TN-5308 Series

- EN 50155 8-port unmanaged Ethernet switches



- > M12 connectors and IP40 metal housing
- > Supports IEEE 802.3/802.3u/802.3x
- > Complies with a portion of EN 50155 specifications
- > -40 to 75°C operating temperature range (T models)

: Introduction

The ToughNet TN-5308 series M12 unmanaged Ethernet switches are designed for industrial applications in harsh environments. The TN series switches use M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. The TN-5308 series Ethernet switches provide 8 Fast Ethernet M12 ports, support IEEE 802.3/802.3u/802/3x with 10/100M, full/half-duplex, MDI/MDI-X

Specifications

Technology

Standards: IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3x for Flow Control 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, 10/100M

Power Requirements

Input Voltage:

TN-5308-LV: 12/24/36/48 VDC (8.4 to 60 VDC)
TN-5308-MV: 72/96/110 VDC (50.4 to 137.5 VDC)
Note: Compliant with EN 50155 on 24/48/72/96/110 VDC
Lower Connect:

Input Current:

- TN-5308-LV: 0.19A @ 12 VDC, 0.10A @ 24 VDC, 0.054A @ 48 VDC
- TN-5308-MV: 0.033A @ 72 VDC, 0.024A @ 96 VDC, 0.021A @ 110 VDC

Overload Current Protection: Present **Connection:**

TN-5308-LV: M12 connector

- TN-5308-MV: M23 connector
- Reverse Polarity Protection: Present

Physical Characteristics

Housing: Metal, IP40 protection Dimensions:

TN-5308-LV: 60 x 216.6 x 36.1 mm (2.36 x 8.53 x 1.42 in) TN-5308-MV: 60 x 216.6 x 53.8 mm (2.36 x 8.53 x 2.12 in)

Weight:

TN-5308-LV: 485 g TN-5308-MV: 685 g Installation: Panel mounting, DIN-Rail mounting (with optional kit)

auto-sensing, and provide an economical solution for your industrial

range of -40 to 75°C are also available. The TN-5308 series Ethernet

switches comply with a portion of EN 50155 specifications, covering

making the switches suitable for a variety of industrial applications.

operating temperature, power input voltage, surge, ESD, and vibration,

Ethernet network. Models with an extended operating temperature

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 **FMS** EN 61000-4-2 (ESD) Level 3 EN 61000-4-3 (RS) exceeds 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.

Warranty

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



: Ordering Information

Available Models		Power Interface	Power Supply	
Standard Temperature (-25 to 60°C)	Wide Temperature (-40 to 75°C)	10/100BaseT(X), M12 connector	LV	MV
			12/24/36/48 VDC (8.4 to 60 V)	72/96/110 VDC (50.4 to 137.5 V)
TN-5308-LV	TN-5308-LV-T	8	1	-
TN-5308-MV	TN-5308-MV-T	8	-	1

Package Checklist

- TN-5308 switch
- Panel mounting kit
- Documentation and software CD
- Hardware installation guide
- Warranty card

Note: Conformal coating is available on request.

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Optional Accessories (must be purchased separately) **Power Cords, M12 Connectors, Protective Caps:** See page 2-29 **DK-TN-5308:** DIN-Rail mounting kit