

DataLogger IoT - 9DoF

DEV-20594

Product Overview

07-03-2024

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

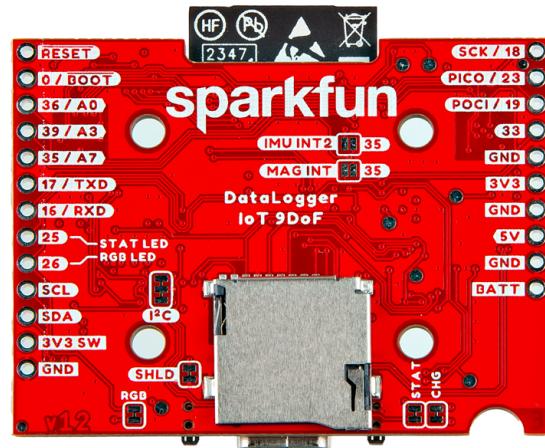
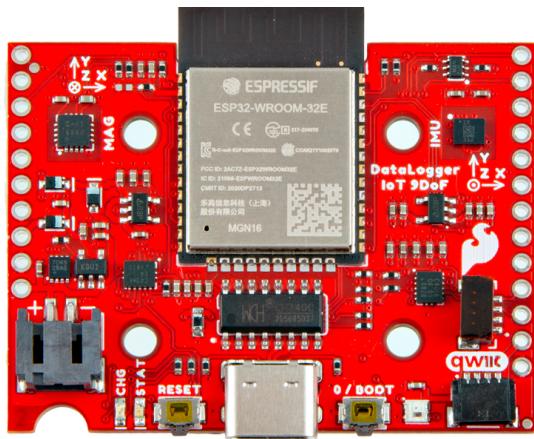
SparkFun DataLogger IoT - 9DoF allows for seamless data logging without the hassle of coding. This DataLogger IoT - 9DoF incorporates preprogrammed functionalities like log IMU, GPS, and various pressure, humidity, and distance sensors. The DataLogger automatically detects, configures and logs Qwiic sensors, and captures a lot of data to a CSV or JavaScript Object Notation (JSON) file. The DataLogger IoT is highly configurable over an easy-to-use serial interface. With its user-friendly serial interface, the DataLogger IoT offers extensive configurability. This DataLogger IoT - 9DoF uses common microSD cards to record clear text, comma-separated, or JavaScript Object Notation (JSON) files. The DataLogger supports 4-bit SDIO with microSD cards formatted as FAT32 and is compatible with the older FAT16 formats up to 32GB.



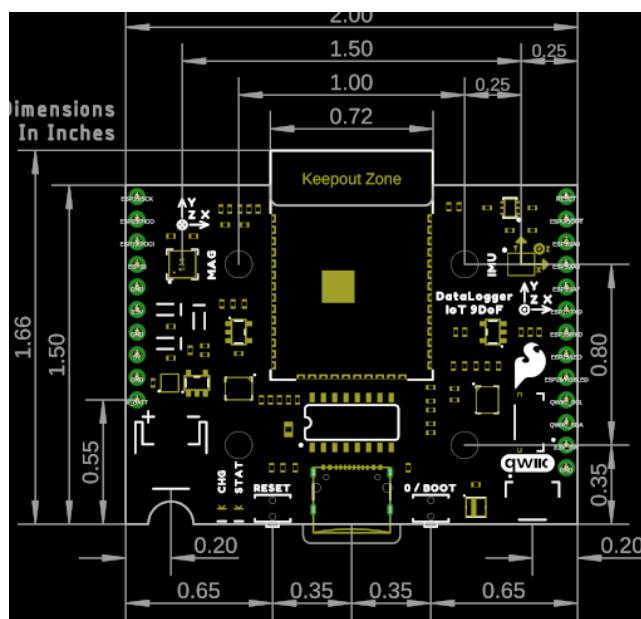
Features

- ESP32-WROOM-32E Module:**
 - Integrated 802.11b/g/n WiFi 2.4GHz transceiver
 - Configurable via CH340C
- Operating voltage range:**
 - 3.3V to 6.0V (via VIN)
 - 5V with USB (via 5V or USB type C™)
 - 3.6V to 4.2V with LiPo battery (via BATT or 2-pin JST)
 - Built-in MCP73831 single-cell LiPo charger
 - Minimum 500mA charge rate
 - 3.3V (via 3V3)
- MAX17048 LiPo fuel gauge
- Ports:**
 - 1x USB Type C
 - 1x JST style connector for LiPo battery
 - 2x Qwiic enabled I²C
 - Support for 4-bit SDIO and microSD cards
 - 10.7g weight
- 9-axis IMU:**
 - Accelerometer and Gyro (ISM330DHCX)
 - Magnetometer (MMC5983MA)
- LEDs:**
 - Charge (CHG)
 - Status (STAT)
 - WS2812-2020 Addressable RGB
- Jumpers:**
 - IMU interrupt
 - Magnetometer interrupt
 - RGB LED
 - Status LED
 - Charge LED
 - I²C pull-up resistors
 - USB Shield
- Buttons**
 - Reset
 - Boot
 - 1.66" x 2.00" Dimensions

Board Overview



Board Dimension



Additional Resource

- [Schematic Representation](#)

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-datalogger-iot-9dof/>