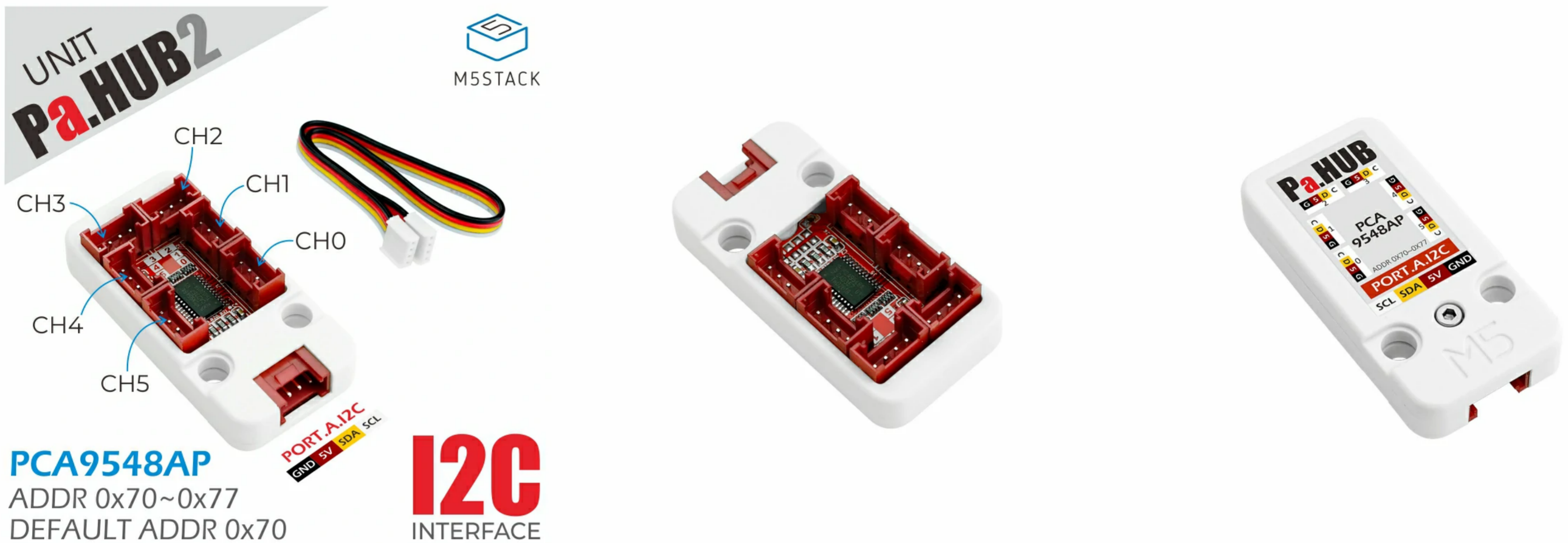


PaHUB2

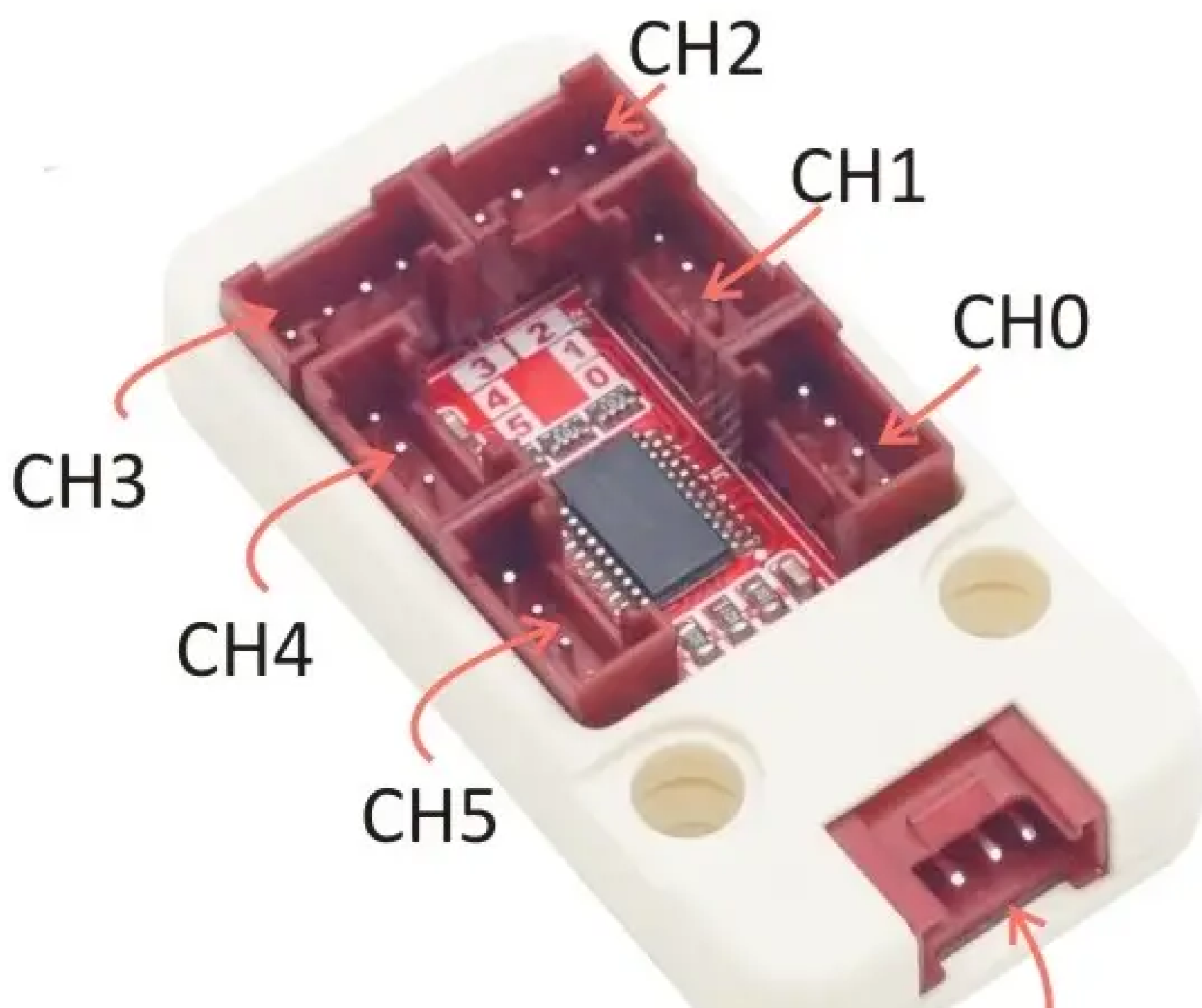
SKU:U040-B



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.



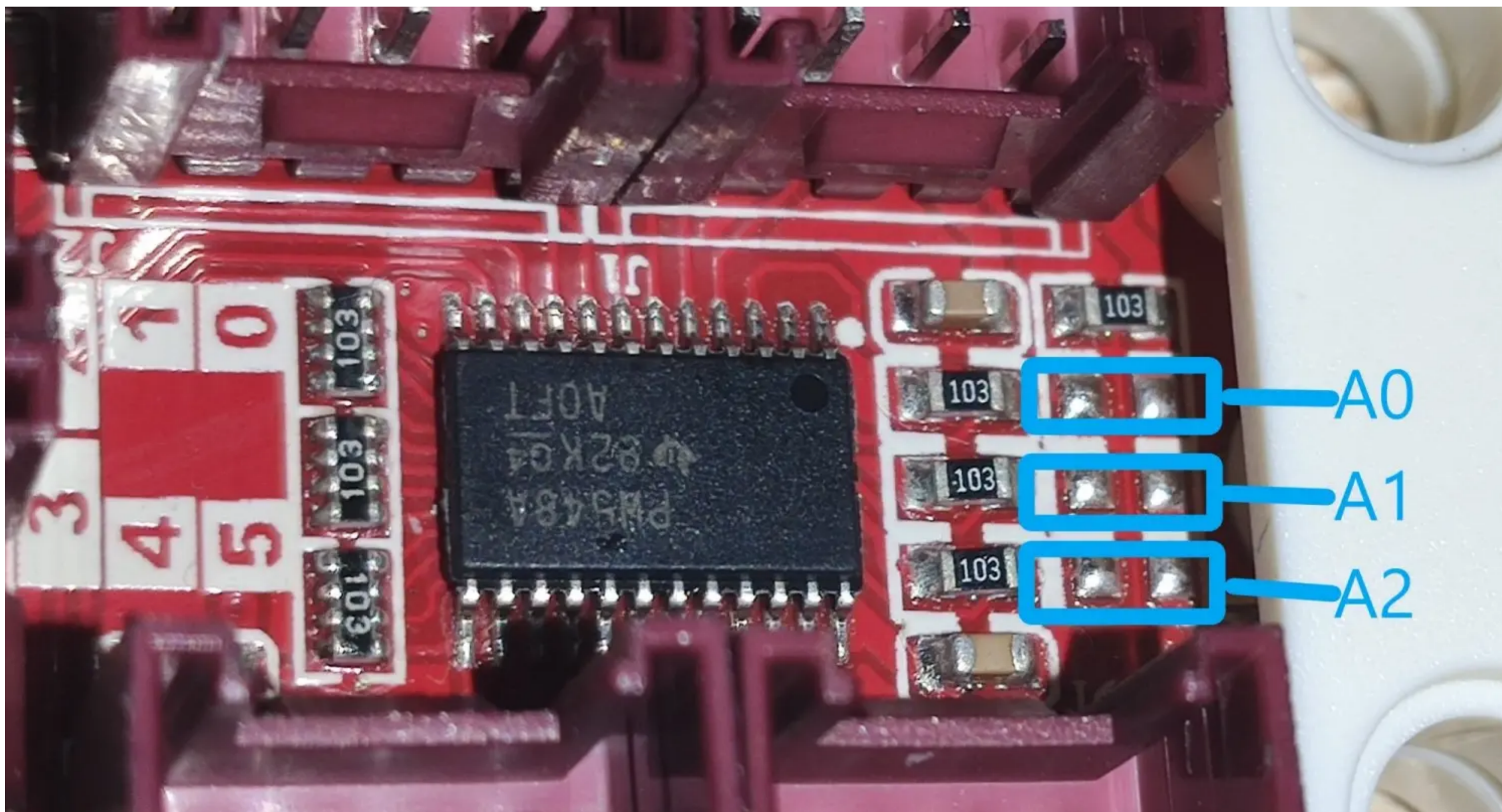
I2C

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 Pahun2 Unit
- 1x HY2.0-4P Cable

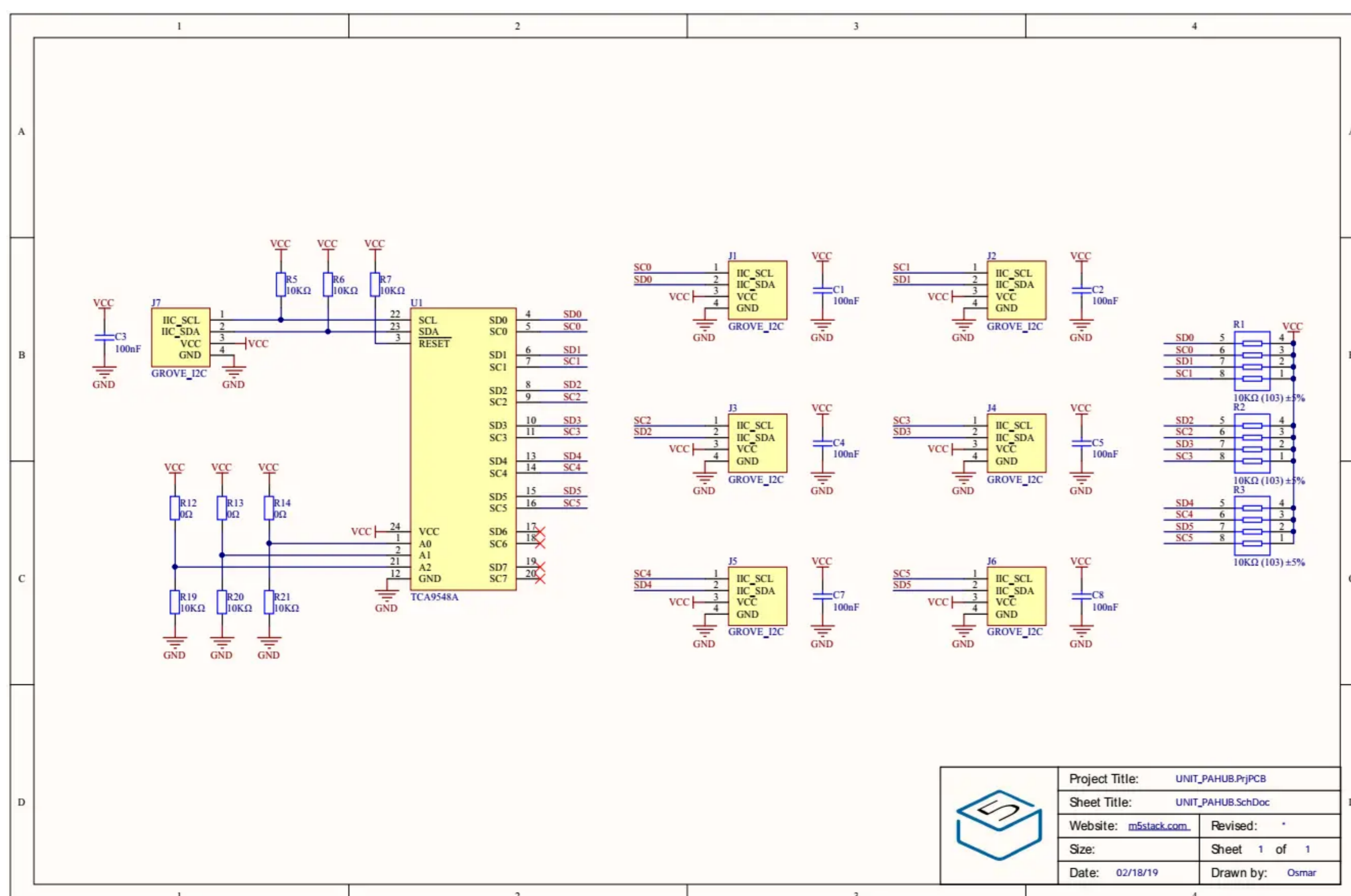
Application

- 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

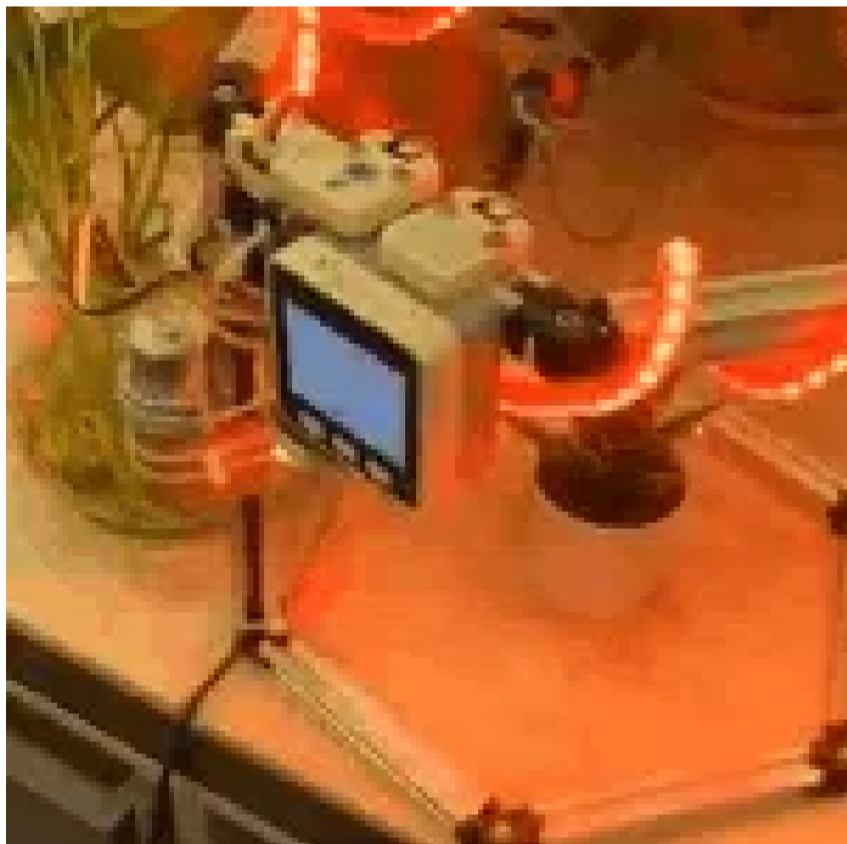
- Datasheet
 - [PCA9548AP](#)

EasyLoader

[Click to download EasyLoader](#)

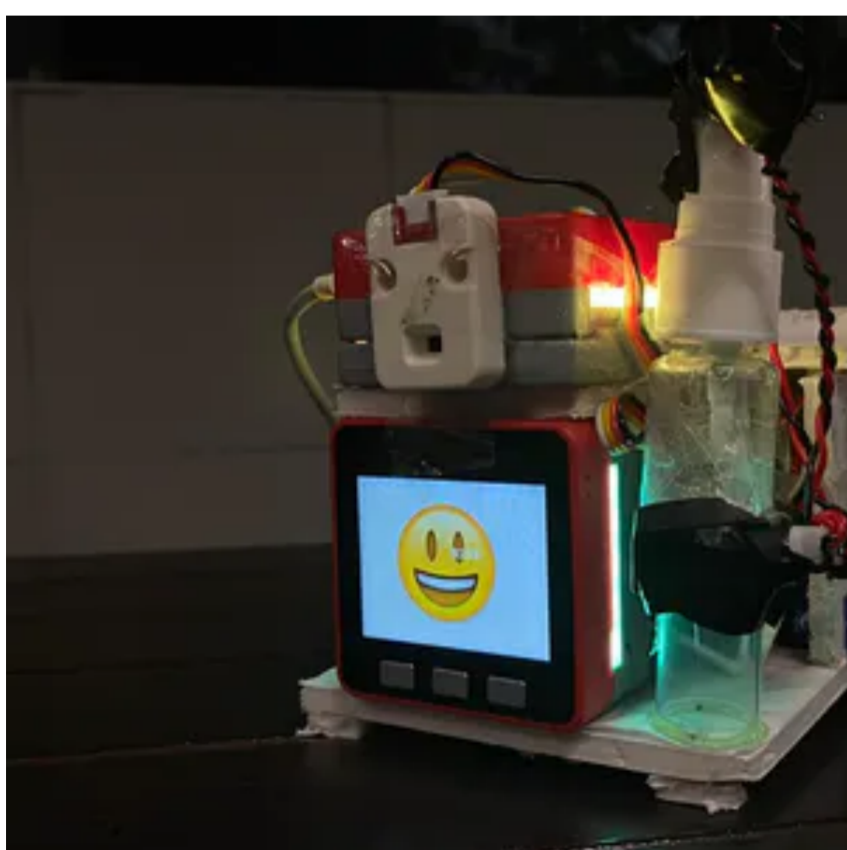
1. EasyLoader is a concise and fast program burner, which contains the test program used by Pahub2 & M5Core.

Learn



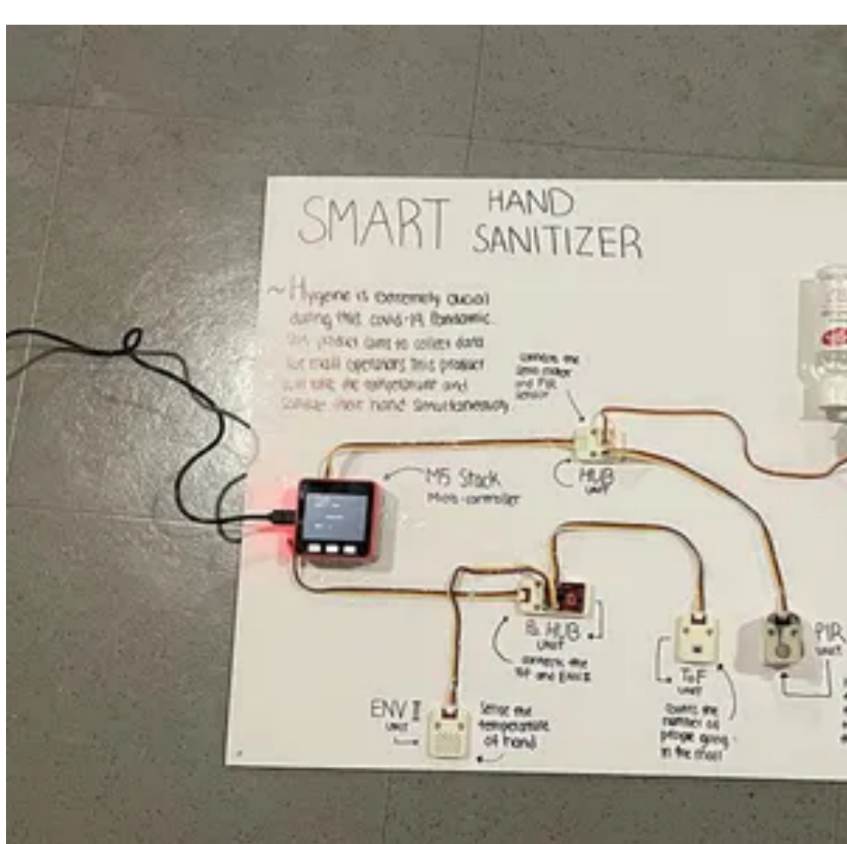
Smart Planting System

Building a smart planting system using M5Stack to monitor the lights, humidity, temperature, watering your plant automatically.



Q-Bot

We aim to build a robot that is effective in sanitizing surfaces without putting cleaners in harm's way.



3 in 1 Sanitiser Dispenser

We have devised with an innovation that dispenses hand sanitiser, measures the temperature of user, shows the count of people in vicinity.

Hand Hygienics

Hand Hygienics aims to reduce spread of Covid-19 through contact.



SEAM [Safe-Entry Access Machine]

An automatic system to perform the tasks of Safe Entry. It consist an adjustable Thermometer, RFID / QR Code Check in and Counting.

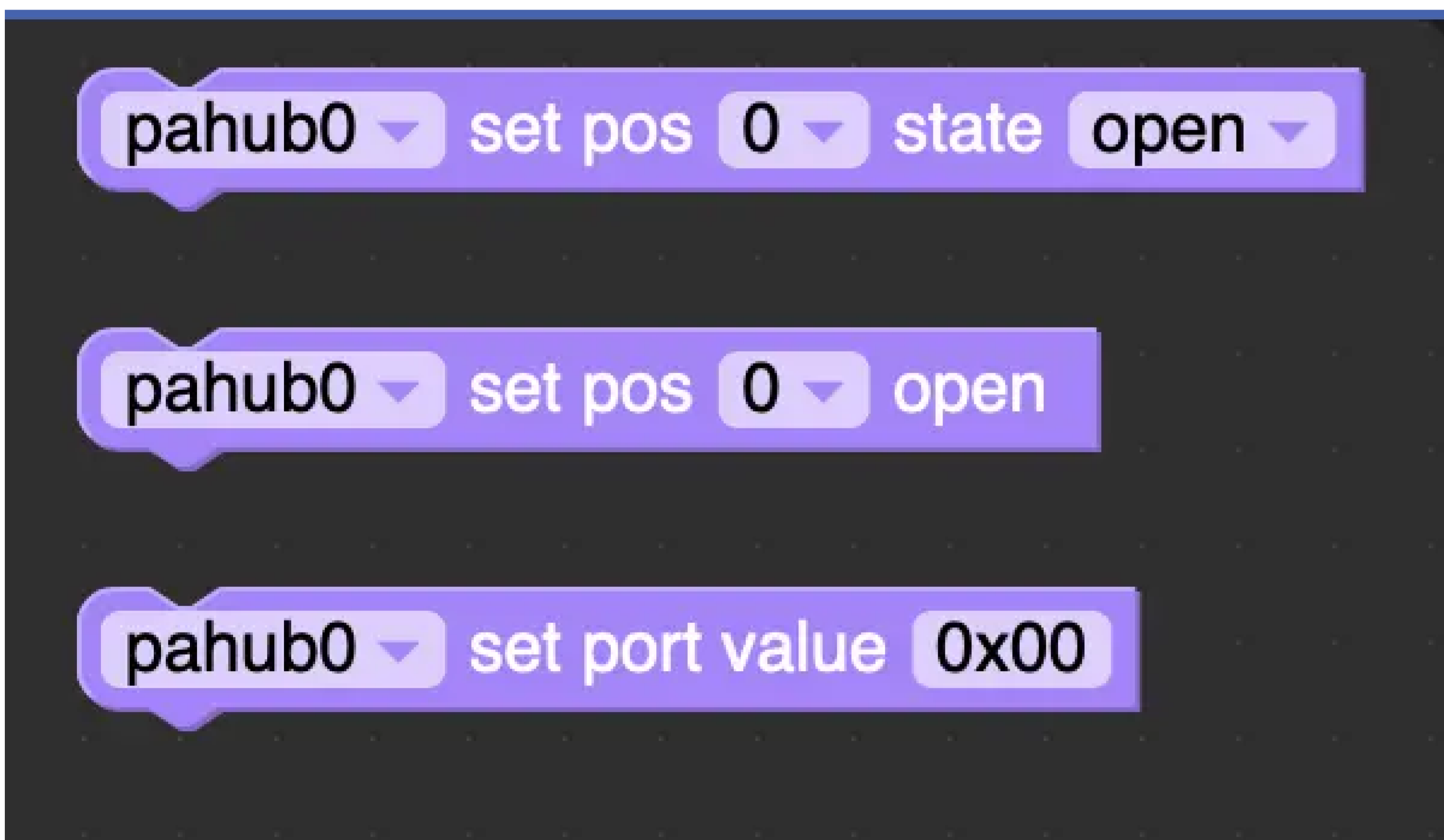
Example

Arduino

- [Arduino Test example](#)

UIFlow

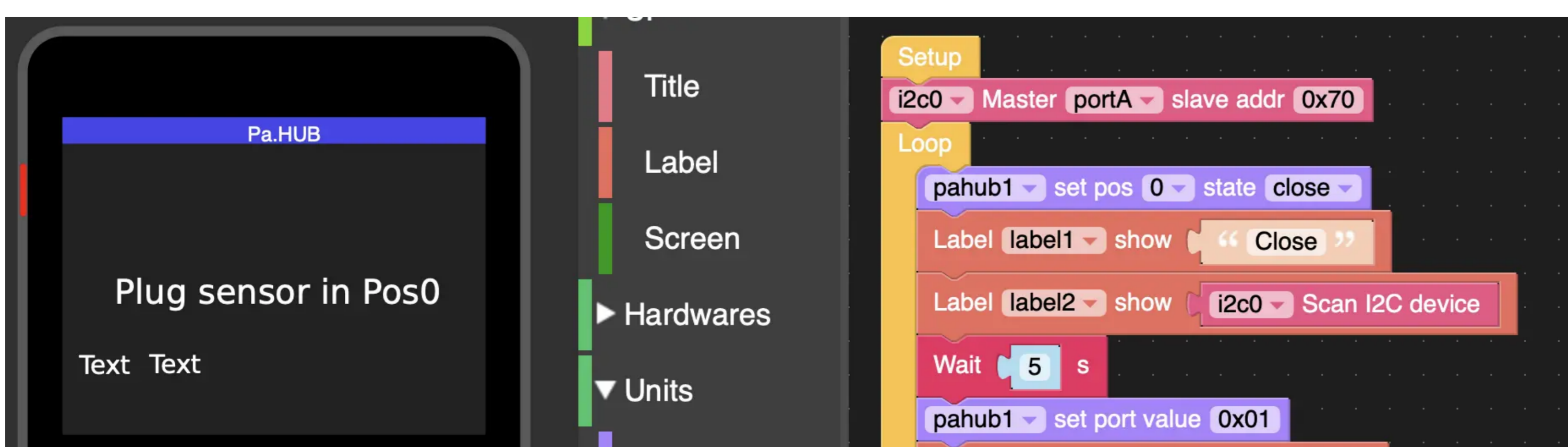
Feature Introduction



- **set pos state** Set designated port I2C
- **set pos open** Set the port to enable I2C
- **set port value** Set up port I2C

Usage

- [UIFlow example](#)



PA_HUB

Modules

FACES

Units

Pa_HUB +

Variables

Math

Loops

Label label1 show " Open "

Label label2 show i2c0 Scan I2C device

Wait 5 s