Joystick HAT



Description

Joystick HAT is one of the HAT module that is specifically designed for M5StickC. We have used a STM32F030F4 microprocessor inside to implement I2C communication with M5StickC. This minivolume joystick module supports full angular movement and center press, and outputs angular data as well as button digital signals. With the "HAT" unified plug-in design it can provide reliable connection, in the most streamlined way, which allowes to get more HMI experience.

Product Features

STM32F030F4 inside communication protocol: I2C (address: 0x38) support omni-directional movement/button press Dimension: 24mm x 30mm x 17mm Weight: 3g

Package Includes

1x Toyetick HAT

Applications

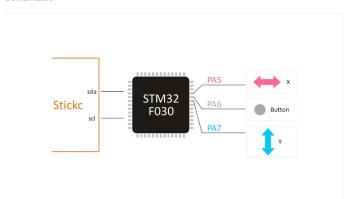
Game Handle Wireless Joystick Device

Communication protocol



Joystick calibration method. First I2c writes register 0x03 and then sends 0x02, the joystick is rotated several times around the top, bottom, left and right, and then 0x03 is saved in register 0x03.

Schematic



EasyLoader

click to download EasyLoad

1.EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed. (Currently EasyLoader is only available for Windows OS)

After downloading the software, double -click to run the application, connect the M5 device to the computer through the data cable, select the port parameters, click "Burn" to start burning. (For M5StickC burning, please Set the band rate to 750000 or 115200)

Example

UIFlow



Arduino

To get complete code, please click here

Pin Map

 M5StickC
 GPIO0
 GPIO26
 3.3V
 GND

 Joystick HAT
 SDA
 SCL
 3.3V
 GND