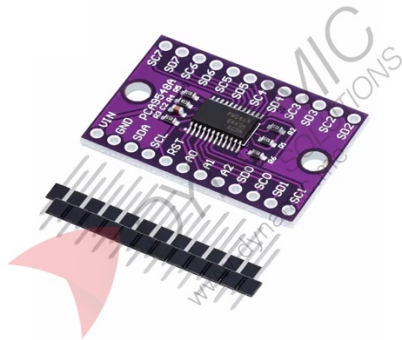


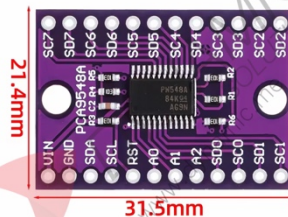
TCA9548A I2C Multiplexer Module 8 Channel



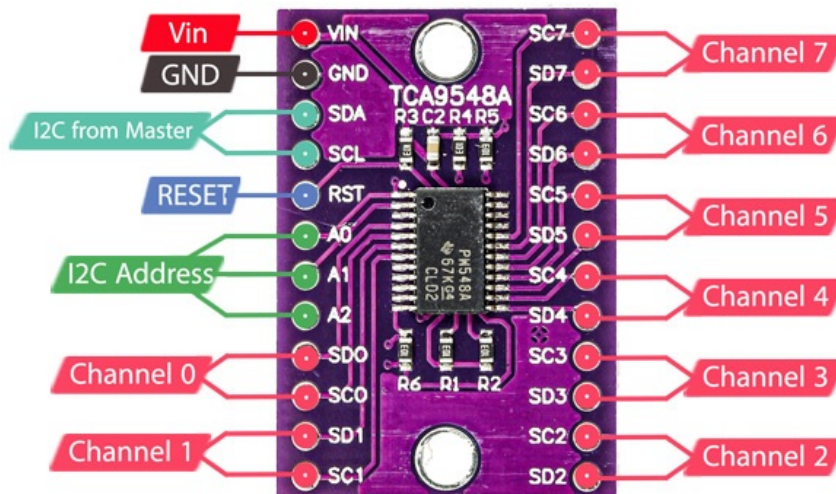
Features:

The TCA9548A I2C Multiplexer Module uses the 24-pin TCA9548A or PCA9548A 8-channel I2C multiplexer, supporting bus speeds up to 400kHz and level translation between 2.5V, 3.3V and 5V buses. The two parts differ only in minimum supply, 1.8V for the TCA and 2.3V for the PCA. The master default address is 0x70, with A0-A2 normally LOW allowing 0x70 through 0x77 when pulled HIGH, so up to 8 modules can share one bus and control up to 64 slave buses. Master I2C lines carry 10K pull-ups on the module; the eight slave interfaces SD0/SC0 through SD7/SC7 do not, so add 4.7K to 10K on any in use where the connected device lacks them.

Specifications	
Chip	PCA9548A / TCA9548A, 24-pin
Interface	I2C / IIC
Channels	8 bi-directional I2C switches
Default Master Address	0x70
Selectable Address Range	0x70 to 0x77
Max Modules Per Bus	8 (up to 64 slave buses)
Working Voltage	1.65 to 5.5V
TCA Minimum Supply	1.8V
PCA Minimum Supply	2.3V
Max Clock Frequency	400kHz
Level Translation	2.5V, 3.3V and 5V
Master I2C Pull-ups	10K ohm included on module
Slave I2C Pull-ups	Not fitted, add 4.7K to 10K ohm if required
RST	Active LOW, pulled HIGH by 10K on module
Headers	Two 12-pin male, 0.7 inch row spacing
Input Tolerance	5V tolerant
Board Size	21.72 x 31.37mm
Mounting Hole Spacing	25.86mm
Compatibility	Arduino, ESP32, Raspberry Pi, STM32
Usage	Sensor-heavy projects, multi-display setups, I2C address expansion, splitting a large bus for loading or isolation



Pinouts:



Name	Description
VIN	Positive pole of power supply, 1.65V to 5.5V
GND	Negative pole of power supply, common with MCU
SDA	Master I2C serial data, to SDA pin of the microcontroller
SCL	Master I2C serial clock, to SCL pin of the microcontroller
RST	Reset, active LOW, pulled HIGH on module
A0, A1, A2	Master I2C address selection, sets address 0x70 to 0x77
SD0/SC0 to SD7/SC7	Slave I2C buses 0 to 7, SDx is the data line and SCx the clock line of each channel

Product Pictures:

