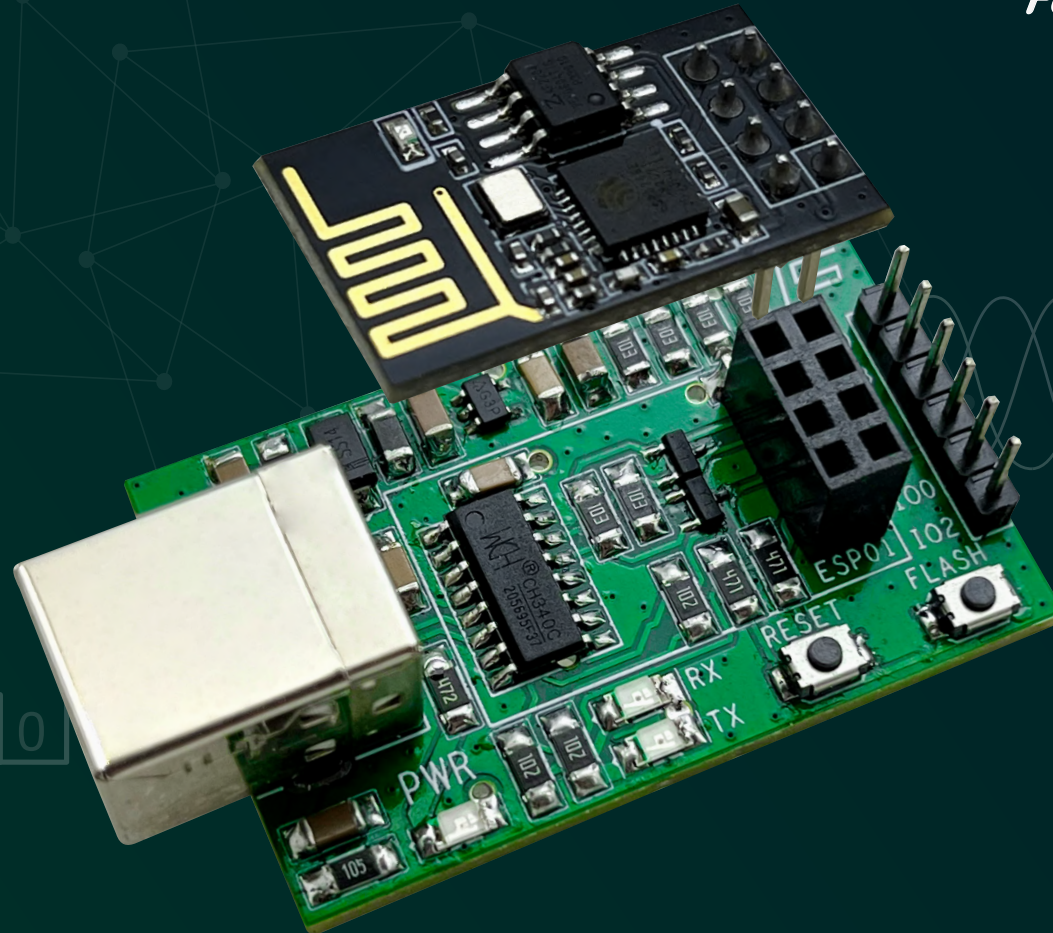




ESP-01 Programmer/Adapter

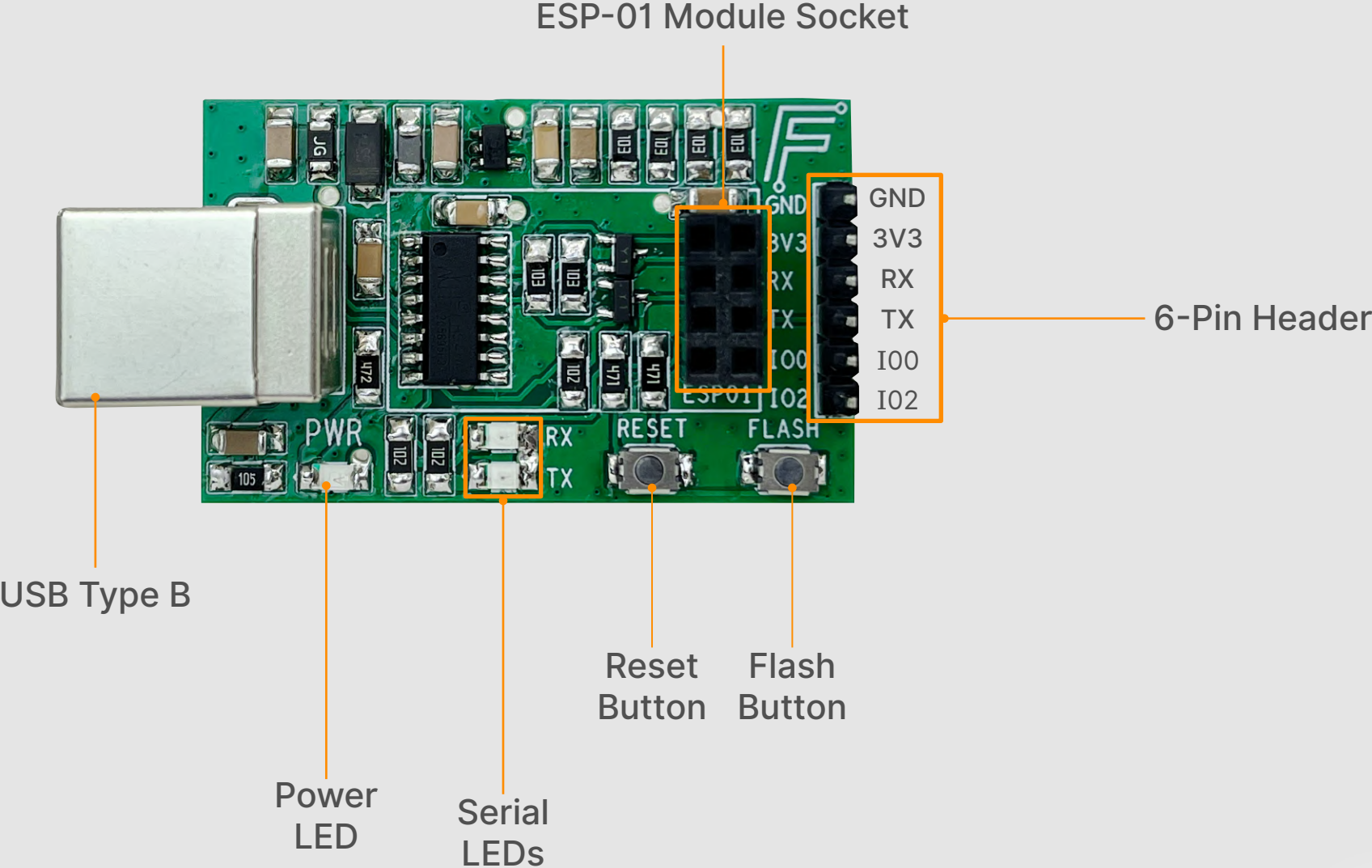
General Description

The **ESP-01 Programmer / Adapter** provides a convenient USB interface for programming, debugging, and communicating with **ESP-01 modules**. It integrates a **CH340C** USB-to-UART converter, NodeMCU-style **automatic** reset and flash circuitry. A dedicated **6-pin male header** provides direct access to **GND, 3.3 V, RX, TX, IO0**, and **IO2**, allowing IO0 and IO2 to be conveniently used as external GPIOs.

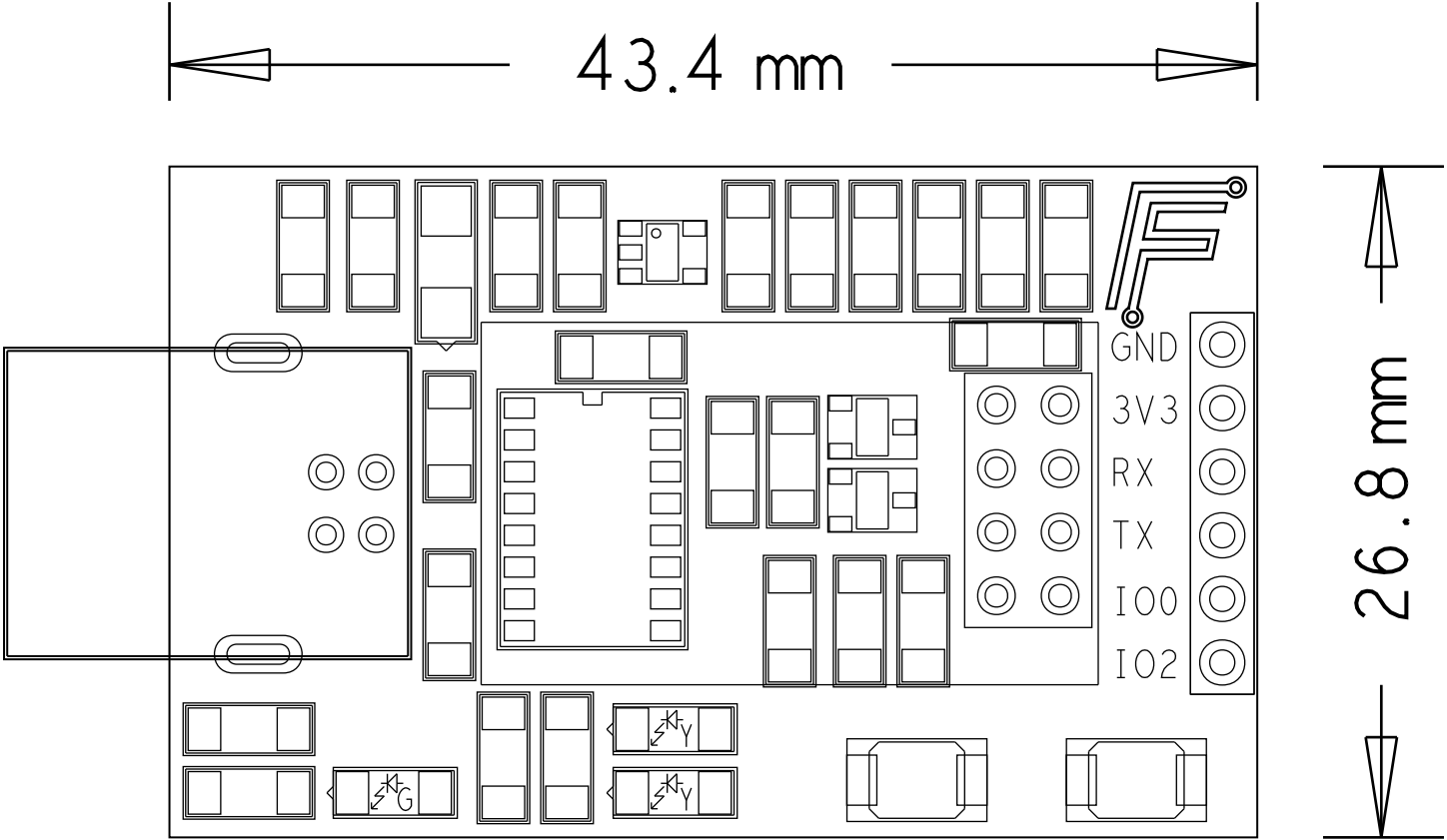
Features

- **ESP-01 Interface:** 8-pin female header for direct connection to ESP-01 modules.
- **USB Interface:** USB Type-B connector with integrated CH340C USB-to-UART converter.
- **3.3 V Power Supply:** Buck-regulated 3.3 V output, up to 600 mA.
- **UART Access:** Direct RX and TX connections through the external header.
- **GPIO Access:** IO0 and IO2 exposed through the external header for convenient GPIO use.
- **Programming:**
 1. Automatic: NodeMCU-style auto-reset and auto-flash circuitry.
 2. Manual: Dedicated RESET and FLASH buttons.
- **Status Indicators:**
 1. Green: PWR LED.
 2. Yellow: TX/RX activity LEDs.
- **Grounding:** Chassis ground isolated from circuit ground.

ESP-01 Programmer/Adapter Overview



Mechanical Dimensions



For the latest product updates and documentation, visit: www.fares-pcb.com
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FARESPCB reserves the right to make changes to circuit designs, software, or specifications at any time without prior notice. Information furnished by **FARES**PCB is believed to be accurate and reliable; however, no responsibility is assumed for its use.

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