



PaHUB2

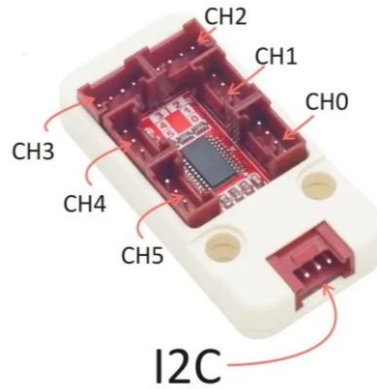
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Description

PaHUB2, is an I2C Expandable Hub, which can expand a single I2C HY2.0-4P interface and connects up to 6 I2C channels. It allows you to mount slave devices with the same I2C address (by polling control the different channels to achieve in-device coexistence). Embedded PCA9548AP-I2C multi-channel switch IC, Save you worries with insufficient I2C interface of the expansion.

Note: When it's connected, the PaHUB2 will be polling control the different channels to achieve in-device coexistence. Please pay attention to the order of channels when programming.

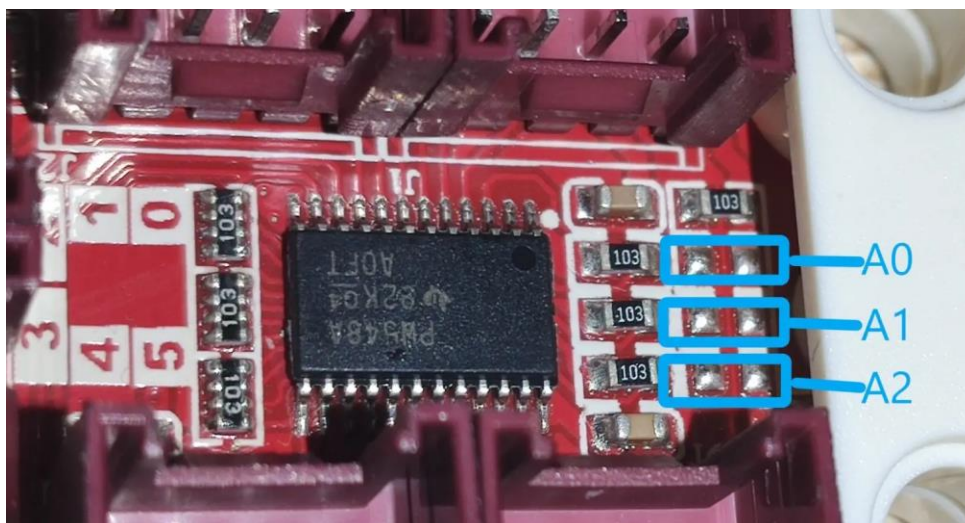


Product Features

- I2C HY2.0-4P PORTA expansion
- 2x LEGO compatible holes
- Support multiple nesting
- 1-6 expansion

Please refer to the schematic and PCA9548AP data manual, the Unit can modify the I2C address of the device by adapting the level combination of A0~A2 pins. (The default address is 0x70)

3 Position of Welding patch are reserved on the PCB board of the Unit, A0-A2 respectively, as shown in the figure below.



After welding the 0 ohm resistor, the corresponding pin will change from low level to high level. The pin level combination and its corresponding I2C address are shown in the table below.

INPUTS			I ² C BUS SLAVE ADDRESS
A2	A1	A0	
L	L	L	112 (decimal), 70 (hexadecimal)
L	L	H	113 (decimal), 71 (hexadecimal)
L	H	L	114 (decimal), 72 (hexadecimal)
L	H	H	115 (decimal), 73 (hexadecimal)
H	L	L	116 (decimal), 74 (hexadecimal)
H	L	H	117 (decimal), 75 (hexadecimal)
H	H	L	118 (decimal), 76 (hexadecimal)
H	H	H	119 (decimal), 77 (hexadecimal)

Include

- 1x Pahub2 Unit
- 1x HY2.0-4P Cable

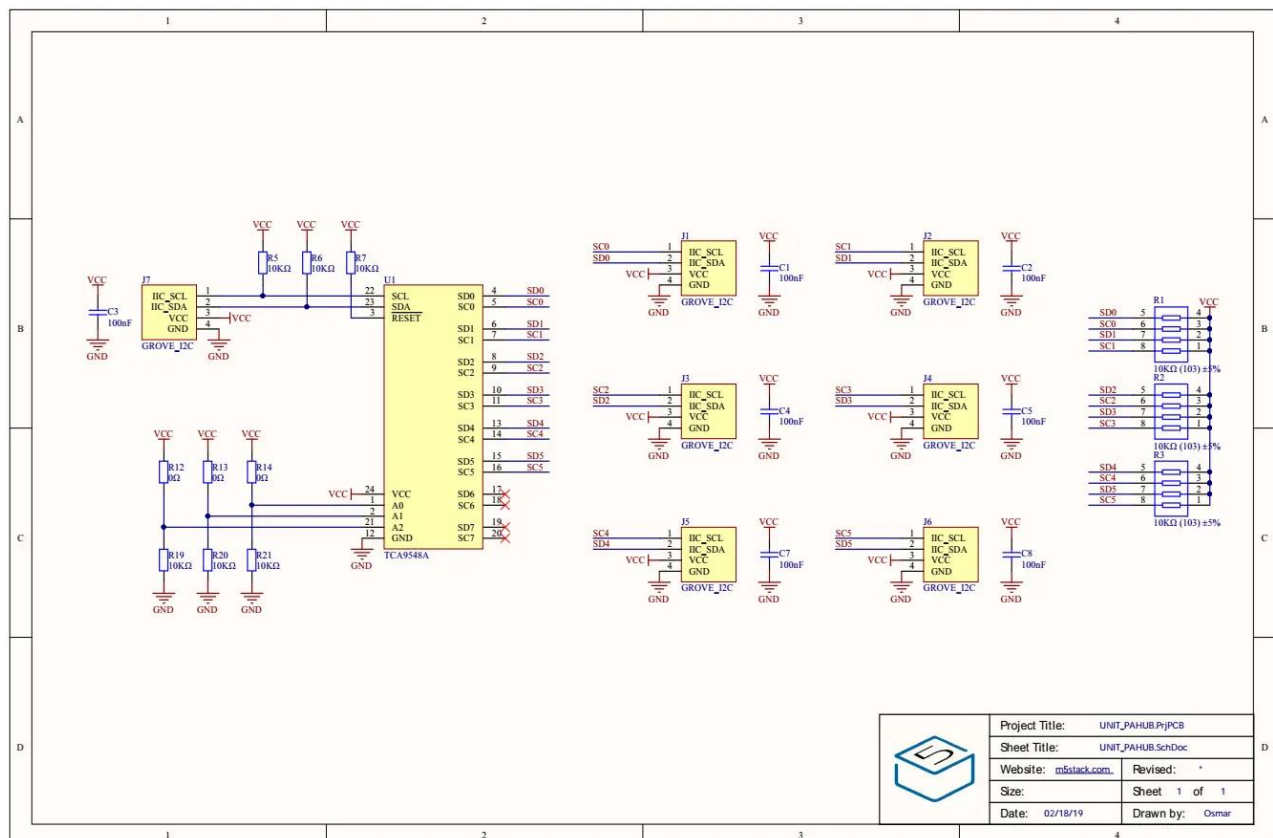
Application

- I2C device expansion

Specification

Specifications	Parameters
Channel Control IC	PCA9548AP
Communication protocol	I2C: 0x70 (can be modified by resistance A0, A1, A2)
Net weight	7g
Gross weight	19g
Product size	48 * 24 * 12mm
Packing size	67 * 53 * 12mm

Schematic



Related Link

- **Datasheet**
 - [PCA9548AP](#)

EasyLoader

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1.EasyLoader is a concise and fast program burner, which contains the test program used by Pahub2 & M5Core.