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› DWEII USB-C PD/QC Trigger Board Module Instruction Manual

DWEII 88ac4dd0-16e3-4812-80a4-a3431f7b9e82

DWEII USB-C PD/QC Trigger Board Module Instruction Manual

Model: 88ac4dd0-16e3-4812-80a4-a3431f7b9e82

1. INTRODUCTION

The DWEII USB-C PD/QC Trigger Board Module is designed to convert a fast-charging USB-C power source into a fixed DC voltage output. This module allows users to "trick" compatible PD (Power Delivery) or QC (Quick Charge) chargers and power banks into outputting specific voltages (9V, 12V, 15V, 20V) for various applications, such as powering routers or other DC-powered devices. It also facilitates converting traditional DC-powered devices to use a modern Type-C power supply.

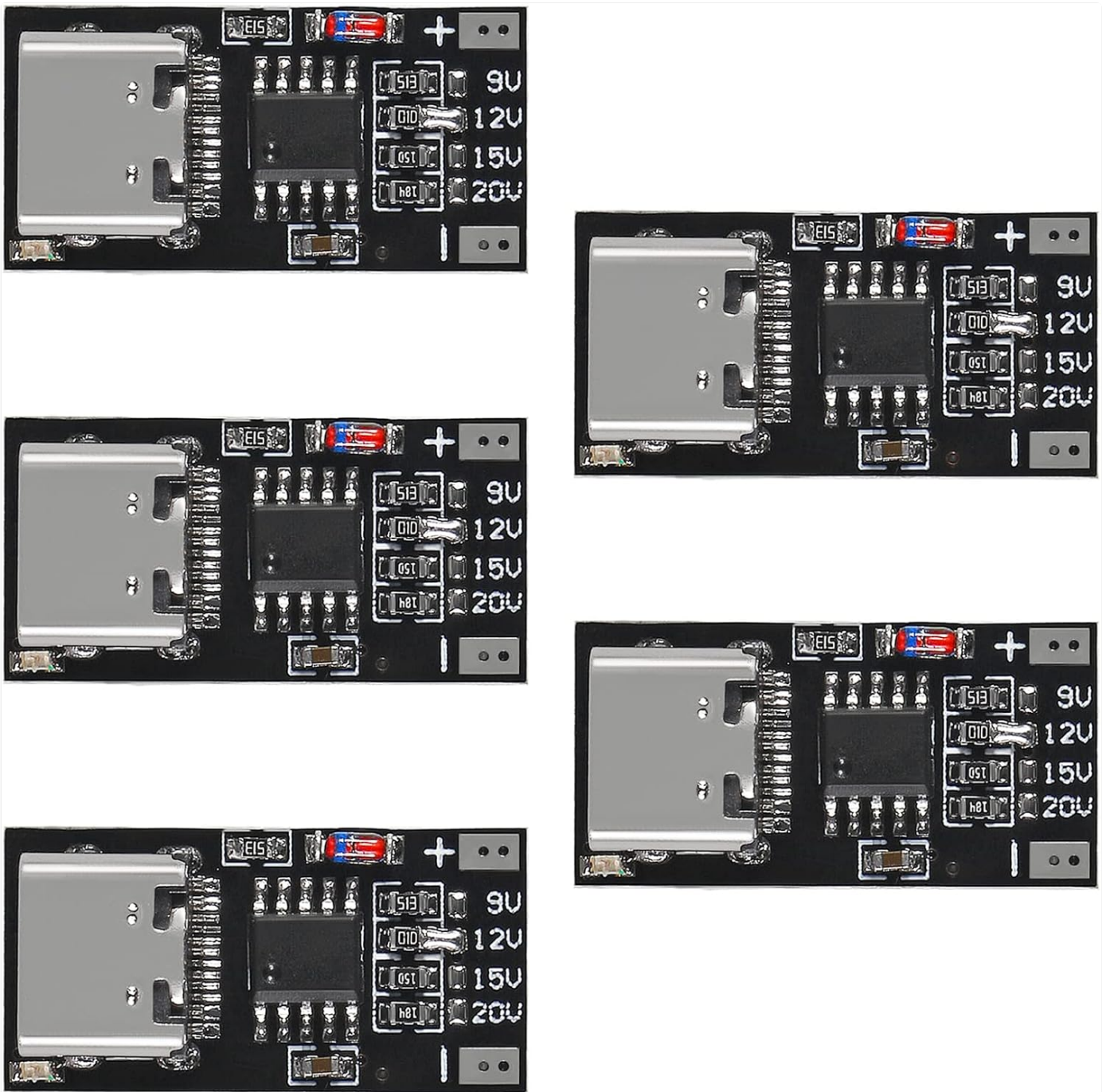
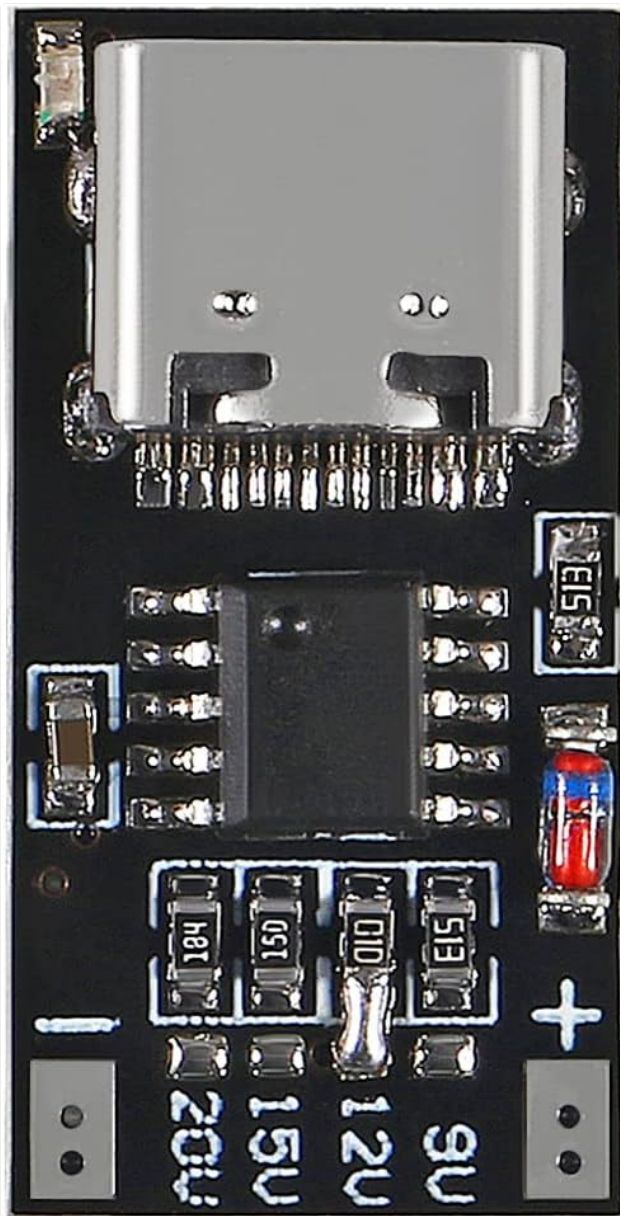


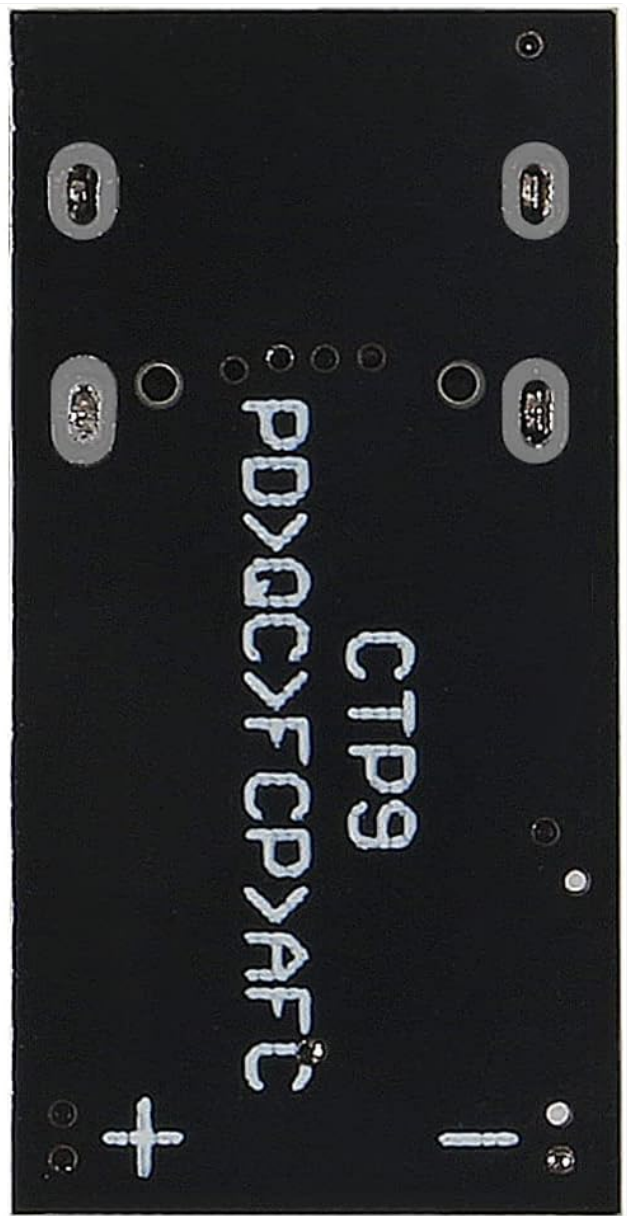
Image 1.1: Overview of five DWEII USB-C PD/QC Trigger Board Modules.

2. KEY FEATURES

- **Protocol Support:** Compatible with multiple fast charging protocols including PD3.0/2.0, PPS/QC4+, QC3.0/2.0, FCP, and AFC.
- **Voltage Output:** Configurable fixed voltage outputs of 9V, 12V, 15V, or 20V.
- **Compact Design:** Small form factor, measuring approximately 23mm x 11.5mm x 4mm.
- **Versatile Application:** Ideal for converting fast charging power sources into DC power supplies for various electronic projects and devices.



FRONT



BACK

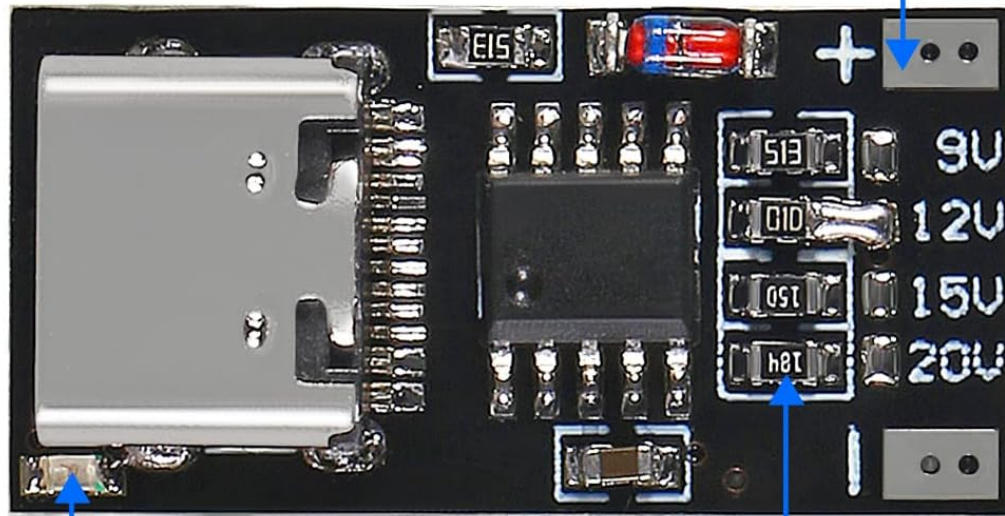
Image 2.1: Front and back views of the module, showing the USB-C port and component layout.

3. SETUP AND VOLTAGE CONFIGURATION

The module comes pre-configured, typically for 12V output. To change the output voltage, you must modify the solder bridges on the board. This process requires basic soldering skills and appropriate tools.

3.1 Identifying Key Components

Output Voltage Pad



Set The Output Voltage

Power Type-C Port

Image 3.1: Key components for voltage configuration.

- **Power Type-C Port:** Input for the USB-C fast charger.
- **Output Voltage Pads:** Solder pads for connecting your device's positive (+) and negative (-) power inputs.
- **Voltage Selection Pads:** Designated areas on the board labeled 9V, 12V, 15V, and 20V for setting the desired output voltage.

3.2 Changing Output Voltage

1. **Identify Current Configuration:** The module is often pre-set to 12V. This is typically indicated by a tiny zero-ohm resistor or a solder bridge connecting the 12V selection pad.
2. **Remove Existing Bridge:** If the module is pre-set to a voltage other than your desired output, you **must** carefully remove the existing solder bridge or zero-ohm resistor from the corresponding voltage selection pad. Failure to do so may result in incorrect voltage negotiation or the module defaulting to a lower voltage.
3. **Select Desired Voltage:** Locate the pads labeled for your desired output voltage (9V, 12V, 15V, or 20V).
4. **Create Solder Bridge:** Carefully apply solder to bridge the two pads corresponding to your chosen voltage. This creates an electrical connection that signals the module to request that specific voltage from the connected fast charger.
5. **For 5V Output:** If you require a 5V output, ensure all voltage selection pads are left open (no solder bridges). The module will default to 5V if no specific voltage is requested or if the connected charger cannot provide the requested voltage.

Important Note: Always ensure your connected fast charger supports the requested voltage. If the charger cannot provide the selected voltage, the module will automatically negotiate the highest available voltage supported by the

charger (e.g., if 20V is requested but only 9V is available, it will output 9V).

4. OPERATION

- 1. Connect Power Source:** Plug a compatible USB-C fast charger (PD/QC enabled) into the Power Type-C Port of the module.
- 2. Connect Load:** Connect your target device to the Output Voltage Pads. Ensure correct polarity (+ and -).
- 3. Verify Output:** It is recommended to verify the output voltage with a multimeter before connecting sensitive equipment. A small blue status LED next to the USB-C port may indicate power presence.

The actual output current and power are determined by the capabilities of your fast charging source and the load connected to the module. The module supports a maximum current of 5A, provided the power source and load can handle it.

5. MAINTENANCE

The DWEII USB-C PD/QC Trigger Board Module is a low-maintenance electronic component. Follow these guidelines for optimal performance and longevity:

- **Keep Dry:** Avoid exposure to moisture or liquids.
- **Cleanliness:** Keep the board free from dust and debris. Use a soft, dry brush if cleaning is necessary.
- **Handle with Care:** Avoid physical shock or excessive force, especially around the USB-C port and solder points.
- **Temperature:** Operate within typical room temperatures. Avoid extreme heat or cold.

6. TROUBLESHOOTING

No Output Voltage / Incorrect Voltage:

- **Charger Compatibility:** Ensure your mobile phone charger or power bank supports fast charging protocols (PD/QC) and can deliver the desired voltage. Standard 5V USB chargers will not trigger higher voltages.
- **Voltage Selection:** Double-check the solder bridges on the module. Ensure only the desired voltage is bridged and that any previous bridges (especially the default 12V bridge) have been completely removed.
- **Charger Capacity:** If the requested voltage is higher than what the charger can provide, the module will automatically downshift to the highest available voltage.
- **Output Load:** Ensure your project or device connected to the output pads does not have reverse voltage or excessive current draw that could prevent voltage negotiation. Some devices may require current limiting on the project side.

Module Not Functioning:

- **Input Power:** Verify that the USB-C fast charger is providing power.
- **Connections:** Check all solder connections for continuity and proper contact.
- **Damage:** Inspect the board for any visible damage to components or traces.

7. SPECIFICATIONS

Brand	DWEII
Model Number	88ac4dd0-16e3-4812-80a4-a3431f7b9e82

Supported Protocols	PD3.0/2.0, PPS/QC4+, QC3.0/2.0, FCP, AFC
Output Voltages	Configurable 9V, 12V, 15V, 20V (5V default if no bridge)
Maximum Current	5A (dependent on power source and load)
Dimensions (L x W x H)	23mm x 11.5mm x 4mm (approx. 0.90 x 0.47 x 0.16 inches)
Item Weight	0.317 ounces (approx. 0.01 Kilograms)

PD QC Fast Charge Voltage Decoy Board

9/12/15/20V Voltage Optional

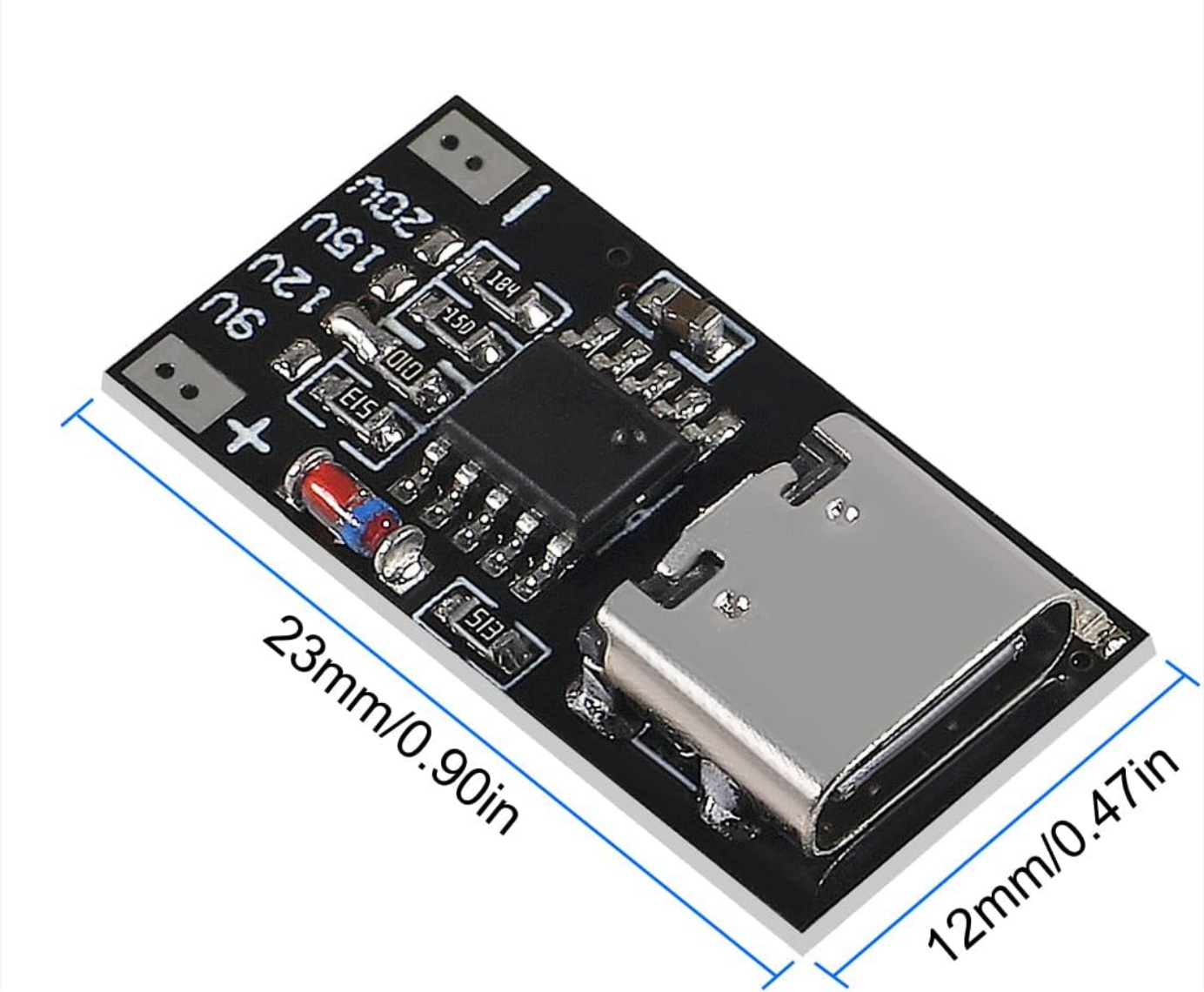


Image 7.1: Module dimensions.

8. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your DWEll USB-C PD/QC Trigger Board Module, please refer to the retailer or manufacturer's official website where the product was purchased. As this is a component for DIY projects, warranty terms may vary. It is recommended to retain your proof of purchase.

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