# TNS5800ETB-8T-HV
# Layer 3 Wall Mounting Industrial Ethernet Switch
# Quick Installation Guide

## 【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1 Switch ×1 2. Warranty card

3. Certificate

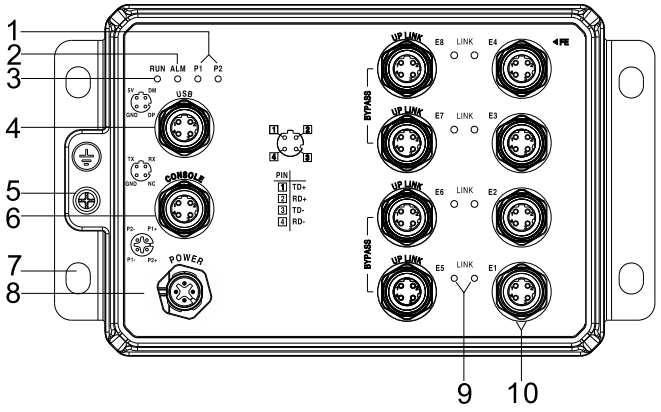
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

## 【Product Overview】

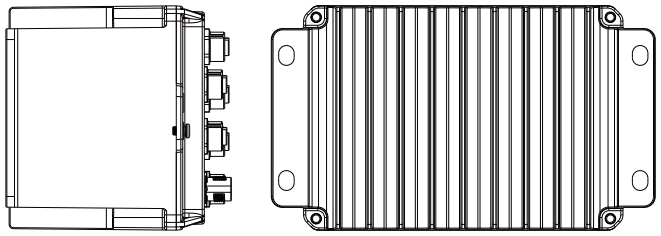
This product is a layer-3 managed wall-mounted industrial Ethernet switch. Its model is TNS5800ETB-8T-HV-N (8 100M M12 with 2 groups of Bypass function + 1 USB M12 + 2 110VDC power supply inputs).

## 【Panel Design】

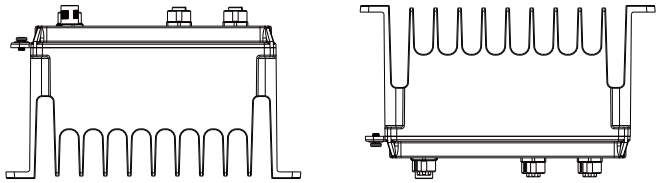
➢ **Front view**




➢ **Left view and rear view**



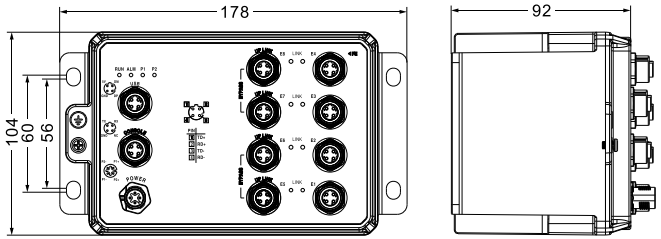
➢ **Bottom view and top view**



1. Power supply indicator (P1-P2)
2. Alarm indicator (ALM)
3. Running indicator (RUN)
4. USB interface (M12)
5. Grounding screw (M5)
6. CONSOLE port
7. Lugs
8. Power input interface (P1-P2)
9. Ethernet port indicator (E1-E8)
10. 100M M12 interface (E1-E8, Bypass: E5-E6 and E7-E8)

## 【Mounting Dimension】

Unit: mm




**Notice Before Mounting:**

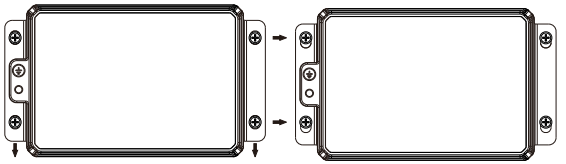
- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

## 【Wall-mounted Device Mounting】

Step 1 On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.

Step 2 Hang the device on the labeled wall, align the bolt to the labeled position, then fix them with a certain gap.

Step 3 Slide the device down to hang on the screw, then tighten the screw, and the installation is finished.



## 【Wall-mounted Device Disassembling】

Step 1 Power off the device.

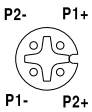
Step 2 Hold the device steadily and screw out the bolt in the wall.

Step 3 Take out the device, disassembling ends.

**Notice Before Powering on:**

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

## 【Power Supply Connection】

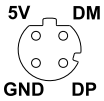



The device supports 2 independent DC power supply inputs. The power supply interface adopts

M12 A-Coded 4-Pin (male) connector, and the power supply input is 110VDC. The M12 pin is defined as follows.

| Pin Definition | Description |
|---|---|
| P1+ | Positive power input |
| P1- | Negative power input |
| P2+ | Positive power input |
| P2- | Negative power input |

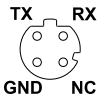
## 【USB Connection】




The device supports 1 USB connector, and the interface adopts M12 A-Coded 4-Pin (male) connector. The M12 pin is defined as follows.

| Pin No. | Definition | Description |
|---|---|---|
| 1 | 5V | Power supply 5V |
| 2 | DM | USB cable D- |
| 3 | DP | USB cable D+ |
| 4 | GND | Grounding |

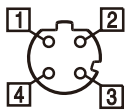
## 【Console Port Connection】




The device provides 1 program debugging port based on RS-232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts M12 D-Coded 4-Pin slot (female). The pin definitions of M12 are shown in the figure:

| Pin No. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Definition | TX- | RX | NC (reserved) | GND |

## 【Communication Interface Connection】




| PIN | |
|---|---|
| 1 | TD+ |
| 2 | RD+ |
| 3 | TD- |
| 4 | RD- |

This device provides 10/100Base-T(X) interfaces E1-E8, supports 2 groups of Bypass: E5-E6 and E7-E8, the interface type is M12 D-Coded 4-Pin slot (female). The pin definitions of M12 are shown as follows:

| Pin No. | Definition | Description |
|---|---|---|
| 1 | TD+ | Positive send data of 100M Ethernet |
| 2 | RD+ | Positive receive data of 100M Ethernet |
| 3 | TD- | Negative send data of 100M Ethernet |
| 4 | RD- | Negative receive data of 100M Ethernet |

## 【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

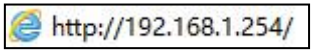
| LED | Indicate | Description |
|---|---|---|
| P1 | ON | Power P1 is connected and running normally |
| | OFF | Power P1 is disconnected or running abnormally |
| P2 | ON | Power P2 is connected and running normally |
| | OFF | Power P2 is disconnected or running abnormally |
| ALM | ON | Power supply or the port link is alarming. |
| | OFF | Power supply, port link without alarm |
| RUN | ON | The device is powering on or the device is abnormal. |
| | OFF | The device is powered off or the device is abnormal. |
| | Blinking | Blinking 1 time per second, system is running normally |
| LINK (E1-E8) | ON | Ethernet port has established a valid network connection |
| | Blinking | Ethernet port is in an active network status |
| | OFF | Ethernet port has not established valid network connection |

## 【Logging in to WEB Interface】

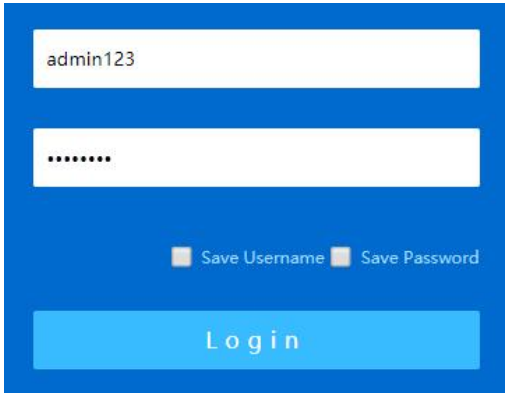
This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.




Step 3 Enter device's username and password in the login window as shown below.




Step 4 Click "Login" button to login to the WEB interface of the device.

**Note:**

- The default IP address of the device is "192.168.1.254".
- The default username and password of the device are "admin123".
- If the username or password is lost, user can restore it to factory settings via management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.

- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

## 【Specification】

| Panel | |
|---|---|
| 100M M12 | 8 10/100Base-T(X), M12(Female), 4-Pin D-Coded, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning; it supports two groups of Bypass |
| USB interface | 1 USB M12(Female), 4-Pin D-Coded |
| Console port | 1 CLI command line management port (RS-232), M12(Female), 4-Pin D-Coded |
| Indicator | Power indicator, alarm indicator, running indicator, interface indicator |
| **Switch Property** | |
| Backplane bandwidth | 50Gbps |
| **Power Supply** | |
| Power input | 2 110VDC power inputs, support anti-reverse connection |
| Connection mode | M12(Male), 4-Pin A-Coded |
| **Power Consumption** | |
| No-load | 7.4W@110VDC |
| Full-load | 8.2W@110VDC |
| **Working Environment** | |
| Working temperature | -40~75℃ |
| Storage temperature | -40~85℃ |
| Working humidity | 5%~95% (no condensation) |
| Protection grade | IP54 (metal shell) |

## 【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)

The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.