

ZYPDS-02 USB-PD TRIGGER MODULE

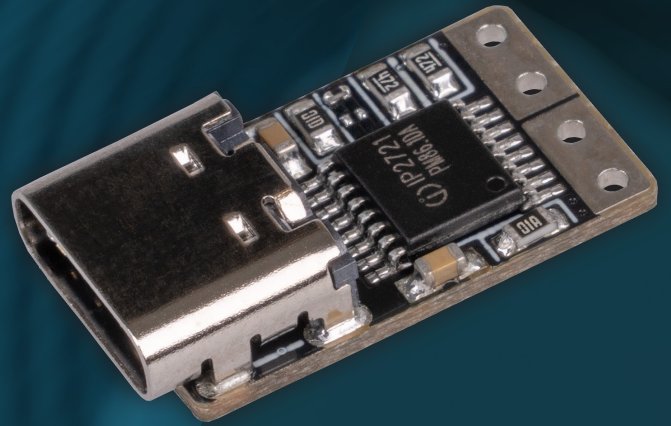
COMPACT USB-C POWER DELIVERY INTERFACE FOR FIXED VOLTAGE SELECTION

5 V / 9 V / 12 V

JOY-IT

SPECIAL FEATURES

- ✓ Compact USB-C PD trigger module for fixed voltage requests (5 V / 9 V / 12 V)
- ✓ Supports USB Power Delivery 2.0 and 3.0
- ✓ Simple voltage configuration by removing one or two resistors
- ✓ Robust design with USB-C input and solder pad output for easy integration
- ✓ Ideal for development, testing, and laboratory applications requiring stable supply voltages



The ZYPDS-02 USB-PD Trigger Module is a highly compact and versatile board designed to request defined voltage levels from USB-C Power Delivery (PD) power supplies. It offers a simple, hardware-based solution to access fixed output voltages directly from modern USB-C adapters — without the need for software configuration or microcontroller control. This makes it an excellent choice for test environments, prototype setups, product development, and laboratory applications where stable and clearly defined supply voltages are essential.

In its default configuration, the module requests 5 V from the connected PD power source. By selectively removing one or two onboard resistors, it can be permanently adjusted to request 9 V or 12 V instead. This configuration method provides a durable and reliable setup, ideally suited for projects that require a fixed voltage output rather than frequent switching between different levels. The design focuses on stability and long-term use, making it particularly valuable for embedded systems and permanent test installations.

The ZYPDS-02 module is fully compatible with USB Power Delivery 2.0 and 3.0, allowing seamless operation with a wide range of PD-compliant chargers and power supplies. Through the standardized PD negotiation process, it automatically requests the defined voltage level from the connected source — ensuring consistent and safe power delivery without any manual intervention or external control logic.

In practice, the ZYPDS-02 trigger module is ideal for powering development boards, single-board computers, sensors, or other devices that rely on specific voltage levels but lack their own PD communication capability. It's equally suitable as a diagnostic or testing tool for evaluating USB-C PD adapters and verifying their output behavior under different voltage requests.

Note: The ZYPDS-02 requires a USB-C PD power supply that supports the selected voltage level. It does not function as a voltage converter — instead, it requests the desired voltage directly from the connected PD-compliant power source.

MAIN FEATURES

Supported protocols	PD2.0, PD3.0
Output voltage	5 V (default), 9 V, 12 V
Output current	5 A max
Output power	60 W max
Input interface	USB Type C
Output interface	Solder pads
Output voltage selection	By desoldering one or two resistors

FURTHER INFORMATION

Weight	2 g
Dimensions	19 x 10 x 5 mm
Item number	COM-ZYPDS-02
Scope of delivery	1x USB-PD trigger module
Customs tariff number	8473302000
EAN	4250236830438

