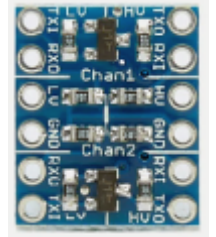


# lamaPLC: Bi-Directional Logic Level Converter 3.3V ↔ 5V

The Two-Channel 5V to 3.3V Bi-Directional Logic Level Converter is a compact module designed to safely bridge communication between devices operating at different voltage levels, such as an Arduino Uno (5V) and a Raspberry Pi or 3.3V sensor.



## Key Features

- **Bi-Directional Communication:** Automatically converts signals from 5V to 3.3V and vice versa on the same channel.
- **Protocol Support:** Optimised for [I<sup>2</sup>C](#) (IIC) as it manages the bidirectional data line (SDA) without needing manual direction control. It also supports [UART](#), [SPI](#), and [1-Wire](#) protocols.
- **Voltage Flexibility:** Although primarily used for 5V and 3.3V, many modules are compatible with 1.8V and 2.8V systems.
- **Compact Design:** Usually measures about 16mm x 13mm and is suitable for breadboard use.



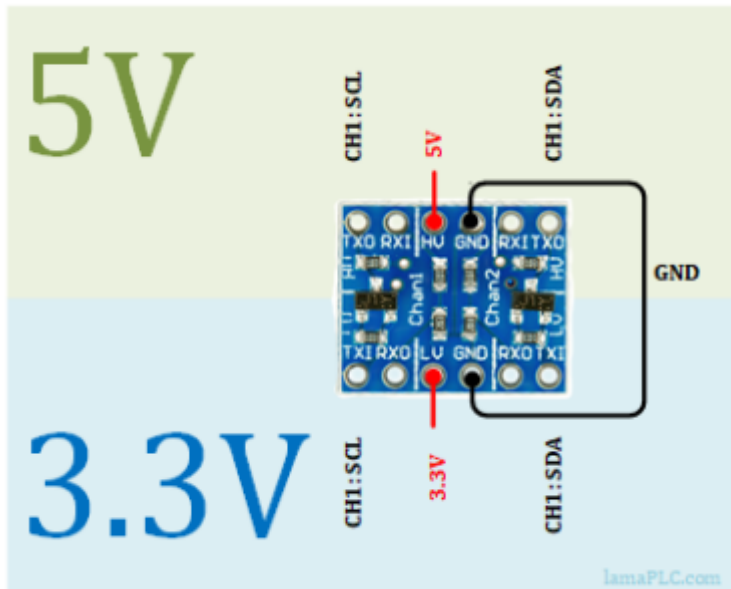
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2026/02/14 22:38

## Typical Pinout and Wiring

The module is divided into a High Voltage (HV) side and a Low Voltage (LV) side. You must provide power references to both.



Pin Label	Connection
<b>HV</b>	5V Power Supply (High Voltage Reference)
<b>LV</b>	3.3V Power Supply (Low Voltage Reference)
<b>GND</b>	Common Ground (connect to both systems)
<b>HV1 / HV2</b>	5V side data lines (e.g., SDA/SCL from Arduino)
<b>LV1 / LV2</b>	3.3V side data lines (e.g., SDA/SCL to sensor)

## Communication topics on lamaPLC

Page	Date	Tags
<ul style="list-style-type: none"> <li>• <a href="#">ISM Band</a></li> </ul>	2025/11/10 18:53	ism, ism band, rfid, nfc, dash7, hc-12, arduino, zigbee, z-wave, bluetooth, wi-fi, thread, miwi, nrf24, starlink, wiegand, rf, communication, bus, radio, ku band, ka band, k band, x band
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC Communication: 1-Wire</a></li> </ul>	2025/05/31 21:56	1-wire, communication, bus, microlan, i2c, uart, usart, ds18b20
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC Communication: AS-i</a></li> </ul>	2025/05/31 22:51	bus, communication, as-i, basic, industrial ethernet, devicenet, interbus, manchester-ii, apm
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC Communication: Bluetooth basic</a></li> </ul>	2025/11/19 21:52	communication, bus, bluetooth, ism, ieee, 802.15.1, ble, lmp, l2cap, rfcomm, iot, arduino, hc-05, hc-06
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC Communication: CAN</a></li> </ul>	2025/11/20 20:43	communication, bus, can, canopen, most, automotive ethernet, sent sae-j2716, flexray, lin bus
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC Communication: ControlNet</a></li> </ul>	2025/05/31 22:58	bus, communication, devicenet, cip, can, ethernet ip, ethernet, controlnet, mac, peer-to-peer, allen-bradley, rockwell automation, fieldbus, rg-6, coaxial cable

• <a href="#">lamaPLC Communication: DALI</a>	2024/11/16 20:08	communication, rs-232, dali, light technic, diia, selv, manchester, asynchronous, half-duplex, serial, iec 62386, d4i, dali-2, dt6, dt8
• <a href="#">lamaPLC Communication: DASH7</a>	2024/11/16 20:21	bus, communication, dash7, ism, srd, aes 128, d7a, blast, iot, rfid
• <a href="#">lamaPLC Communication: DeviceNet</a>	2024/11/16 19:43	bus, communication, devicenet, 62026-3, cip, can, ethernet ip, ethernet, controlnet, mac, peer-to-peer, canopen, allen-bradley, rockwell automation, bosch
• <a href="#">lamaPLC Communication: DMX512</a>	2024/11/16 00:16	bus, communication, dmx512, dmx512-a, rs-485, xlr3, xlr5
• <a href="#">lamaPLC Communication: EtherNet/IP</a>	2024/11/17 00:26	communication, ethernet, bus, ip, cip, ethernet ip, udp, industrial ethernet, ie, tcp, unicast, devicenet, controlnet, ieee 802.3
• <a href="#">lamaPLC Communication: GPS</a>	2024/11/15 20:15	communication, satellite, navigation, gps, ocx, cdma, glonass, beidou, galileo, qzss, uart, arduino
• <a href="#">lamaPLC Communication: IEC 61850 basic</a>	2025/09/23 21:03	1-wire, communication, bus, xml, iec 61850, iec, ethernet, scl, goose, ied
• <a href="#">lamaPLC Communication: InterBus</a>	2024/11/16 00:46	bus, communication, interbus, phoenix contact, en 50254, iec 61158
• <a href="#">lamaPLC Communication: IoT</a>	2025/05/31 22:50	communication, iot, internet, iomt, 6lowpan, ipv4, ipv6, bluetooth, ble, li-fi, nfc, rfid, wi-fi, zigbee, z-wave, lte- advanced, 5g, lora, dash7, lpwan, lorawan, sigfox, nb-iot, weightless, rpma, mioty, vsat, ethernet, thread, matter
• <a href="#">lamaPLC Communication: I<sup>2</sup>C</a>	2025/09/23 19:25	i2c, i c, smbus, philips, bus, communication, arduino
• <a href="#">lamaPLC Communication: KNX / EIB</a>	2024/11/15 20:18	communication, bus, knx, knx tp, knx pl, knx rf, knx ip, eib, ehs, batibus, ethernet, ets
• <a href="#">lamaPLC Communication: LoRa, LoRaWAN and LoRa Mesh</a>	2026/03/05 15:43	communication, bus, lora, lorawan, loramesh, mesh, ism, the things network, ttn, aloha, beaconing, csma, csma-ca, mac, adaptive data rate, adr, spreading factor, sf, transmission power, eu863, eu863-870, eu433, us902-928, au915-928, as923, in865-867, cn433, cn470, cn779, cn920, semtech, sx1261, sx1262, sx1276, sx1272, sx1278, encoding rate, er, time on air, toa, iot, netid, listen before talk, lbt
• <a href="#">lamaPLC communication: Matter</a>	2024/11/15 20:21	communication, iot, matter, ethernet, tcp, udp, ipv6, thread, ble, cellular, wifi, pki, ip
• <a href="#">lamaPLC Communication: Modbus</a>	2025/11/19 21:42	modbus, communication, bus, modicon, standard, rtu, tcp, multimaster, coil, register

• <a href="#">lamaPLC Communication: MQTT</a>	2024/11/15 20:28	<a href="#">communication, mqtt, iot, tcp, udp, bluetooth, tcp ip, quic, mqtt-sn, oasis, message broker, mosquitto, qos, arduino, iso iec 20922</a>
• <a href="#">lamaPLC Communication: NFC</a>	2025/05/31 22:16	<a href="#">communication, nfc, rfid, bluetooth, ble, manchester, ask, iso iec 18092</a>
• <a href="#">lamaPLC Communication: NRF24</a>	2024/11/16 01:26	<a href="#">bus, communication, nrf24, ism, ism band, gfsk, rpd, arduino</a>
• <a href="#">lamaPLC Communication: OPC</a>	2024/11/15 20:33	<a href="#">communication, opc, scada, ole, net, xml, tcp, hmi, server, opc ua, opc ua client, mqtt, json, dcom, simatic, erp</a>
• <a href="#">lamaPLC Communication: PowerLink</a>	2024/11/15 21:15	<a href="#">communication, bus, ethernet, tcp, udp, http, powerlink, fast ethernet, opensafety</a>
• <a href="#">lamaPLC Communication: Profibus</a>	2024/11/16 19:09	<a href="#">profibus, profibus pa, profibus dp, communication, fieldbus, bus, iec 61158, iec 61784-1, profinet, rs-485</a>
• <a href="#">lamaPLC Communication: RFID</a>	2025/05/31 21:52	<a href="#">communication, rfid, radio, rf, aidc, prat, arpt, arat, bap, uhf, nfc, em4100, t5557, tag, manchester, fsk, psk, biphasse, nrz</a>
• <a href="#">lamaPLC Communication: RS-232</a>	2024/11/15 21:51	<a href="#">bus, communication, rs-232, rs, basic</a>
• <a href="#">lamaPLC Communication: RS-422</a>	2024/11/15 21:50	<a href="#">bus, communication, rs-422, rs, basic</a>
• <a href="#">lamaPLC Communication: RS-485</a>	2024/11/15 21:52	<a href="#">bus, communication, rs-485, rs, basic, profibus</a>
• <a href="#">lamaPLC Communication: SCADA</a>	2024/11/17 00:33	<a href="#">communication, scada, industry, industrial, hmi</a>
• <a href="#">lamaPLC Communication: Sinec H1</a>	2024/11/16 20:44	<a href="#">communication, bus, fieldbus, sinec-h1, s5, s7, simatic, siemens, industrial ethernet, ie, iec 8073</a>
• <a href="#">lamaPLC Communication: SPI</a>	2024/11/15 21:58	<a href="#">bus, communication, spi, basic, arduino, ssi, sdi, miso, sdo</a>
• <a href="#">lamaPLC Communication: TCP / UDP Basic</a>	2025/11/20 21:49	<a href="#">communication, bus, tcp, udp, tcp ip, darpa, ietf, smtp, http, https, ftp, ftps, ssh, pop3, imap, mysql, cpanel, whm, ssl, webmail, mqtt, ethernet, ip</a>
• <a href="#">lamaPLC communication: Thread</a>	2024/11/15 22:07	<a href="#">bus, communication, matter, thread, matter over thread, zigbee, aes, ipv6, iot, 6lowpan, ethernet, wifi</a>
• <a href="#">lamaPLC Communication: UART / USART basic</a>	2025/02/11 20:21	<a href="#">bus, communication, uart, rs-232, rs-422, rs-485</a>
• <a href="#">lamaPLC Communication: USB</a>	2025/11/20 23:07	<a href="#">usb, usb otg, otg, msc, ums, mtp, dfu, uac, adc, communication, bus, basic</a>
• <a href="#">lamaPLC Communication: Wi-Fi</a>	2024/11/16 18:46	<a href="#">communication, iot, internet, wi-fi, wifi, ieee 802.11</a>
• <a href="#">lamaPLC Communication: Wiegand</a>	2024/11/16 23:39	<a href="#">wiegand, communication, interface, cr80, iec 7810, h10301, hid, wiegand 26, wiegand 32, wiegand 34, wiegand 35, wiegand 37, wiegand 38, wiegand 42</a>

• lamaPLC Communication: WS2812	2024/11/15 23:36	bus, communication, ws2812, ws2812b, ws 2812, ws 2812 b, 5050smd, 4020, 2020, 3535, 5050, nzt, rgb chip, led, arduino, rgb
• lamaPLC Communication: Z-Wave	2024/11/17 21:25	communication, ethernet, bus, ip, z-wave, ism
• lamaPLC Communication: Zigbee	2024/11/17 21:43	communication, ethernet, bus, ip, zigbee, wpan, bluetooth, wi-fi, ism, ieee 802.15.4, zdo, zigbee pro, zc, zr, zed, smart energy, homegrid, homeplug, powerline, ipso, sunspec, 6lowpan, ipv6, rf4ce
• LamaPLC: AHT10 Modul	2026/03/21 19:20	communication, i2c, temperature, humidity, sensor, aht, aht 10, modul
• lamaPLC: AI-Thinker LoRA products	2026/03/05 15:40	ai-thinker, lora manufacturer, communication, lora, modul, ra-01, ra-02, spi, arduino
• LamaPLC: APDS - Avago ALS and proximity detection sensors with I <sup>2</sup> C communication	2026/02/14 22:24	avago, apds-9900, apds-9930, apds-9960, als, proximity, detection, gesture recognition, gesture, i2c, communication, sensor, arduino, code
• lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module	2026/03/28 22:50	communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor
• LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I <sup>2</sup> C communication	2026/02/15 20:40	bme280, bme680, bmp180, bmp280, hw-611, hw611, bosch, temperature, humidity, pressure, sensor, arduino, i2c, communication, cjmcu
• lamaPLC: CJMCU-164; SN74HC164D 8-bit Shift Register Module	2026/02/14 22:48	cjmcu-164, sn74hc164d, 8-bit shift register, communication, 7-segment, cjmcu, arduino
• LamaPLC: CJMCU-219/INA-219 breakout board/IC with I <sup>2</sup> C communication	2026/02/14 23:37	cjmcu-219, ina-219, ina219, breakout board, i2c, communication, sensor, voltage, current, arduino, code, cjmcu
• LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I <sup>2</sup> C communication	2026/02/14 22:40	cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication
• LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication	2026/02/14 22:39	cjmcu-3901, cjmcu, pmw3901, pmw-3901, optical flow, sensor, pixart, spi, communication, arduino, code, pmw3901mb-txqt
• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/02/14 23:39	cjmcu, cjmcu-6701, acs758, acs-758, galvanic skin response, gsr, electrodermal activity, eda, spi, communication, arduino, code, sensor, healthcare
• LamaPLC: DPS Infineon Temperature/Pressure sensors with I <sup>2</sup> C communication	2026/02/14 18:11	dps310, infineon, temperature, pressure, sensor, arduino, i2c, communication, code
• lamaPLC: DS18B20 1-Wire Digital Thermometer	2026/02/15 20:44	ds18b20, sensor, 1-wire, communication, arduino, thermometer, parasitic mode

• <a href="#">lamaPLC: Ebyte LoRA products</a>	2026/03/05 15:20	<a href="#">ebyte</a> , <a href="#">lora manufacturer</a> , <a href="#">communication</a> , <a href="#">lora</a> , <a href="#">modul</a>
• <a href="#">lamaPLC: Energy, power, current, and voltage</a>	2025/05/31 21:32	<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>	2026/02/14 19:29	<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>	2025/11/21 23:07	<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 15:29	<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-9250 MPU-9250/6500 9-axis Attitude Sensor Board</a>	2026/02/14 22:45	<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>
• <a href="#">LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication</a>	2026/02/14 22:09	<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="#">gy-213v-hdc1080</a> , <a href="#">cjmcu</a> , <a href="#">cjmcu-1080</a> , <a href="#">texas instruments</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication</a>	2026/02/14 21:54	<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: HX711 24-bit analog-to-digital converter (ADC)</a>	2026/02/15 23:59	<a href="#">hx711</a> , <a href="#">hx-711</a> , <a href="#">analog-to-digital</a> , <a href="#">adc</a> , <a href="#">converter</a> , <a href="#">load cell</a> , <a href="#">wheatstone bridge</a> , <a href="#">weight</a> , <a href="#">sensor</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">lamaPLC: INA modules with Arduino libraries</a>	2026/03/28 18:02	<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>	2026/02/14 23:58	<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: Industrial Ethernet (IE) Basic</a>	2024/11/15 20:17	<a href="#">communication</a> , <a href="#">bus</a> , <a href="#">ethernet</a> , <a href="#">industrial ethernet</a> , <a href="#">ie</a> , <a href="#">ethercat</a> , <a href="#">ethernet ip</a> , <a href="#">profinet</a> , <a href="#">powerlink</a> , <a href="#">sercos</a> , <a href="#">iii</a> , <a href="#">cc-link</a> , <a href="#">modbus tcp</a> , <a href="#">ieee</a> , <a href="#">rstp</a> , <a href="#">stp</a>

• lamaPLC: LCD 1602/2004 with I <sup>2</sup> C communication	2026/02/14 17:27	communication, i2c, display, lcd, 1602, 2004, hd44780, pcf8574, pcf8574t, pcf8574at, arduino
• lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC	2026/02/14 23:35	communication, arduino, sensor, energy harvesting, energy, ambient power
• LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module	2026/02/14 23:38	max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code
• lamaPLC: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I <sup>2</sup> C / SPI	2026/02/14 22:52	communication, i2c, mcp23017, mcp23s17, spi, i o expander, serial, cjmcu-2317, cjmcu
• LamaPLC: MH-Z19 series of NDIR CO <sub>2</sub> sensors	2026/02/15 20:20	mh-z19, mh-z19d, mh-z19c, mh-z19b, mh-z19e, ndir, co <sub>2</sub> , sensor, winsen, uart, pwm, communication, non-dispersive infrared, infrared, ir, temperature, arduino, code, tasmota
• LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I <sup>2</sup> C communication	2026/02/14 22:23	paj7620u2, gy-paj7620, pixart, gesture recognition, i2c, communication, sensor, arduino, code
• lamaPlc: Profinet	2024/11/15 20:39	communication, bus, profinet, mrp, rstp, gsddl, xml, profibus, ethernet, tcp
• lamaPLC: PTA8C04 4-channel PT100 Modbus Modul	2026/02/14 17:42	pta8c04, sensor, modbus, rtu, rs-485, communication, platine, um72
• LamaPLC: S7-1500 and Metrawatt EM2389 Modbus TCP communication	2024/11/18 17:55	simatic, s7, modbus, communication, metrawatt, em2389, source code, scl, mid
• LamaPLC: S7-1500 and Sicam Q200 Modbus TCP communication	2023/06/24 22:42	simatic, s7, modbus, tia portal, communication, sicam, q200, sicam q200, source code, scl, class a
• lamaPLC: S7-1500 and UICPAL Temp.humi.sensor Modbus TCP communication	2023/06/19 21:24	bus, communication, s7, simatic, s7 1500, s7 1200, scl, uicpal, temperature, humidity, modbus, example, download, tia portal
• LamaPLC: SGP Sensirion Gas-sensors with I <sup>2</sup> C communication	2026/02/15 20:27	sgp30, sgp40, sgp41, sensirion, gas-sensor, i2c, communication, sensor, arduino, code, eco <sub>2</sub> , voc, tvoc, indoor air quality, iaq, nox, hydrogen
• LamaPLC: SHT Sensirion Temperature/humidity sensor with I <sup>2</sup> C communication	2026/02/15 20:29	sht20, sht21, sht25, sht30, sht31, sht35, sht40, gy21, temperature, humidity, i2c, communication, sensor, arduino, code
• lamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I <sup>2</sup> C Switch Module	2026/02/14 22:51	tca9548a, hw617, i2c, switch, communication, expansion board, arduino
• LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication	2026/02/15 22:34	ads111x, ads12xx, delta-sigma, converter, texas instruments, adc, spi, communication, sensor, arduino, code, ads1110, ads1112, ads1113, ads1114, ads1115, ads1118, ads1119, ads1220, ads1232, ads1234, ads1256, ads1261, ads1263, multi channel

- [LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight \(ToF\) sensors with I<sup>2</sup>C communication](#) 2026/02/14 22:22 [tof050c, vl6180, tof200c, vl53l0x, tof400c, vl53l1x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code](#)
- [lamaPLC: TWAI basics](#) 2025/11/20 21:41 [bus, communication, as-i, basic, can, twai, espressif, esp32](#)
- [LamaPLC: UICPAL Temp.humi.sensor](#) 2023/06/24 22:43 [simatic, s7, modbus, communication, temperature, humidity, sensor](#)
- [LamaPLC: VL53Lnn STMicroelectronics time-of-flight \(ToF\) laser-ranging sensors with I<sup>2</sup>C communication](#) 2026/02/14 22:21 [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](#) 2026/02/14 22:22 [vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code](#)
- [lamaPLC: Waveshare LoRA products](#) 2026/03/05 15:20 [waveshare, lora manufacturer, communication, lora, modul, usb-to-lora-xf02, core 1262, 1262, spi, arduino, rp2040-lora, rp2040](#)
- [LamaPLC: XTM35SC Modbus communication](#) 2024/08/18 14:52 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)
- [lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication](#) 2026/02/14 23:00 [communication, modbus, rtu, sensor, weight, yr-3180, hx710b, arduino, ttl, rs-485](#)
- [Magnetic angle sensors](#) 2026/03/05 20:19 [magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
- [NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU](#) 2026/02/14 17:49 [nt18b07, sensor, modbus, rtu, rs-485, communication, platine](#)
- [Simatic Modbus S7 error- and statuscodes](#) 2025/11/13 22:59 [communication, bus, modbus, error, modbus error code, 7000, 7001, 7002, 7003, 7004, 7005, 7006, 80a1, simatic, s7, siemens, tia](#)
- [Waveshare](#) 2023/06/17 19:43 [waveshare, converter, modbus, modbus rtu, modbus tcp, communication](#)
- [XTM35SC current / voltage meter](#) 2023/06/01 11:45 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)

[Bi-Directional, Logic Level Converter, I2C, UART, SPI](#)

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