

## Teltonika TRB145

# Teltonika TRB145 Digital/Analog I/O Module User Manual

Model: TRB145

Brand: Teltonika

## 1. INTRODUCTION

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The Teltonika TRB145 is a compact, efficient Digital/Analog I/O module designed for industrial applications. It provides robust connectivity and versatile input/output capabilities, making it suitable for various monitoring and control tasks. This manual provides essential information for setting up, operating, and maintaining your TRB145 device.

## 2. DEVICE OVERVIEW

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The TRB145 features multiple ports and indicators for easy integration and monitoring.



Figure 2.1: Front view of the Teltonika TRB145 Digital/Analog I/O Module, showing the Teltonika logo, model number TRB145, power input/output, and default IP address.



Figure 2.2: Angled view of the TRB145, highlighting the side panel which needs to be removed for SIM card insertion, along with the USB port, mobile antenna connector, and reset button.



Figure 2.3: Close-up view of the power input connector and the RS485 port on the TRB145 module.

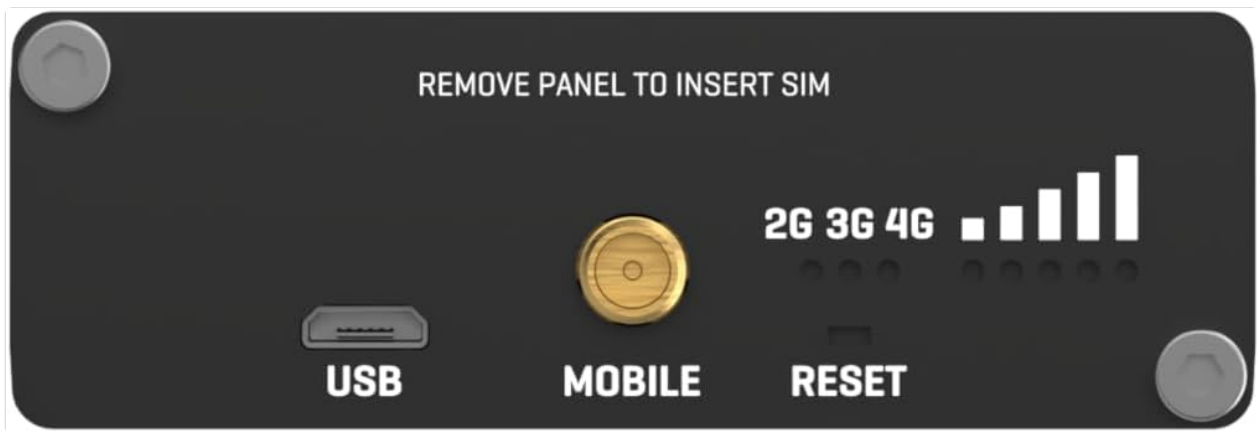


Figure 2.4: Detailed view of the side panel, showing the location for SIM card insertion (requires panel removal), USB port, mobile antenna connector, and the reset button.

## 3. SETUP AND INSTALLATION

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### 3.1. Power Connection

The TRB145 operates on a DC voltage range of 9-30V. Connect the power supply to the designated power input port. Ensure correct polarity to prevent damage to the device.

### 3.2. SIM Card Installation

1. Locate the side panel on the device.
2. Carefully remove the panel to access the SIM card slot.
3. Insert your activated Mini-SIM card into the slot until it clicks into place.
4. Replace the side panel securely.

### 3.3. Antenna Connection

Connect the appropriate mobile antenna to the 'MOBILE' connector on the device. Ensure the antenna is securely fastened for optimal signal reception.

### 3.4. Initial Access

The device's default IP address for configuration is **192.168.2.1**. Connect your computer to the TRB145 via a USB cable or an Ethernet connection (if applicable) and navigate to this IP address in your web browser to access the device's WebUI.

## 4. OPERATING INSTRUCTIONS

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### 4.1. WebUI Access

Once connected, open a web browser and enter <http://192.168.2.1>. Use the default login credentials (usually found on the device label or in the quick start guide) to access the configuration interface. From here, you can configure network settings, I/O parameters, and other device functionalities.

### 4.2. Digital and Analog I/O

The TRB145 supports both digital and analog inputs/outputs. Refer to the WebUI for detailed configuration of

each I/O pin, including input type (digital/analog), output state, and associated logic.

### 4.3. RS485 Communication

The RS485 port allows for serial communication with other industrial devices. Configure the serial port settings (baud rate, data bits, parity, stop bits) via the WebUI to match the connected device.

## 5. MAINTENANCE

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### 5.1. Cleaning

Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.

### 5.2. Firmware Updates

Regularly check the Teltonika Networks official website for the latest firmware updates. Updating the firmware can improve performance, add new features, and address security vulnerabilities. Follow the instructions provided with the firmware update package carefully.

### 5.3. Reset Button

A reset button is provided for restoring the device to factory default settings. To perform a factory reset, power on the device, then press and hold the reset button for approximately 10 seconds until the status LEDs indicate a reset. Use this function with caution as it will erase all custom configurations.

## 6. TROUBLESHOOTING

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### 6.1. No Power

- Ensure the power supply is correctly connected and within the 9-30V DC range.
- Check the power adapter and cable for any damage.

### 6.2. Cannot Access WebUI

- Verify your computer's IP address is in the same subnet as the TRB145 (e.g., 192.168.2.X).
- Ensure the USB cable is properly connected.
- Try clearing your browser's cache or using a different browser.
- Perform a factory reset if you suspect incorrect network configurations.

### 6.3. No Mobile Network Connection

- Check if the SIM card is properly inserted and activated.
- Ensure the mobile antenna is securely connected.
- Verify APN settings in the WebUI are correct for your mobile operator.
- Check signal strength indicators in the WebUI.

## 7. SPECIFICATIONS

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Feature	Value
Product Dimensions	2.54 x 2.93 x 0.98 inches
Item Weight	4.6 ounces (130 Grams)
Item Model Number	TRB145
Manufacturer	Teltonika
Connectivity Technology	USB
Voltage	9-30 Volts (DC)
First Available Date	January 22, 2020

## 8. WARRANTY AND SUPPORT

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### 8.1. Warranty Information

Specific warranty details for the Teltonika TRB145 are typically provided with the product packaging or can be found on the official Teltonika Networks website. Please retain your proof of purchase for warranty claims.

### 8.2. Technical Support

For further technical assistance, troubleshooting, or detailed product documentation, please visit the official Teltonika Networks support portal or contact their customer service directly. Contact information can usually be found on the manufacturer's website.