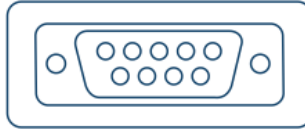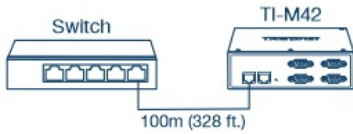# 4-Port Industrial Modbus Gateway

TI-M42 (v1.0R)

- Connect up to four RS-232/RS-422/RS-485 serial devices to a network
- Support DHCP, automatically obtain an IP address and query IP address through serial setting protocol
- Configure via web management or telnet
- Auto-MDI/MDIX, RJ45 port with 10/100Mbps
- Serial port baud rate from 50bps to 921.6Kbps
- Lifetime Warranty

TRENDnet's Industrial Modbus Gateway, model TI-M42, provides four port serial connections, and two fast Ethernet ports at distances up to 100m (328 ft.) using Cat5e cabling . This industrial gateway allows users to connect four modbus serial devices to a network.

Network
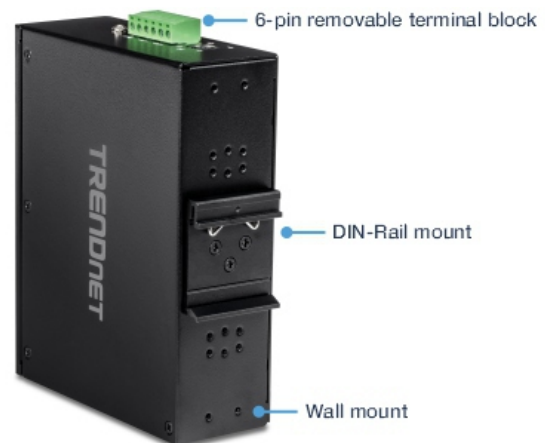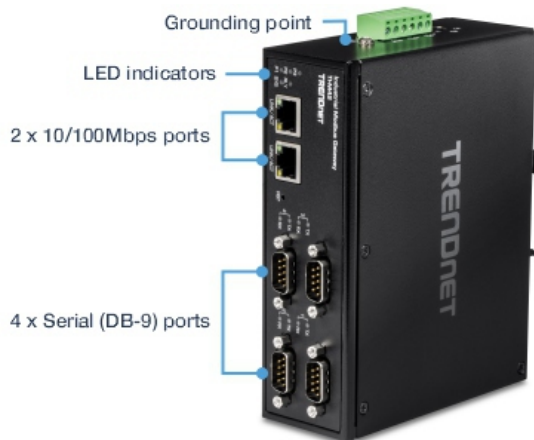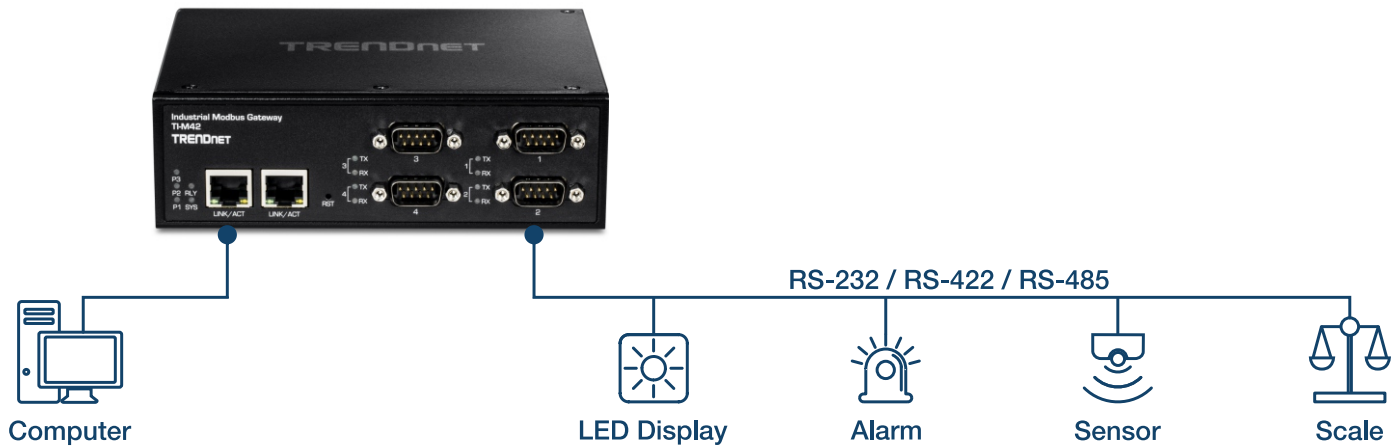Two fast Ethernet ports at distances up to 100m (328 ft.) using Cat5e cabling.

Serial Connector
Connect up to four RS-232/RS-422/RS-485 serial devices to the network.

Industrial Design
Designed with a rugged IP30 rated housing, resistance to a high degree of vibration and shock, protection against ESD/EMI/surge, and operates within a wide operation temperature range -40° - 75° C (-40° – 167° F).

NETWORKING SOLUTION

RS-232 / RS-422 / RS-485

Computer   LED Display   Alarm   Sensor   Scale

Grounding point

LED indicators

2 x 10/100Mbps ports

4 x Serial (DB-9) ports

6-pin removable terminal block

DIN-Rail mount

Wall mount

TRENDnet®

FEATURES

Network
Two fast Ethernet ports at distances up to 100m (328 ft.) using Cat5e cabling
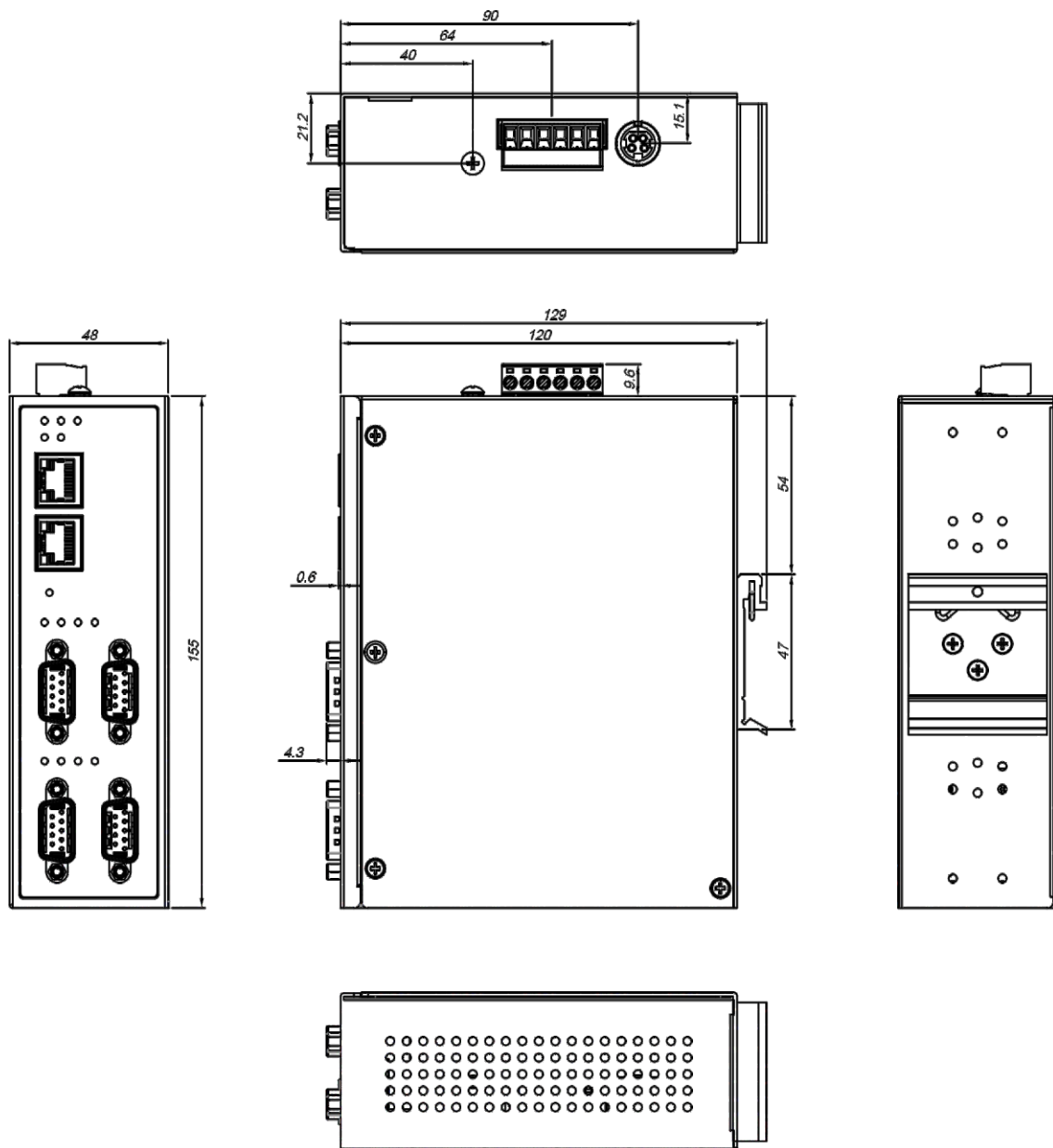
Serial Connector
Connect up to four RS-232/RS-422/RS-485 serial devices to the network

Industrial Design
Designed with a rugged IP30 rated housing, resistance to a high degree of vibration and shock, protection against ESD/EMI/surge, and a wide operation temperature range -40° -75° C (-40° – 167° F)

HOUSING DIMENSION (mm)

SPECIFICATIONS

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- RFC 768 UDP
- RFC 793 TFTP
- RFC 791 IP
- RFC 792 ICMP
- RFC 854 Telnet
- RFC 958 NTP
- RFC 1591 DNS (client only)
- RFC 1908 SNMP v2c
- RFC 2068 HTTP
- RFC 2131 DHCP Client
- EIA / TIA RS-232 / RS-422 / RS-485

Device Interface

- 4 x Serial (DB-9) ports
- 2 x 10/100Mbps ports
- 6-pin removable terminal block
- LED indicators
- DIN-Rail mount
- Wall mount
- Grounding point

Data Transfer Rate

- 50bps – 921600bps

Performance

- Data RAM Buffer: 8 Bit
- MAC Address Table: 2K entries
- Parity Type: Even, Odd, None, Space, Mark
- Stop Bit: 1 or 1.5/2

Special Features

- Supports RS-232, RS-422 and 2-wire RS-485
- Web / Telnet / Windows ®-based management
- Supports RTU Master / Slave and ASCII Master / Slave
- Hardened components rated for extreme temperatures
- Redundant power inputs

DC Power

- Input: 12 – 56 V DC
- Compatible power supply: TI-M6024 (sold separately)
- Max. consumption: 3.84W @ 48V DC

Terminal Block

- Redundant power inputs, alarm relay contact, 6 pin
- Wire range: 0.34mm^2 to 2.5mm^2
- Solid wire (AWG): 12-24/14-22
- Stranded wire (AWG): 12-24/14-22
- Torque: 5 lb. – In / 0.5Nm / 0.56 Nm
- Wire strip length: 7-8mm

MTBF

- 535,534 hours

Housing

- IP30 metal case
- DIN-Rail mount
- Wall mount
- Grounding point

Operating Temperature

- - 40° – 75° C (-40° – 167° F)

Operating Humidity

- Max. 95 % non-condensing

Dimensions

- 103.5 x 81.5 x 32mm (4.1 x 3.2 x 1.25 in.)
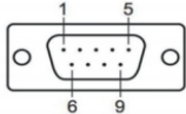
Weight

- 512g (1.13 lb.)

Certifications

- CE
- FCC
- UL
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

Warranty

- Lifetime Warranty

Package Contents

- TI-M42
- Quick Installation Guide
- Removable terminal block
- DIN-Rail and wall mount kit

Pinout	Male DB9	Pin	1	2	3	4	5	6	7	8	9
	1 5	RS-232	DCD	RxD	TxD	DTR	GND	DSR	RTS	CTS	-
		RS-422	TxD+ (A)	TxD- (B)	RxD- (B)	RxD+ (A)	GND	-	-	-	-
	6 9	RS-485	-	-	Data- (B)	Data- (A)	GND	-	-	-	-

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Updated: 5/2/2022