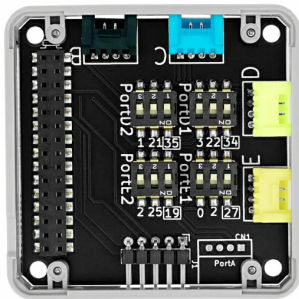
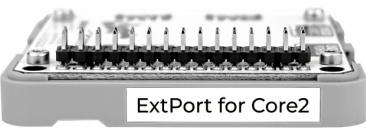
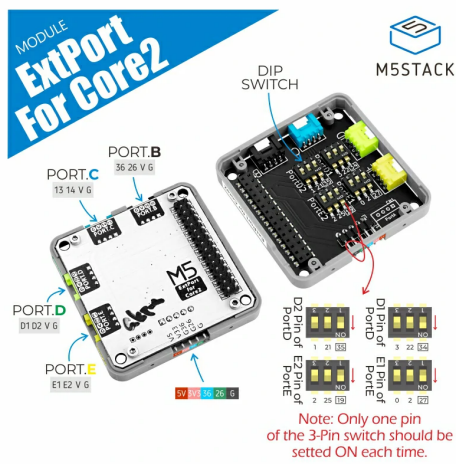


Module ExtPort For Core2

SKU:M123



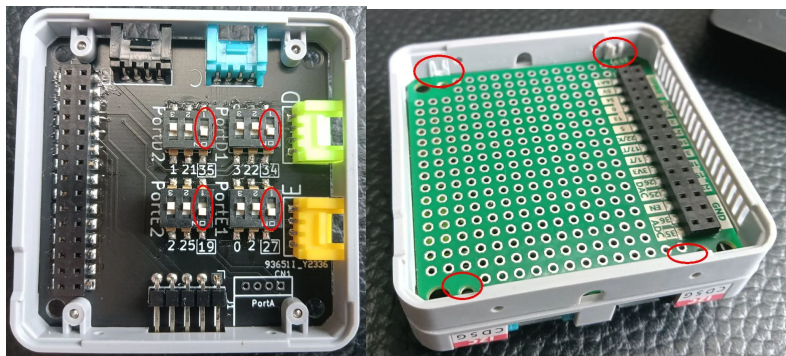
Description

Module ExtPort For Core2 is a stacking expansion module specifically designed for the **M5Stack Core2** to interface with **Grove connectors**. It provides **PORT.B/PORT.C/PORT.D/PORT.E** 4 Grove interfaces, where **PORT.D/PORT.E** can be configured with different GPIOs via internal DIP switches.

Note

Note:

1. The front of **ExtPort For Core2** features a collaborator's signature.
2. Before use, ensure that the corresponding DIP switches are set to **ON**. The "1" position of all DIP switches is set to ON by default. Remember that only one position in each DIP switch should be set to ON; if multiple positions are set to ON, the device may be damaged.
3. If you need to use the Core2's bottom cover, you must cut off the four support legs of the PROTO module (as shown below) to avoid interference with the cover and prepare M3 screws of appropriate length for fixation.



Features

- 4 x Grove interfaces (PortB/C/D/E)
- 4 x 3-position DIP switches (PortD/E)
- 1 x 5Pin@2.54mm pin header

Includes

- 1 x Module ExtPort For Core2

Applications

- Multi-sensor, multi-actuator expansion
- DIY projects

Specifications

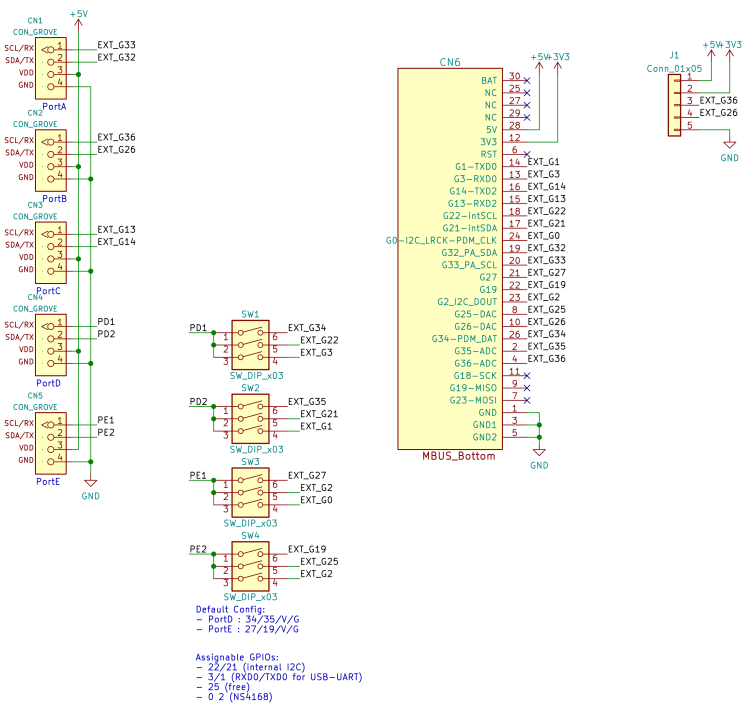
Specification	Parameter
Expansion Port	PortB, PortC, PortD, PortE
Product Size	54.0 x 54.0 x 13.0mm
Product Weight	24.0g
Package Size	132.0 x 95.0 x 16.0mm
Gross Weight	58.0g

Schematics

Designed by @akita



- Module ExtPort For Core2 Schematics PDF



PinMap

HY2.0-4P

Pins marked with * are default pins.

HY2.0-4P	Black	Red	Yellow	White
PORT.B	GND	5V	G26	G36
PORT.C	GND	5V	G14	G13
PORT.D	GND	5V	G35*	G34*
PORT.E	GND	5V	G19*	G27*

Note: The pin assignments for PortD/E can be configured via each 3p switch to one of the following:

- PortD-1 (White wire) : 34(default) / 22(internal I2C-SCL) / 3 (RXD0)
- PortD-2 (Yellow wire) : 35(default) / 21(internal I2C-SDA) / 1 (TXD0)
- PortE-1 (White wire) : 27(default) / 2 (NS4168-DATA) / 0 (NS4168-LRCK)
- PortE-2 (Yellow wire) : 19(default) / 25 / 2 (NS4168-DATA)



M5-Bus

Switch

The pins marked **SW** on the M5-Bus below can be switched via DIP switches to adapt to different main controllers.

PIN	LEFT	RIGHT	PIN
GND	1	2	PORT.D (SW)
GND	3	4	PORT.B
GND	5	6	
	7	8	PORT.E (SW)
	9	10	PORT.B
	11	12	3V3
PORT.D (SW)	13	14	PORT.D (SW)
	15	16	
PORT.D (SW)	17	18	PORT.D (SW)
PORT.A	19	20	PORT.A
PORT.E (SW)	21	22	PORT.E (SW)
PORT.E (SW)	23	24	PORT.E (SW)
	25	26	PORT.D (SW)
	27	28	5V
	29	30	

2.54-5P Pin Header

