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Treedix B0DRSD8SJT

Treedix USB-C to USB-C PD3.0 Trigger Module with LCD Display User Manual

Model: B0DRSD8SJT

1. Introduction

Thank you for choosing the Treedix USB-C to USB-C PD3.0 Trigger Module. This device is designed to trigger specific voltages (5V, 9V, 12V, 15V, 20V) from USB Power Delivery (PD) sources, allowing you to power various devices that require these voltages. It features an integrated 0.96-inch LCD screen to display voltage, current, and power, and supports multiple fast charging protocols including PD2.0/PD3.0, QC2.0/QC3.0, and BC1.2.
This manual provides essential information for the safe and effective operation of your module. Please read it thoroughly before use and retain it for future reference.

2. Important Safety Instructions

- **Voltage Matching:** Always ensure the output voltage selected on the trigger module matches the voltage requirements of the device you are powering. Supplying an incorrect voltage can cause irreversible damage to your connected device.
- **Power Limits:** Do not exceed the maximum power output of 100W (20V/5A). Overloading the module can lead to damage or malfunction.
- **Environmental Conditions:** Keep the device away from water, moisture, extreme temperatures, and direct sunlight.
- **Handling:** Handle the module with care. Avoid dropping it or subjecting it to strong impacts.
- **Disassembly:** Do not attempt to disassemble or modify the module. This will void the warranty and may lead to electric shock or damage.
- **Lock Function:** Utilize the key lock function to prevent accidental voltage changes, especially when powering sensitive equipment.

3. Package Contents

Please check the package for the following items:

- Treedix USB-C PD3.0 Trigger Module
- Acrylic protective plate (pre-assembled or for user assembly)

If any items are missing or damaged, please contact your retailer.

4. Product Overview

The Treedix USB-C PD3.0 Trigger Module is a compact device with clear labeling for ease of use.



Figure 4.1: Treedix USB-C PD3.0 Trigger Module highlighting its key features.

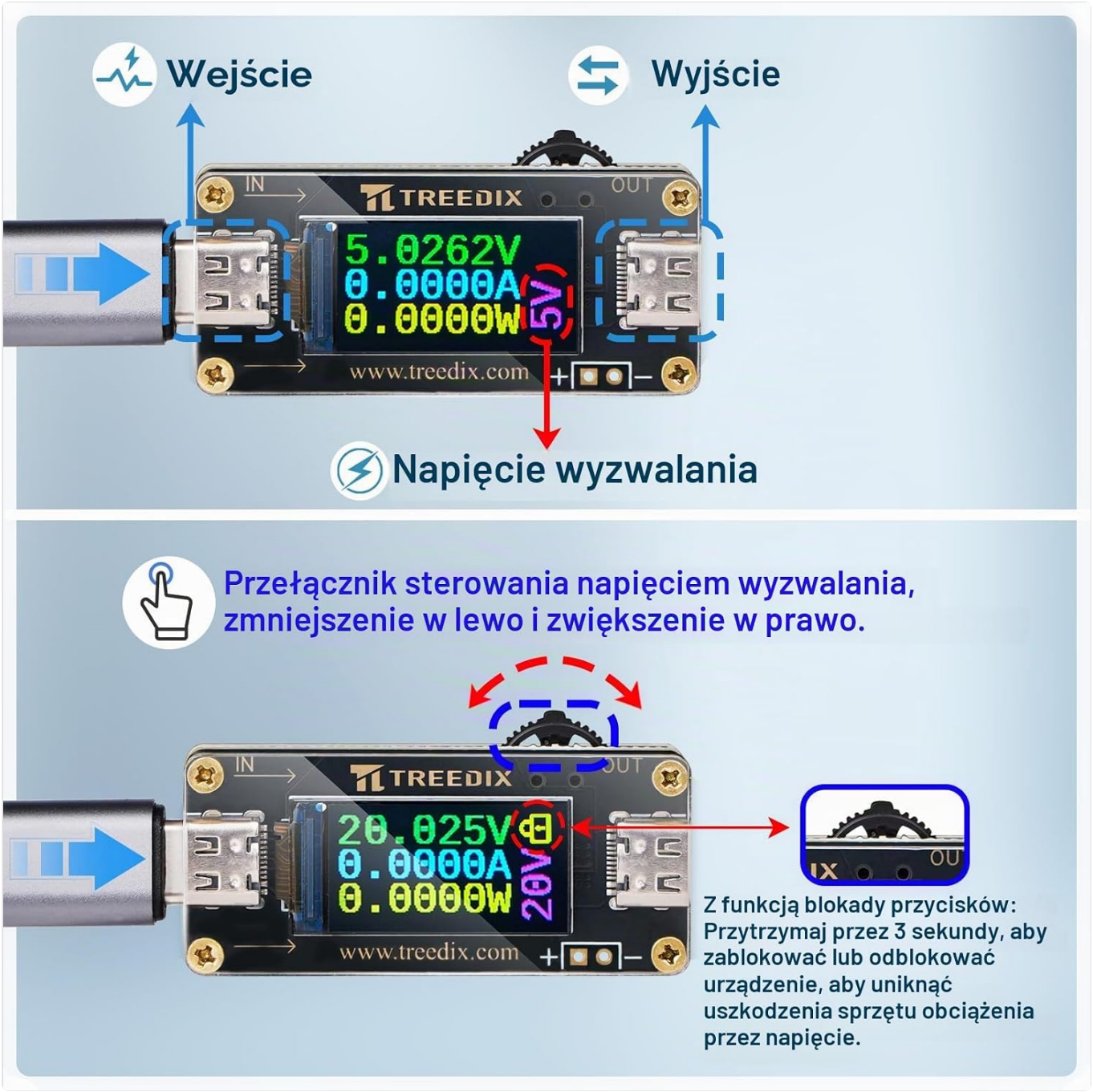

Figure 4.2: Detailed view of the module's input, output, display, and control button.

Components:

- **USB-C IN Port:** Connects to a USB-C Power Delivery (PD) charger or power source.
- **USB-C OUT Port:** Connects to the device you wish to power.
- **0.96-inch LCD Display:** Shows real-time voltage (V), current (A), and power (W) readings.
- **Voltage Adjustment Button/Dial:** Used to select the desired output voltage and to lock/unlock the device.

5. Setup

Follow these steps to set up your Treedix USB-C PD3.0 Trigger Module:

1. **Connect Power Source:** Plug a USB-C Power Delivery (PD) compatible charger or power bank into the**USB-C IN** port of the trigger module. The LCD screen will illuminate, displaying the current voltage, current, and power.
2. **Select Desired Voltage:** Rotate the voltage adjustment button/dial to cycle through the available output voltages (5V, 9V, 12V, 15V, 20V). Observe the LCD screen to confirm the selected voltage.

3. **Connect Target Device:** Once the correct voltage is selected, connect your target device (e.g., router, modem, battery charger) to the **USB-C OUT** port of the trigger module.
4. **Verify Operation:** Check if your connected device is receiving power and operating correctly. The LCD will show the current draw (Amps) and power consumption (Watts) of the connected device.

6. Operating Instructions

6.1. Powering On and Display

The module powers on automatically when connected to a USB-C PD power source. The LCD screen will immediately display:

- **Voltage (V):** The current output voltage.
- **Current (A):** The current being drawn by the connected device.
- **Power (W):** The total power consumed by the connected device.

6.2. Adjusting Output Voltage

The module supports five fixed voltage outputs: 5V, 9V, 12V, 15V, and 20V.

1. Before connecting your device, or if your device supports hot-swapping voltages, rotate the adjustment button/dial.
2. Each click or turn will cycle to the next available voltage.
3. Stop at the voltage required by your connected device.



Figure 6.1: Five-stage voltage regulation display.

6.3. Lock Function

To prevent accidental voltage changes, the module features a lock function:

- **To Lock:** Press and hold the adjustment button/dial for approximately 3 seconds. A lock icon will appear on the LCD screen, and the voltage will be fixed.
- **To Unlock:** Press and hold the adjustment button/dial again for approximately 3 seconds. The lock icon will disappear, and you can now adjust the voltage.

7. Wide Applications

The Treedix USB-C PD3.0 Trigger Module is versatile and can be used in various scenarios:

- **DC Power Source:** Use it to provide specific DC voltages to devices that typically require a barrel jack input, by converting USB-C PD power.
- **Powering Network Devices:** Ideal for powering routers, optical modems, and other network equipment that

operate on 5V, 9V, or 12V.

- **Battery Chargers:** Can be used to power various battery chargers that accept DC input within the module's voltage range.
- **DIY Projects:** A convenient tool for hobbyists and makers needing a stable, adjustable DC power source for their projects.



Figure 7.1: Example of the module being used to power another device.

Important Note: When connecting any device, always pay attention to its maximum allowable input voltage to avoid damage caused by overvoltage.

8. Specifications



Figure 8.1: Product dimensions and key parameters.

Feature	Specification
Model	B0DRSD8SJT
Input Voltage	USB-C PD (5V, 9V, 12V, 15V, 20V)
Output Voltage	Adjustable: 5V, 9V, 12V, 15V, 20V
Max Current	5 Amperes
Max Power	100 Watts
Supported Protocols	PD2.0/PD3.0, QC2.0/QC3.0, BC1.2
Display	0.96-inch LCD
Interface	USB Type-C (Input & Output)

Dimensions (L x W x H)	4.8 cm x 2 cm x 1 cm (approx. 1.9 x 0.8 x 0.4 inches)
Color	Black
Included Components	USB-C trigger module, Acrylic plate

9. Maintenance

To ensure the longevity and proper functioning of your Treedix USB-C PD3.0 Trigger Module, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the device. Do not use liquid cleaners, aerosols, or solvents.
- **Storage:** Store the module in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Avoid dropping the device or exposing it to physical shocks.
- **Moisture:** Keep the device dry. Moisture can damage internal components.

10. Troubleshooting

If you encounter issues with your Treedix USB-C PD3.0 Trigger Module, please refer to the following common problems and solutions:

- **Problem:** LCD screen does not light up.
  Solution: Ensure the USB-C IN port is securely connected to a functional USB-C Power Delivery (PD) power source. Try a different USB-C cable or power source.
- **Problem:** Connected device is not powering on.
  Solution:
  a. Verify that the correct voltage is selected on the trigger module for your device.
  b. Check if the trigger module's output is locked (unlock it if necessary).
  c. Ensure your USB-C PD power source can supply enough power (voltage and current) for both the module and your connected device.
  d. Test the connected device with its original power supply to confirm it is functional.
- **Problem:** Module shuts off or voltage drops under load.
  Solution: This may indicate that the connected device is drawing more power than the module or the power source can provide. Ensure the total power consumption does not exceed 100W (20V/5A). Some devices may have high peak current demands that exceed the module's capabilities. Try reducing the load or using a more powerful USB-C PD source.
- **Problem:** Voltage cannot be adjusted.
  Solution: Check if the lock function is active. Press and hold the adjustment button for 3 seconds to unlock the voltage adjustment.

If the problem persists after trying these solutions, please contact customer support.

11. Warranty and Support

For warranty information, please refer to the terms and conditions provided by your retailer at the time of purchase. Keep your proof of purchase for warranty claims.
For technical support, product inquiries, or assistance with troubleshooting beyond what is covered in this manual, please contact Treedix customer service through the retailer's platform or the official Treedix support channels.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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