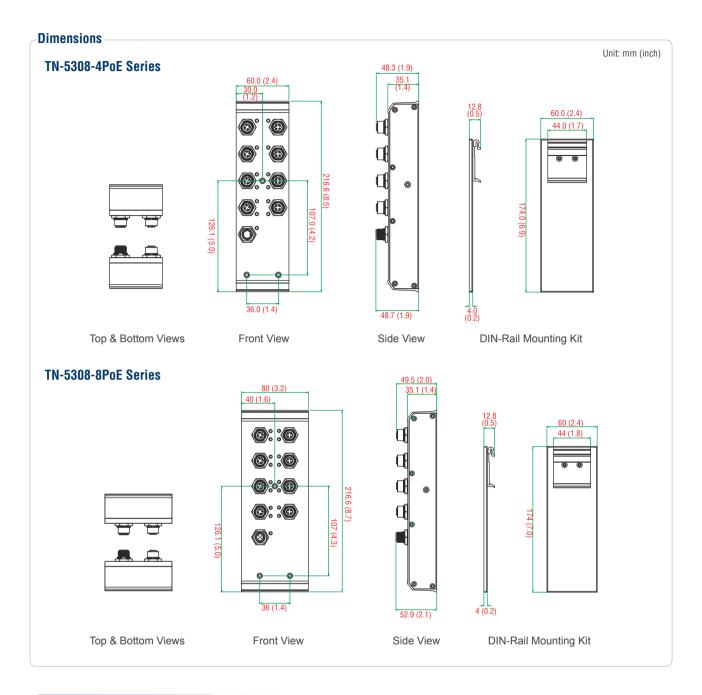
## Operating Temperature:

Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

## **Standards and Certifications**

Safety: UL 508 (Pending) EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS: EN 61000-4-2 (ESD) Level 3 EN 61000-4-3 (RS) Level 3 EN 61000-4-4 (EFT) Level 3 EN 61000-4-5 (Surge) Level 3 EN 61000-4-6 (CS) Level 3 EN 61000-4-8 Rail Traffic: (for panel mounting installations) EN 50155\*. EN 50121-4 \*Complies with a portion of EN 50155 specifications. Please contact Moxa or a Moxa distributor for details. Shock: IEC 61373 Freefall: IEC 60068-2-32 Vibration: IEC 61373 Note: Please check Moxa's website for the most up-to-date certification status. Warrantv

Warranty Period: 5 years Details: See www.moxa.com/warranty



## **Crdering Information**

Available Models		Port Interface	
Standard Temperature (-25 to 60°C)	Wide Temperature (-40 to 75°C)	PoE, 10/100BaseT(X), M12 connector	10/100BaseT(X), M12 connector
TN-5308-4PoE-48	TN-5308-4PoE-48-T	4	4
TN-5308-8PoE-48	TN-5308-8PoE-48-T	8	0

Package Checklist

- TN-5308-4/8PoE switch
- Hardware installation guide
- Warranty card

Note: Conformal coating is available on request.

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**Optional Accessories** (must be purchased separately) **DR-75-48/DR-120-48:** 75/120 W DIN-Rail 48 VDC power supplies **Power Cords, M12 Connectors, Protective Caps:** See following page

# **EN 50155 Switch Accessories**

## : M12/M23 Power Cords

#### CBL-M12D(MM4P)/RJ45-100 IP67

1-meter M12-to-RJ45 Cat-5C UTP Ethernet cable with IP67-rated 4-pin male D-coded M12 connector



### CBL-M12(FF5P)/OPEN-100 IP67

1-meter M12-to-5-pin power cable with IP67-rated 5-pin female A-coded M12 connector



#### CBL-M23(FF6P)/Open-BK-100 IP67

1-meter M23-to-6-pin power cable with IP67-rated 6-pin female M23 connector



## : M12 Connectors

### M12D-4P-IP68

Field-installable M12 D-coded screw-in sensor connector, 4-pin male, IP68-rated



# M12A-5P-IP68

Field-installable M12 A-coded screw-in sensor connector, 5-pin female, IP68-rated



## : M12 IP67 Protective Caps

#### A-CAP-M12F-M

Metal cap for M12 female connector



A-CAP-M12M-M Metal cap for M12 male connector



## **:** M23 Connectors

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### A-PLG-WPM23-01

M23 cable connector, 6-pin female, crimp type



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