Stamp-AddOn C6 For P4

SKU:A172





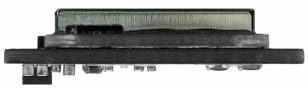




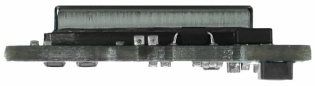
















Description

Stamp-AddOn C6 For P4 is a Wi-Fi expansion module based on the ESP32-C6-MINI-1-N4, specifically designed to extend the wireless communication capabilities of the ESP32-P4 series modules, supporting 2.4GHz Wi-Fi 6. The module communicates at high speed with Stamp-P4 via the onboard SDIO interface, quickly expanding high-performance wireless connectivity. It is suitable for scenarios such as smart security gateways, industrial HMI interactive terminals, and complex edge AI nodes, helping developers efficiently build embedded products with full connectivity capabilities.

Features

- ESP32-C6-MINI-1-N4 core controller
  - 4MB Flash
  - 2.4GHz Wi-Fi 6
- 0.4mm@20P SDIO onboard interface, adapted for Stamp-P4
- Development Platform
  - UiFlow2
  - Arduino IDE

Includes

- 1 x Stamp-AddOn C6 For P4
- 1 x M1.2 * 3mm cap head machine screw
- 1 x Hex Key L-Shape 0.9mm (For M1.2 Screw)

Applications

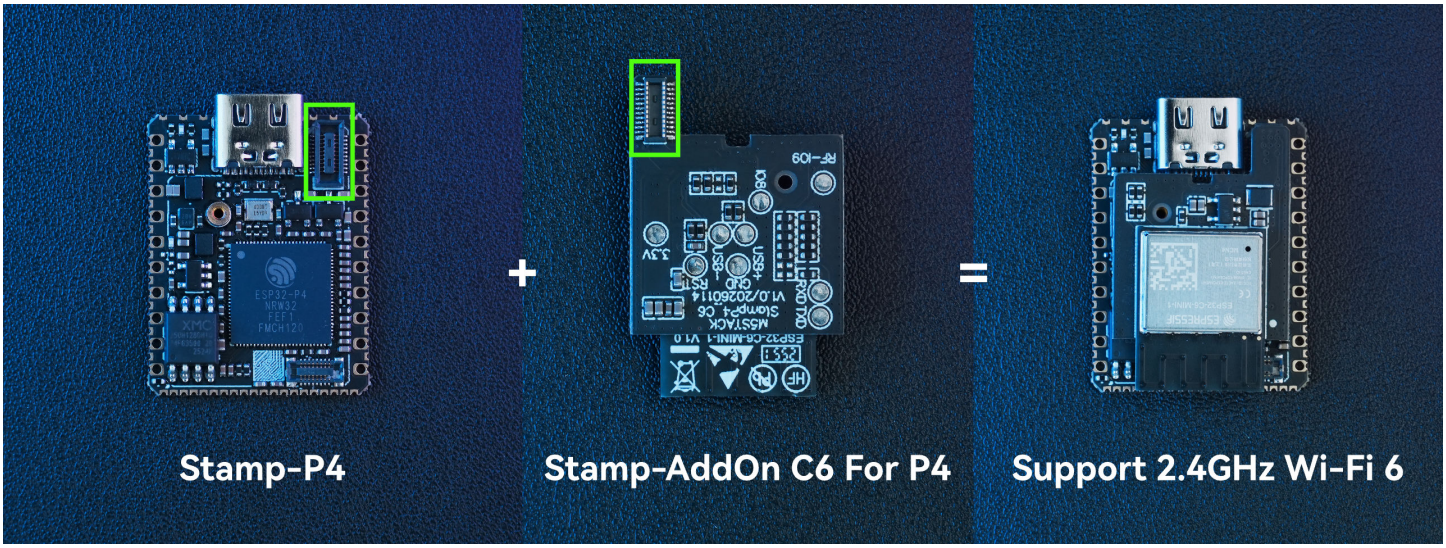
- Smart security gateway
- Industrial HMI interactive terminal
- Complex edge AI node

Specifications

Specification	Parameter
SoC	ESP32-C6FH4 (RISC-V 32-bit single-core processor 160 MHz + RISC-V 32-bit single-core low-power co-processor 20 MHz)
Flash	4MB
DC-DC	SY8089AAAC
Input Voltage	DC 5V
Module Resource Interface	SDIO
SDIO Interface Specification	HC-PBB40C-20DP-0.4V-02
Adapted Device	Stamp-P4
Wireless Protocol	2.4GHz Wi-Fi 6
Operating Temperature	0 ~ 40°C
Product Size	27.0 x 18.0 x 4.0mm
Product Weight	1.6g
Package Size	138.0 x 93.0 x 6.0mm
Gross Weight	5.7g

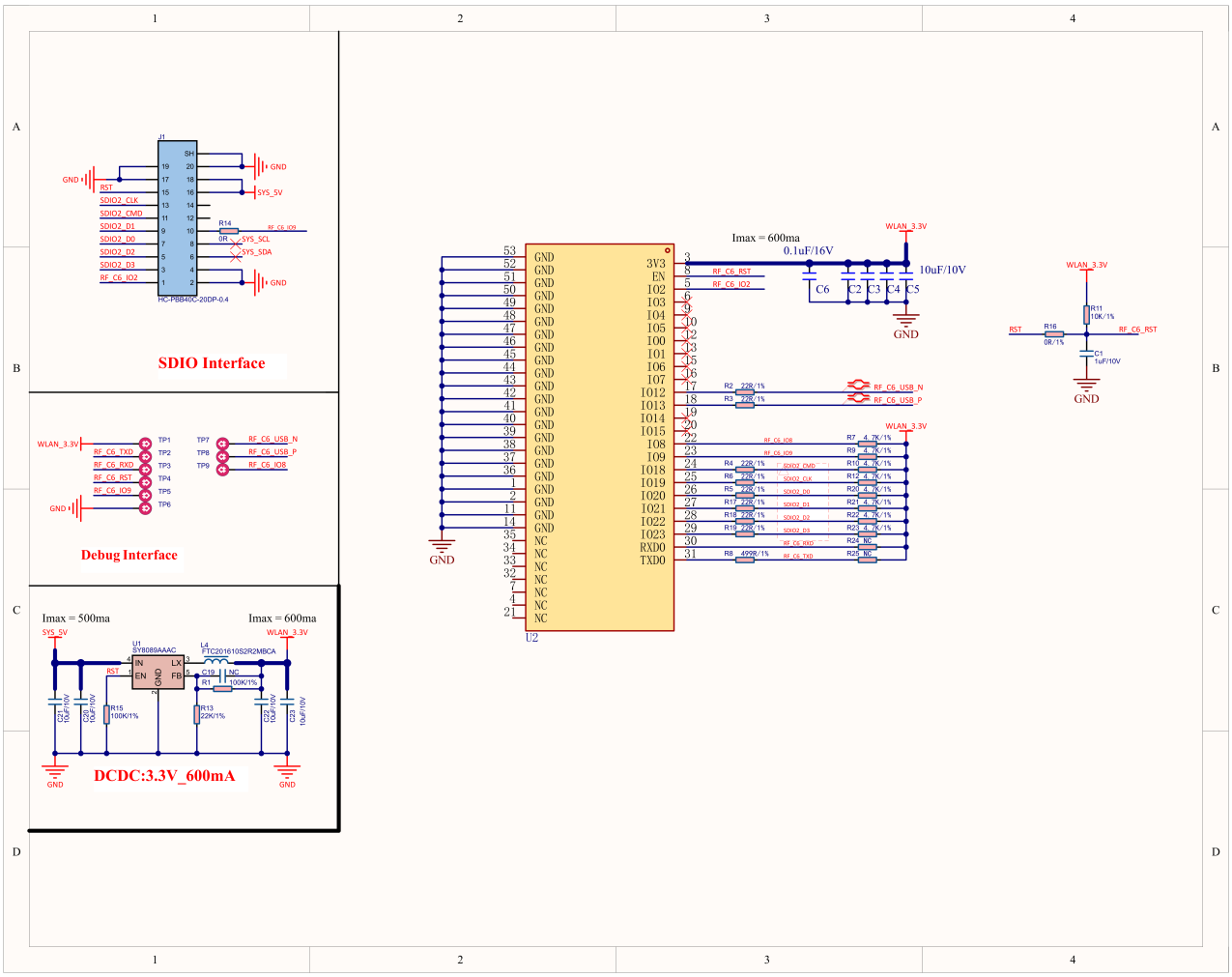
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Installation Diagram

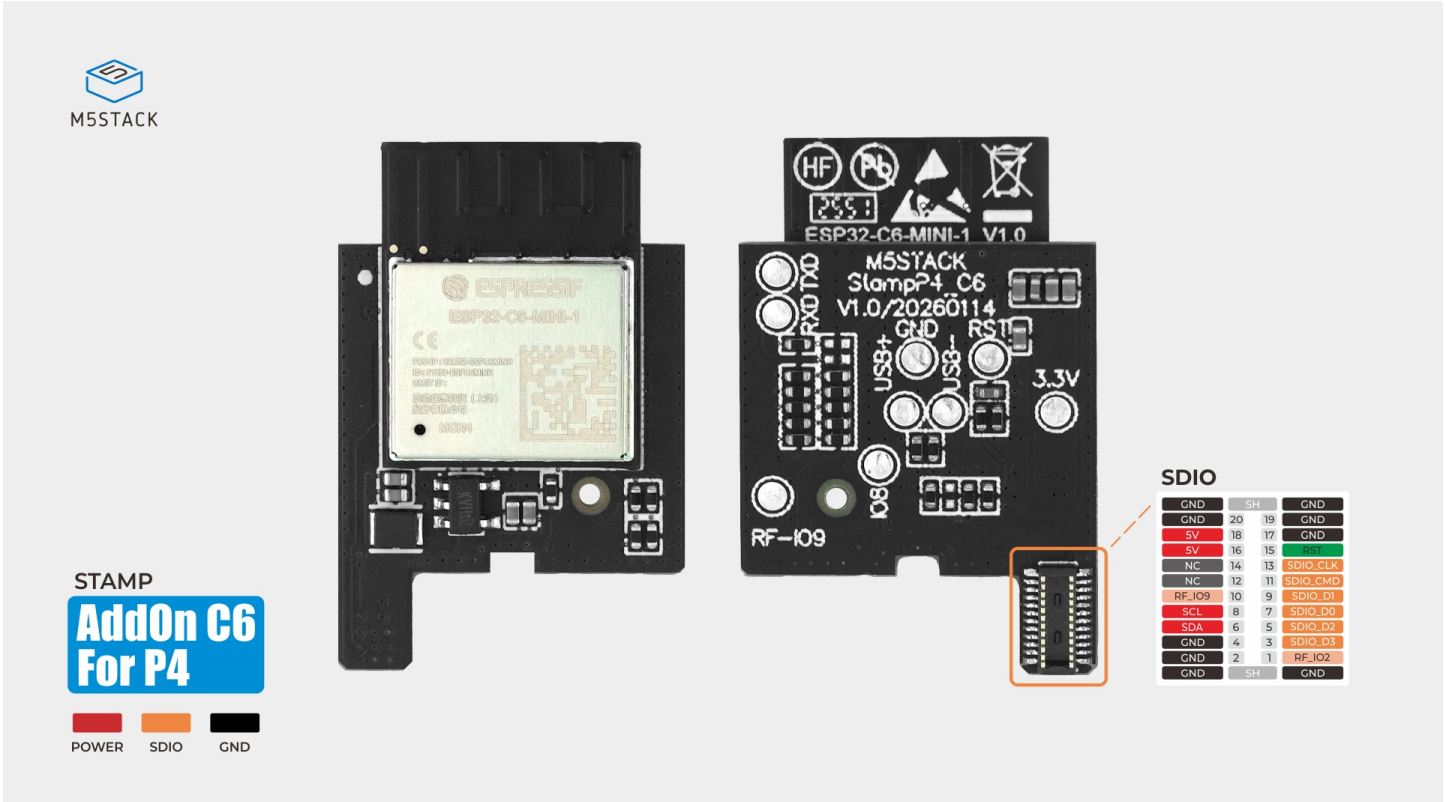


Schematics

- Stamp-AddOn C6 For P4 Schematics PDF

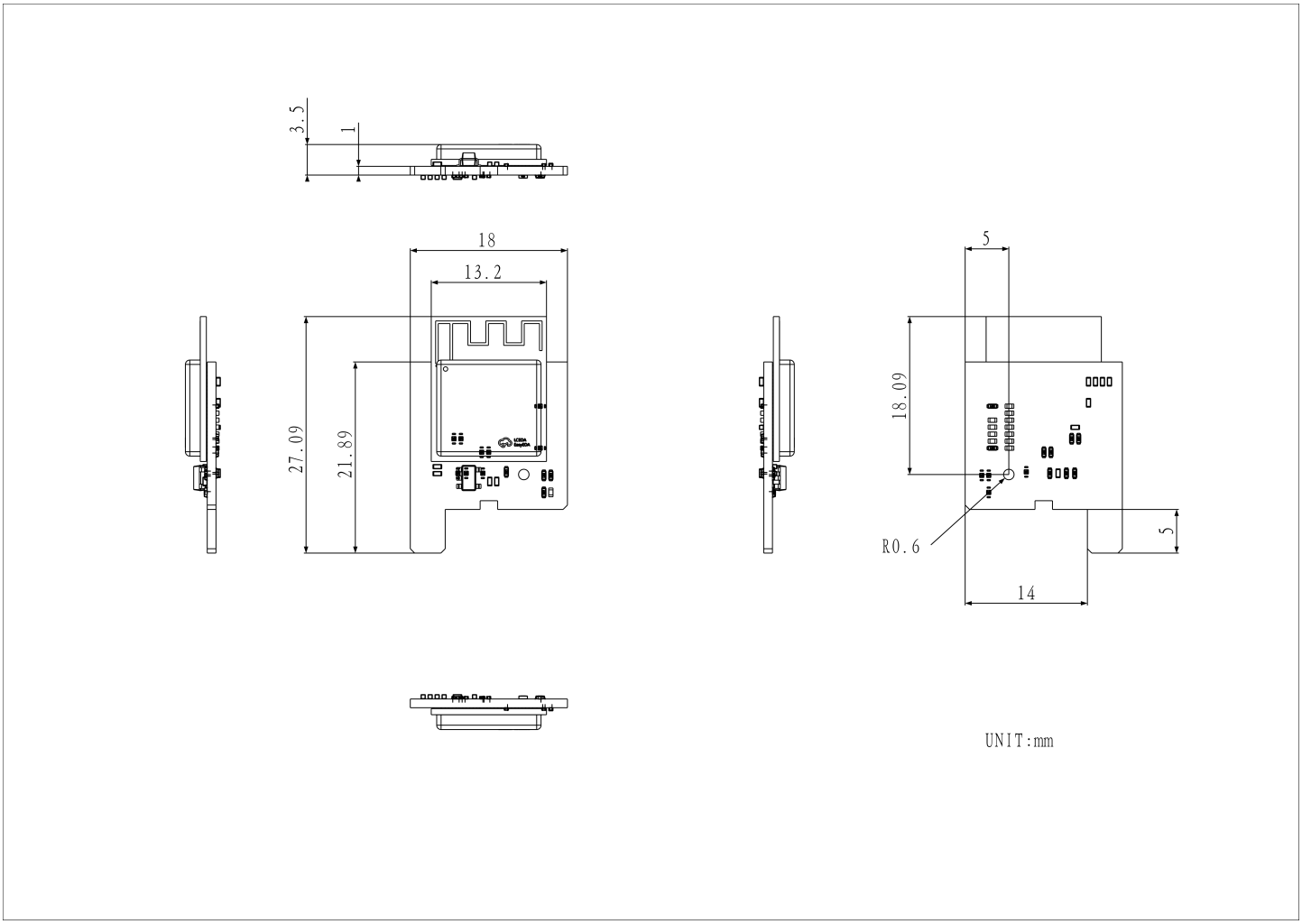

SDIO Interface
Debug Interface
Imax = 500ma
Imax = 600ma
DCDC:3.3V_600mA
Imax = 600ma
0.1uF/16V
10uF/10V
GND
WLAN_3.3V

PinMap


M5STACK
STAMP
AddOn C6
For P4
POWER
SDIO
GND
ESP32-C6-MINI-1 V1.0
M5STACK
StampP4-C6
V1.0/20260114
RF-109
SDIO
GND
5V
NC
RF_IO9
SCL
SDA
3.3V
RST
SDIO_CLK
SDIO_CMD
SDIO_D1
SDIO_D0
SDIO_D2
SDIO_D3
RF_IO2

Model Size

Stamp-AddOn C6 For P4 Model Size PDF



Datasheets

- ESP32-C6

Softwares

Arduino

- Stamp-AddOn C6 For P4 Arduino Wi-Fi Example

Video

- Stamp-P4 and Stamp-AddOn C6 For P4 Product Introduction and Functional Demonstration

A172_and_S013_introduce_video_EN.mp4