



12-Port GIGABIT MANAGED RACK MNT PoE SWITCH QUICK INSTALLATION GUIDE

INTRODUCTION

The 2352906 series is a managed 10G/2.5G redundant PoE Ethernet switch with 8x 10/100/1000 Base-T(X) P.S.E. and 4x 1G/2.5G/5G/10GBase-T ports, specifically designed for the toughest environment and fully compliant with EN50155. The switch supports Ethernet Redundancy protocols such as TE-Ring (recovery time < 30ms over 250 units), TE-Chain, MRP and MSTP (RSTP/STP compatible) which can protect your mission critical applications from network interruptions or temporary malfunctions. 2352906 also support Power over Ethernet, a system to transmit electrical power up to 30 watts per port, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. The series can also be managed centralized and convenient by TE-Vision, Telnet and console (CLI) configuration.

PACKAGE CONTENTS

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

- 2352906 series Ethernet switch
- Rack mounting kit (Left + Right)
- CD Containing software
- Quick Installation Guide

PREPARATION

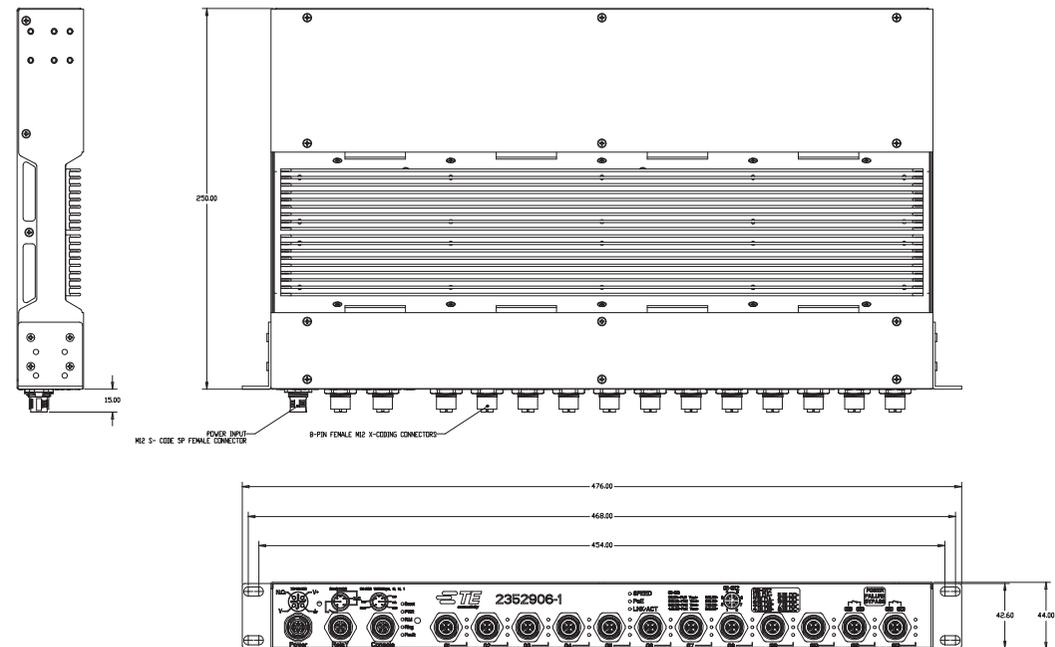
Before you begin installing the device, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety & Warnings

-  **Elevated Operating Ambient:** If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
-  **Reduced Air Flow:** Make sure the amount of air flow required for safe operation of the equipment is not compromised during installation.
-  **Mechanical Loading:** Make sure the mounting of the equipment is not in a hazardous condition due to uneven mechanical loading.
-  **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

DIMENSIONS (in mm)

EN 50155
SWITCH





24-Port GIGABIT MANAGED PoE SWITCH QUICK INSTALLATION GUIDE

PANEL LAYOUTS



1	Reset Button
2	Power status LED
3	R.M. Status LED
4	Ring Status LED
5	Fault LED
6	Power Connector
7	Relay output port
8	Console port

9	PoE enabled Gigabit ethernet ports
10	Link/ACT LED for PoE enabled Gigabit ports
11	PoE indicator for PoE enabled Gigabit ports
12	Speed LED for PoE enabled Gigabit ports
13	1G/2.5G/5G/10GBase-T Ethernet ports with bypass
14	Link/ACT LED for non-PoE Gigabit ports
15	LED for 5G/2.5Gbps Ethernet speed indicator
16	LED for 10G/1Gbps Ethernet speed indicator

INSTALLATION

Rack mounting

Step 1: Install left and right front mounting brackets to the switch using 4 M3 screws on each side provided with switch.

Step 2: With front brackets orientated in front of the rack, nest front and rear brackets together. Fasten together using remaining M4 screws into counter sunk holes.

Step 3: Fasten the front mounting bracket to the front of the rack.

WIRING

For pin assignments please refer to the instructions below:

Grounding

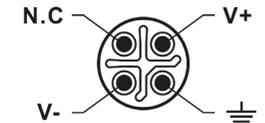
Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the grounding pin on the power connector to the grounding surface prior to connecting devices.

Power port pinouts

The 2352906 series uses the M12 S-coded 4-pin female connector on the front panel for the power input.

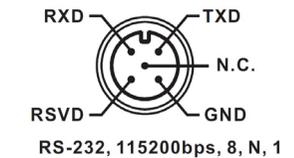
Step 1: Insert a power cable to the power connector on the device.

Step 2: Rotate the outer ring of the cable connector until a snug fit is achieved. Make sure the connection is tight.



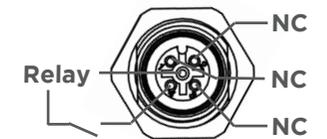
Console port pinout

The switch has one RS-232 (M12 A-Code 5pin) console port, located on the front panel. Use a M12-to-DB9 console cable to connect the console port to your PC's COM port.



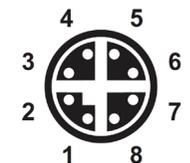
Relay output ports pinouts

The switch uses the M12 A-coded 5-pin female connector on the front panel for relay output. Use a cable with an M12 A-coded 5-pin male connector to connect the relay. The relay contacts will detect user-configured events and form an open circuit when an event is triggered.



M12 X-Code Ethernet ports

Pin No.	Description	Pin No.	Description
1	BI_DA+/Vout+	5	BI_DD+
2	BI_DA-/Vout+	6	BI_DD-
3	BI_DB+/Vout-	7	BI_DC-
4	BI_DB-/Vout-	8	BI_DC+





24-Port GIGABIT MANAGED PoE SWITCH QUICK INSTALLATION GUIDE

PoE power budget

Partnumber	Input Power	PoE power budget per group
2352906-1	72-110VDC	60W
2352906-2		

NETWORK CONNECTION

The device provides Ethernet ports in M12 connector type. According to the link type, the switch uses CAT 3, 4, 5, 5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications

Pin No.	Type	Max Length	Connector
10BASE-T	Cat. 3, 4, 5 100Ω	UTP 100m	M12 X-Coding Connector
100BASE-T	Cat. 5 100Ω UTP	UTP 100m	M12 X-Coding Connector
1000BASE-T	Cat. 5/5e 100Ω UTP	UTP 100m	M12 X-Coding Connector

LOGIN

Default IP address: 192.168.10.1

Default username: admin

Default password: admin

Refer to the user manual for further instructions

RESET

To restore the device configurations back to the factory defaults, press the Reset button for 5 seconds. Once the power indicator starts to flash, release the button. The device will then reboot and return to factory defaults.

LED INDICATORS

After installing the switch and connecting cables, the green power LED should turn on. Please refer to the following table for LED indication.

LED	Color	Status	Description
PWR	Green	On	DC power module activated
R.M	Green	On	Device operating in Ring master mode
Ring	Green	On	Ring enabled
		Blink	Ring structure is broken
Fault	Amber	On	Errors occur (i.e. power failure or port malfunction)
10/100/1000Base-T(X) P.S.E. Ethernet ports			
LNK/ACT	Green	On	Port is linked
		Blink	Transmitting data
PoE	Green	On	Power supplied over Ethernet
Speed	Green	On	Port is running at 1Gbps
	Amber	On	Port is running at 100 Mbps
	-	Off	Port is running at 10Mbps
1G/2.5G/5G/10GBase-T Ethernet ports			
LNK/ACT	Green	On	Port is linked
		Blink	Transmitting data
5G/2.5G	Amber	On	Port is running at 2.5Gbps
	Green	On	Port is running at 5Gbps
10G/1G	Amber	On	Port is running at 1Gbps
	Green	On	Port is running at 10Gbps