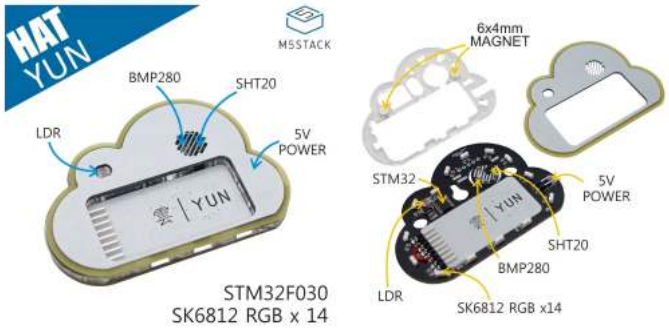
YUN HAT



Description

YUN HAT is a cloud-shaped multi-function environment information measurement base. Built-in temperature and humidity sensor **SHT20**, air pressure sensor **BMP280**, photoresistor,14 RGB LEDs. The board is build with Embedded Microprocesser ** STM32F030F4** , which implenmented a consice and efficient program APIs.*
YUN HAT features a pretty appearance which could be used as a decration for your space.
The base is designed for the M5StickC, like other HAT devices, it is compatible with top socket of M5StickC. The overall structure adopts a three-layer design, and the upper and lower PCB boards serve as fixed structure and main circuit respectively, which is beneficial to the circuit conduct long hours of work.
the board also provides an independent external power interface.
The middle layer is a light-guided acrylic component. To achieve a better light display effect, The acrylic outer contour cutting surface is partially polished, and the purpose is to effectively reduce the scattering of light, making it evenly saturated with light effects.
*One hook hole and two 6*4mm magnet mounting positions are reserved on the board, so users can easily magnet or hang in any corner of space.

Product Features

- Compatible with M5StickC
- On-board Microprocessor **STM32F030F4**
- Temperature and Humidity sensor **SHT20**
- Air pressure sensor **BMP280**
- Photoresistance
- 14 x SK6812 4020 RGBLED
- Three-layer structure design:
  - 1 x hook hole
  - 2 x 6*4mm magnet mounting position
  - 1 x finishing Acrylic profile surface
- Development platform: Arduino, UIFlow(Blockly,Python)

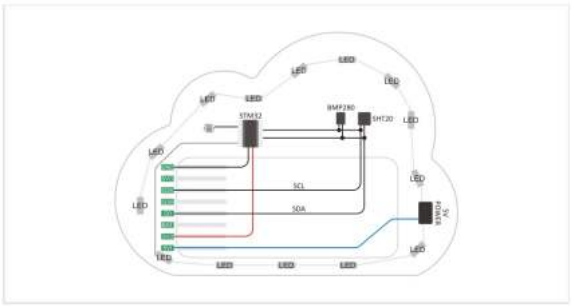
Include

- 1x YUNHAT
- 2x Dupont

Applications

- Environmental information collection
- Smart home decoration
- Fridge Magnet

Schematic



Links

datasheet

- SHT20
- BMP280

EasyLoader

click to download EasyLoader

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 baud rate to 750000 or 115200**)

Example

UIFlow

Open http://flow.m5stack.com and Load Demo

Arduino

To get complete code, please click here

Pin Map

M5StickC	GND	5V OUT	GPIO26	GPIO0	GPIO36	BAT	3V3	5V IN
YUN HAT	GND	+5V	SCL	SDA	/	BAT	+3.3V	+5V IN