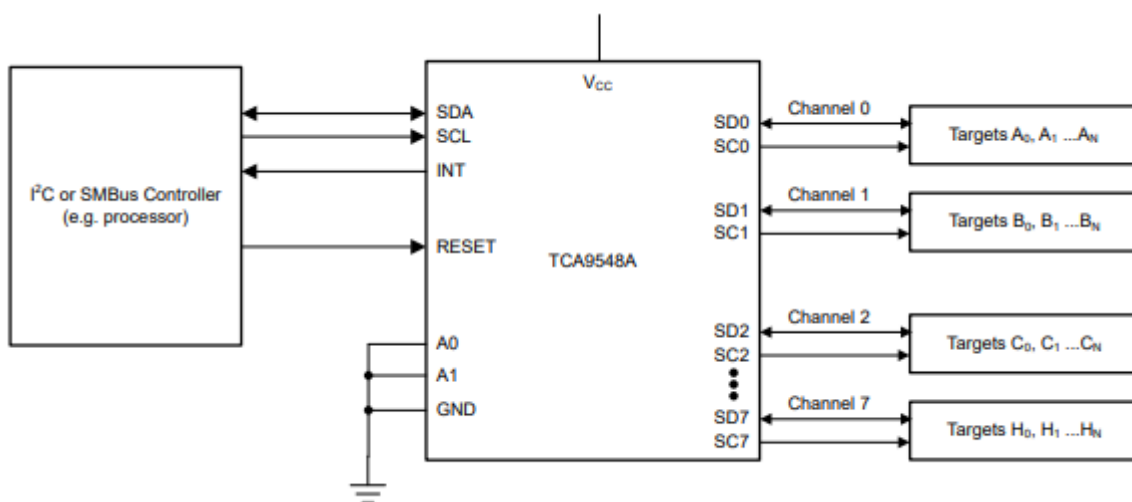
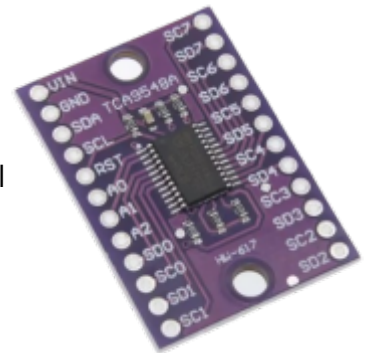


# IamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I<sup>2</sup>C Switch Module

The TCA9548A device features eight bidirectional switches that can be controlled via the I<sup>2</sup>C bus. The upstream SCL/SDA pair connects to eight downstream channels. Any individual channel or combination of channels can be selected by programming the control register. These downstream channels resolve I<sup>2</sup>C target address conflicts. For example, if eight identical digital temperature sensors are required in the application, one sensor can be connected to each channel: 0-7.



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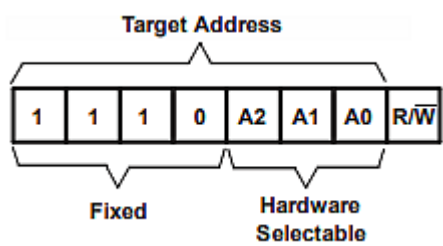
2026/02/14 23:38

## Technical data

- 1-to-8 Bidirectional translating switches
- I<sup>2</sup>C Bus and SMBus compatible
- Active-low reset input
- Three address pins, allowing up to eight TCA9548A devices on the I<sup>2</sup>C bus
- Channel selection through an I<sup>2</sup>C Bus, in any combination
- Power up with all switch channels deselected
- Low RON switches

- Allows voltage-level translation between 1.8V, 2.5V, 3.3V, and 5V buses
- No glitch on power up
- Supports hot insertion
- Low standby current
- Operating power-supply voltage range of **1.65 to 5.5 V**
- 5-V Tolerant inputs
- 0 to 400kHz Clock frequency
- Latch-up performance exceeds 100mA per JESD 78, class II

## Device Address



The last bit of the target address defines the operation (read or write) to be performed. When it is high (1), a read is selected, while a low (0) selects a write operation. Shows the TCA9548A address reference:

Table 7-1. Address Reference

| INPUTS |    |    | I <sup>2</sup> C BUS TARGETADDRESS |
|--------|----|----|------------------------------------|
| 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)    |

## Arduino

To call the module, you only need the “wire” library. The code below scans the module, for example:

```
/**
 * TCA9548 I2CScanner.ino -- I2C bus scanner for Arduino
 *
 * Based on https://playground.arduino.cc/Main/I2cScanner/
 */

#include "Wire.h"

#define TCAADDR 0x70

void tcaselect(uint8_t i) {
```

```
    if (i > 7) return;

    Wire.beginTransmission(TCAADDR);
    Wire.write(1 << i);
    Wire.endTransmission();
}

// standard Arduino setup()
void setup()
{
    while (!Serial);
    delay(1000);

    Wire.begin();

    Serial.begin(115200);
    Serial.println("\nTCAScanner ready!");

    for (uint8_t t=0; t<8; t++) {
        tcselect(t);
        Serial.print("TCA Port #"); Serial.println(t);

        for (uint8_t addr = 0; addr<=127; addr++) {
            if (addr == TCAADDR) continue;

            Wire.beginTransmission(addr);
            if (!Wire.endTransmission()) {
                Serial.print("Found I2C 0x"); Serial.println(addr, HEX);
            }
        }
    }
    Serial.println("\ndone");
}

void loop()
{
}
```

More codes on the Adafruit website:

<https://learn.adafruit.com/adafruit-tca9548a-1-to-8-i2c-multiplexer-breakout/arduino-wiring-and-test>

## Source

<https://www.ti.com/lit/ds/symlink/tca9548a.pdf>

## I<sup>2</sup>C topics on lamaPLC

| Page                                                                                                                                              | Date             | Tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • <a href="#">lamaPLC Communication: 1-Wire</a>                                                                                                   | 2026/04/23 21:51 | <a href="#">1-wire</a> , <a href="#">communication</a> , <a href="#">bus</a> , <a href="#">microlan</a> , <a href="#">i2c</a> , <a href="#">uart</a> , <a href="#">usart</a> , <a href="#">ds18b20</a>                                                                                                                                                                                                                                                                                                                                                                                                     |
| • <a href="#">lamaPLC Communication: I<sup>2</sup>C</a>                                                                                           | 2025/09/23 21:25 | <a href="#">i2c</a> , <a href="#">i c</a> , <a href="#">smbus</a> , <a href="#">philips</a> , <a href="#">bus</a> , <a href="#">communication</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                                                                                                                                                                                                |
| • <a href="#">lamaPLC project: Sension SCD CO<sup>2</sup> measurement module</a>                                                                  | 2026/04/15 19:34 | <a href="#">scd30</a> , <a href="#">scd40</a> , <a href="#">scd41</a> , <a href="#">iaq</a> , <a href="#">ndir</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">arduino code</a>                                                                                                                                                                                                                                                                                                                                                                                                           |
| • <a href="#">LamaPLC: AHT10 Modul</a>                                                                                                            | 2026/03/22 03:14 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">sensor</a> , <a href="#">aht</a> , <a href="#">aht 10</a> , <a href="#">modul</a>                                                                                                                                                                                                                                                                                                                                                                                               |
| • <a href="#">LamaPLC: AHT20 / BMP280 Modul</a>                                                                                                   | 2026/04/23 21:52 | <a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">adafruit</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">i2c</a>                                                                                                                                                                                                                                                                                                                                              |
| • <a href="#">LamaPLC: APDS - Avago ALS and proximity detection sensors with I<sup>2</sup>C communication</a>                                     | 2026/04/23 21:52 | <a href="#">avago</a> , <a href="#">apds-9900</a> , <a href="#">apds-9930</a> , <a href="#">apds-9960</a> , <a href="#">als</a> , <a href="#">proximity</a> , <a href="#">detection</a> , <a href="#">gesture recognition</a> , <a href="#">gesture</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                                                                                                                                                    |
| • <a href="#">lamaPLC: Arduino Modul: BME680</a>                                                                                                  | 2026/05/12 18:40 | <a href="#">code</a> , <a href="#">c</a> , <a href="#">2026</a> , <a href="#">arduino</a> , <a href="#">bme680</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">comunication</a>                                                                                                                                                                                                                                                                                                                                                                                                           |
| • <a href="#">lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module</a>                                                              | 2026/05/13 00:06 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">as5600</a> , <a href="#">as-5600</a> , <a href="#">magnetic</a> , <a href="#">induction</a> , <a href="#">angle</a> , <a href="#">sensor</a>                                                                                                                                                                                                                                                                                                                                                                                             |
| • <a href="#">lamaPLC: Bi-Directional Logic Level Converter 3.3V ↔ 5V</a>                                                                         | 2026/04/12 00:34 | <a href="#">bi-directional</a> , <a href="#">logic level converter</a> , <a href="#">i2c</a> , <a href="#">uart</a> , <a href="#">spi</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| • <a href="#">LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I<sup>2</sup>C communication</a>                                  | 2026/04/23 21:52 | <a href="#">bme280</a> , <a href="#">bme680</a> , <a href="#">bme688</a> , <a href="#">bmp180</a> , <a href="#">bmp280</a> , <a href="#">hw-611</a> , <a href="#">hw611</a> , <a href="#">bosch</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">ai</a> , <a href="#">cjmcu</a> , <a href="#">volatile organic compounds</a> , <a href="#">vocs</a> , <a href="#">volatile sulfur compounds</a> , <a href="#">vscs</a> , <a href="#">iaq</a> |
| • <a href="#">LamaPLC: CJMCU-219/INA-219 breakout board/IC with I<sup>2</sup>C communication</a>                                                  | 2026/04/23 21:52 | <a href="#">cjmcu-219</a> , <a href="#">ina-219</a> , <a href="#">ina219</a> , <a href="#">breakout board</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">voltage</a> , <a href="#">current</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">cjmcu</a>                                                                                                                                                                                                                                                                                  |
| • <a href="#">LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I<sup>2</sup>C communication</a> | 2026/04/23 21:52 | <a href="#">cjmcu-3216</a> , <a href="#">cjmcu</a> , <a href="#">ap-3216</a> , <a href="#">ap3216</a> , <a href="#">ambient light</a> , <a href="#">proximity</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">i2c</a> , <a href="#">communication</a>                                                                                                                                                                                                                                                                                                          |
| • <a href="#">lamaPLC: CJMCU-811 CCS811 Gas Sensor (VOCs TVOC CO<sub>2</sub>)</a>                                                                 | 2026/04/23 21:52 | <a href="#">cjmcu-811</a> , <a href="#">ccs811</a> , <a href="#">gas</a> , <a href="#">sensor</a> , <a href="#">vocs</a> , <a href="#">tvoc</a> , <a href="#">eco2</a> , <a href="#">co2</a> , <a href="#">arduino</a> , <a href="#">air quality</a> , <a href="#">metal oxide</a> , <a href="#">mox</a> , <a href="#">i2c</a> , <a href="#">micropython</a> , <a href="#">rp2040-eth</a>                                                                                                                                                                                                                  |
| • <a href="#">LamaPLC: D6T Omron Non-Contact Thermal Sensors with I<sup>2</sup>C communication</a>                                                | 2026/04/23 21:52 | <a href="#">d6t</a> , <a href="#">d6t-32l</a> , <a href="#">d6t-44l</a> , <a href="#">d6t-8l</a> , <a href="#">d6t-1a</a> , <a href="#">omron</a> , <a href="#">non-contact</a> , <a href="#">thermal</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                                                                                                                                                                                                                                  |
| • <a href="#">LamaPLC: DPS Infineon Temperature/Pressure sensors with I<sup>2</sup>C communication</a>                                            | 2026/04/23 21:52 | <a href="#">dps310</a> , <a href="#">infineon</a> , <a href="#">temperature</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">code</a>                                                                                                                                                                                                                                                                                                                                                                 |
| • <a href="#">lamaPLC: Energy, power, current, and voltage</a>                                                                                    | 2025/05/31 23:32 | <a href="#">i2c</a> , <a href="#">i c</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">energy</a> , <a href="#">power</a> , <a href="#">current</a> , <a href="#">sensor</a> , <a href="#">ina226</a>                                                                                                                                                                                                                                                                                                                                                                           |

|                                                                                                                 |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • <a href="#">LamaPLC: ENS ScioSense Multi-gas sensors with I<sup>2</sup>C communication</a>                    | 2026/04/23<br>21:52 | <a href="#">ens160</a> , <a href="#">sciosense</a> , <a href="#">gas-quality</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">eco2</a> , <a href="#">tvoc</a> , <a href="#">aqi</a> , <a href="#">indoor air quality</a> , <a href="#">iaq</a> , <a href="#">co2</a> , <a href="#">voc</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| • <a href="#">lamaPLC: ESP32 / ESP8266</a>                                                                      | 2025/11/22<br>00:07 | <a href="#">esp8266</a> , <a href="#">esp32</a> , <a href="#">esp32-c2</a> , <a href="#">esp32-c3</a> , <a href="#">esp32-c5</a> , <a href="#">esp32-c6</a> , <a href="#">esp32-c61</a> , <a href="#">esp32-h2</a> , <a href="#">esp32-s2</a> , <a href="#">esp32-s3</a> , <a href="#">esp32-p4</a> , <a href="#">espressif systems</a> , <a href="#">communication</a> , <a href="#">ethernet</a> , <a href="#">ip</a> , <a href="#">wi-fi</a> , <a href="#">thread</a> , <a href="#">zigbee</a> , <a href="#">matter</a> , <a href="#">homekit</a> , <a href="#">bluetooth</a> , <a href="#">mqtt</a> , <a href="#">adc</a> , <a href="#">spi</a> , <a href="#">uart</a> , <a href="#">i2c</a> , <a href="#">i2s</a> , <a href="#">rmt</a> , <a href="#">pwm</a> , <a href="#">usb</a> , <a href="#">usb otg</a> , <a href="#">twai</a>                                                                                                                |
| • <a href="#">LamaPLC: Gas sensors</a>                                                                          | 2023/07/01<br>17:29 | <a href="#">gas</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">onewire</a> , <a href="#">communication</a> , <a href="#">mq-3</a> , <a href="#">mq-4</a> , <a href="#">mq-5</a> , <a href="#">mq-6</a> , <a href="#">mq-7</a> , <a href="#">mq-8</a> , <a href="#">mq-9</a> , <a href="#">mq-135</a> , <a href="#">gm-102b</a> , <a href="#">gm-302b</a> , <a href="#">gm-502b</a> , <a href="#">gm-702b</a> , <a href="#">alcohol</a> , <a href="#">ch4</a> , <a href="#">natural gas</a> , <a href="#">smoke</a> , <a href="#">lng</a> , <a href="#">co</a> , <a href="#">co2</a> , <a href="#">lpg</a> , <a href="#">h2</a> , <a href="#">iso-butane</a> , <a href="#">nox</a> , <a href="#">nh3</a> , <a href="#">benzene</a> , <a href="#">town gas</a> , <a href="#">formaldehyde</a> , <a href="#">propane</a> , <a href="#">humidity</a> , <a href="#">temperature</a> , <a href="#">voc</a> , <a href="#">grv gas sens v2</a> |
| • <a href="#">lamaPLC: GY-511 6DOF sensor module</a>                                                            | 2026/04/23<br>21:52 | <a href="#">stmicroelectronics</a> , <a href="#">lsm303dlhc</a> , <a href="#">i2c</a> , <a href="#">lsm303</a> , <a href="#">sensor</a> , <a href="#">gy-511</a> , <a href="#">6dof</a> , <a href="#">pololu</a> , <a href="#">module</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| • <a href="#">LamaPLC: GY-9250 MPU-9250/6500 9-axis Attitude Sensor Board</a>                                   | 2026/04/23<br>21:52 | <a href="#">ak8963</a> , <a href="#">gy-9250</a> , <a href="#">mpu-9250</a> , <a href="#">9-axis</a> , <a href="#">motion detection</a> , <a href="#">magnetometer</a> , <a href="#">communication</a> , <a href="#">i c</a> , <a href="#">i2c</a> , <a href="#">spi</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| • <a href="#">lamaPLC: HT16K33 display controller</a>                                                           | 2026/04/23<br>21:51 | <a href="#">i2c</a> , <a href="#">7-segment display</a> , <a href="#">display</a> , <a href="#">ht16k33</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| • <a href="#">LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication</a>   | 2026/04/23<br>21:52 | <a href="#">htu</a> , <a href="#">htu31d</a> , <a href="#">htu21d</a> , <a href="#">htu20d</a> , <a href="#">sht20</a> , <a href="#">htu20</a> , <a href="#">sht21</a> , <a href="#">htu21</a> , <a href="#">si7021</a> , <a href="#">gy-21</a> , <a href="#">gy-213v</a> , <a href="#">hdc1080</a> , <a href="#">si702</a> , <a href="#">gy-20</a> , <a href="#">sht31</a> , <a href="#">htu31</a> , <a href="#">si7031</a> , <a href="#">gy-31</a> , <a href="#">te connectivity</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                                                                                                                                                                                                          |
| • <a href="#">lamaPLC: INA modules with Arduino libraries</a>                                                   | 2026/04/23<br>21:52 | <a href="#">i2c</a> , <a href="#">i c</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">energy</a> , <a href="#">power</a> , <a href="#">current</a> , <a href="#">monitor</a> , <a href="#">sensor</a> , <a href="#">ina219</a> , <a href="#">gy-219</a> , <a href="#">ina226</a> , <a href="#">gy-216</a> , <a href="#">ina228</a> , <a href="#">gy-228</a> , <a href="#">ina237</a> , <a href="#">ina238</a> , <a href="#">ina260</a> , <a href="#">ina3221</a> , <a href="#">ina</a>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| • <a href="#">lamaPLC: INA226 - current/voltage/power monitor with I<sup>2</sup>C communication</a>             | 2026/04/23<br>21:52 | <a href="#">i2c</a> , <a href="#">i c</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">energy</a> , <a href="#">power</a> , <a href="#">current</a> , <a href="#">monitor</a> , <a href="#">sensor</a> , <a href="#">ina226</a> , <a href="#">ina219</a> , <a href="#">ina</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| • <a href="#">lamaPLC: LCD 1602/2004 with I<sup>2</sup>C communication</a>                                      | 2026/02/14<br>18:27 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">display</a> , <a href="#">lcd</a> , <a href="#">1602</a> , <a href="#">2004</a> , <a href="#">hd44780</a> , <a href="#">pcf8574</a> , <a href="#">pcf8574t</a> , <a href="#">pcf8574at</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                                                                                               |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • <a href="#">LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module</a>                                                                   | 2026/04/23 21:52 | <a href="#">max30102</a> , <a href="#">max30100</a> , <a href="#">heart rate click</a> , <a href="#">sensor</a> , <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                                                                                                                                                         |
| • <a href="#">lamaPLC: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I<sup>2</sup>C / SPI</a>                                 | 2026/04/23 21:52 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">mcp23017</a> , <a href="#">mcp23s17</a> , <a href="#">spi</a> , <a href="#">i o expander</a> , <a href="#">serial</a> , <a href="#">cjmcu-2317</a> , <a href="#">cjmcu</a>                                                                                                                                                                                                   |
| • <a href="#">lamaPLC: MLX90614 (GY-906) infrared non-contact thermometer</a>                                                                 | 2026/05/08 00:03 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">temperature</a> , <a href="#">mlx90614</a> , <a href="#">gy-906</a> , <a href="#">modul</a> , <a href="#">infrared</a> , <a href="#">non-contact thermometer</a> , <a href="#">dsp</a> , <a href="#">pwm</a> , <a href="#">smbus</a> , <a href="#">hailege</a>                                                                                                               |
| • <a href="#">lamaPLC: PCF857x I/O Expander chip/modul with I<sup>2</sup>C communication</a>                                                  | 2026/05/15 01:03 | <a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">pcf857x</a> , <a href="#">pcf8574</a> , <a href="#">pcf8574a</a> , <a href="#">pcf8575</a> , <a href="#">i o expander</a> , <a href="#">i o extension</a> , <a href="#">nxp</a> , <a href="#">texas instruments</a>                                                                                                                                                          |
| • <a href="#">LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I<sup>2</sup>C communication</a>                              | 2026/04/23 21:52 | <a href="#">paj7620u2</a> , <a href="#">gy-paj7620</a> , <a href="#">pixart</a> , <a href="#">gesture recognition</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                                                                                                                          |
| • <a href="#">lamaPLC: Raspberries</a>                                                                                                        | 2026/07/07 19:15 | <a href="#">raspberry</a> , <a href="#">rp2040</a> , <a href="#">rp2350</a> , <a href="#">rp2040 zero</a> , <a href="#">rp2040 eth</a> , <a href="#">pi pico h</a> , <a href="#">pi pico w</a> , <a href="#">pi pico wh</a> , <a href="#">raspberry pi pico</a> , <a href="#">pi pico 2</a> , <a href="#">i2c</a> , <a href="#">microcontroller</a>                                                                                            |
| • <a href="#">lamaPLC: RP2040_ETH_Modul: I<sup>2</sup>C scanner</a>                                                                           | 2026/05/12 16:20 | <a href="#">code</a> , <a href="#">micropython</a> , <a href="#">2026</a> , <a href="#">rp2040 eth</a> , <a href="#">i2c</a> , <a href="#">comunication</a>                                                                                                                                                                                                                                                                                    |
| • <a href="#">lamaPLC: RP2040_ETH_Modul: MLX90614 simple</a>                                                                                  | 2026/05/12 17:06 | <a href="#">code</a> , <a href="#">micropython</a> , <a href="#">2026</a> , <a href="#">rp2040 eth</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">mlx90614</a>                                                                                                                                                                                                                                                        |
| • <a href="#">lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data</a>                                                                     | 2026/05/12 21:06 | <a href="#">code</a> , <a href="#">micropython</a> , <a href="#">2026</a> , <a href="#">rp2040 eth</a> , <a href="#">bme680</a> , <a href="#">i2c</a> , <a href="#">sensor</a> , <a href="#">communication</a>                                                                                                                                                                                                                                 |
| • <a href="#">lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data and store in Modbus input registers</a>                                 | 2026/05/12 21:04 | <a href="#">code</a> , <a href="#">micropython</a> , <a href="#">2026</a> , <a href="#">rp2040 eth</a> , <a href="#">bme680</a> , <a href="#">i2c</a> , <a href="#">sensor</a> , <a href="#">communication</a>                                                                                                                                                                                                                                 |
| • <a href="#">LamaPLC: SC16IS750 / SC16IS752: One or two serial (UART) ports from microcontroller via I<sup>2</sup>C or SPI communication</a> | 2026/04/23 21:52 | <a href="#">cjmcu-750</a> , <a href="#">cjmcu-752</a> , <a href="#">cjmcu</a> , <a href="#">nxp</a> , <a href="#">sc16is750</a> , <a href="#">sc16is752</a> , <a href="#">uart</a> , <a href="#">serial</a> , <a href="#">i2c</a> , <a href="#">spi</a> , <a href="#">modul</a> , <a href="#">converter</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                                                   |
| • <a href="#">LamaPLC: SGP Sensirion TVOC/VOC sensors with I<sup>2</sup>C communication</a>                                                   | 2026/04/15 19:41 | <a href="#">sgp30</a> , <a href="#">sgp40</a> , <a href="#">sgp41</a> , <a href="#">sensirion</a> , <a href="#">gas-sensor</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">eco2</a> , <a href="#">voc</a> , <a href="#">tvoc</a> , <a href="#">indoor air quality</a> , <a href="#">iaq</a> , <a href="#">nox</a> , <a href="#">hydrogen</a> |
| • <a href="#">LamaPLC: SHT Sensirion Temperature/humidity sensor with I<sup>2</sup>C communication</a>                                        | 2026/04/23 21:52 | <a href="#">sht20</a> , <a href="#">sht21</a> , <a href="#">sht25</a> , <a href="#">sht30</a> , <a href="#">sht31</a> , <a href="#">sht35</a> , <a href="#">sht40</a> , <a href="#">gy21</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>                                                          |
| • <a href="#">lamaPLC: Signal level converters</a>                                                                                            | 2026/02/14 23:47 | <a href="#">pca9306</a> , <a href="#">i2c</a> , <a href="#">voltage</a> , <a href="#">level</a> , <a href="#">converter</a>                                                                                                                                                                                                                                                                                                                    |
| • <a href="#">lamaPLC: st756x display drivers</a>                                                                                             | 2026/05/20 16:41 | <a href="#">display</a> , <a href="#">driver</a> , <a href="#">i2c</a> , <a href="#">spi</a> , <a href="#">lcd</a> , <a href="#">cog</a> , <a href="#">oled</a> , <a href="#">st7565</a> , <a href="#">st7567</a> , <a href="#">gm12864</a> , <a href="#">gm12864-59n</a> , <a href="#">gm12864-03a</a> , <a href="#">gm12864-01a</a> , <a href="#">gme12864-41</a>                                                                            |
| • <a href="#">lamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I<sup>2</sup>C Switch Module</a>                                               | 2026/02/14 23:51 | <a href="#">tca9548a</a> , <a href="#">hw617</a> , <a href="#">i2c</a> , <a href="#">switch</a> , <a href="#">communication</a> , <a href="#">expansion board</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                    |
| • <a href="#">lamaPLC: TM1637 7-segment display</a>                                                                                           | 2026/02/14 18:26 | <a href="#">i2c</a> , <a href="#">7-segment display</a> , <a href="#">display</a> , <a href="#">tm1637</a> , <a href="#">arduino</a>                                                                                                                                                                                                                                                                                                           |

|                                                                                                                      |                  |                                                                                                                                                                                   |
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| • LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I <sup>2</sup> C communication               | 2026/04/23 21:52 | tof050c, vl6180, tof200c, vl53l0x, tof400c, vl53l1x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code                                           |
| • LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I <sup>2</sup> C communication | 2026/04/23 21:52 | vl53l0x, vl53l1x, vl53l0 1xv2, gy-530, time-of-flight, tof, laser-ranging, i2c, communication, sensor, arduino, code                                                              |
| • LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I <sup>2</sup> C communication                | 2026/04/23 21:52 | vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code                                                                                       |
| • lamaPLC: XGZP68xx: Silicon Pressure Sensors/Module                                                                 | 2026/05/15 15:17 | communication, i2c, sensor, modul, pressure, cfsensor, xgzp68xx, xgzp6810d, xgzp6857d, xgzp6859d, xgzp6887d, xgzp6897d, xgzp6899a, piezoresistive, capacitive                     |
| • Magnetic angle sensors                                                                                             | 2026/04/23 21:52 | magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive |
| • SSH1106/SSD1306 OLED Display with I <sup>2</sup> C communication                                                   | 2026/02/14 18:27 | i2c, oled, display, ssd1306, sh1106, ssh1106, arduino, cmos                                                                                                                       |

[TCA9548A](#), [HW617](#), [I2C](#), [switch](#), [communication](#), [expansion board](#), [Arduino](#)

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