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lamaPLC: Ebyte LoRA products

Model Series	Chip Solution	Frequency Range	Power	Distance	Key Features
E220 Series	LLCC68	410-493 / 850-930 MHz	22-30 dBm	5-10 km	New generation, lower power, faster speed than SX127x
E22 Series	SX1262 / SX1268	170 / 230 / 433 / 868 / 915 MHz	22-33 dBm	5-16 km	High efficiency, supports air wake-up and deep sleep
E30 Series	SI4463 / SI4438	148-173.5 / 433 MHz	20-27 dBm	~2-5 km	Industrial-grade stability for specific narrow bands
E32 Series	SX1276 / SX1278	170 / 433 / 868 / 915 MHz	20-37 dBm	5-25 km	Classic "workhorse" series; TTL level, widely compatible

Key Technical Specifications

- **Operating Voltage:** Most modules are compatible with 3.3V to 5V for the IO port.
- **Transmission Modes:** These modules typically feature four operating modes (Normal, Wake-up, Power-saving, and Sleep) controlled via M0 and M1 pins.
- **Interface:** Primarily uses UART (Serial Port) for transparent transmission, making it easy to interface with Arduino or Raspberry Pi.
- **Antenna Options:** Available in SMD (stamp hole) or DIP (pin header) packages with IPEX or SMA antenna connectors.

E32 Series Comparison Table

The E32 series is based on the Semtech SX1276 and SX1278 chips, utilizing LoRa spread-spectrum technology for long-range, interference-resistant communication.

Model	Chip	Frequency	Power	Distance	Interface
E32-868T30D	SX1276	868 MHz	30 dBm	8.0 km	UART (TTL)
E32-868T20D	SX1276	868 MHz	20 dBm	3.0 km	UART (TTL)
E32-433T30D	SX1278	433 MHz	30 dBm	8.0 km	UART (TTL)
E32-433T20D	SX1278	433 MHz	20 dBm	3.0 km	UART (TTL)
E32-170T30D	SX1278	170 MHz	30 dBm	8.0 km	UART (TTL)
E32-900T20D	SX1276	862-931 MHz	20 dBm	3.0 km	UART (TTL)

E32 DIP Series Pinout

The Ebyte E32 series LoRa modules usually have either a 7-pin or 22-pin configuration, depending on the model (DIP or SMD). For the standard E32-433T20D and E32-TTL-100 (DIP models), the pinout is listed below:

Pin No.	Item	Direction	Description
1	M0	Input	Operating mode control (with M1). Must not float
2	M1	Input	Operating mode control (with M0). Must not float
3	RXD	Input	UART TTL input. Connects to external TXD. 3.3V Logic

Pin No.	Item	Direction	Description
4	TXD	Output	UART TTL output. Connects to external RXD. 3.3V Logic
5	AUX	Output	Indicates status (Busy/Idle) or self-check initialization (3.3V when HIGH)
6	VCC	Power	Power supply: 2.3V to 5.5V DC
7	GND	Power	Ground

Configuration and Pins (M0, M1)

Mode	M1	M0	Description
Normal	0 (GND)	0 (GND)	UART and wireless channel are open; transparent transmission
Wake-up	0 (GND)	1 (VCC*)	Same as normal, but adds a preamble to wake up the receiver
Power-saving	1 (VCC*)	0 (GND)	WOR (Wake On Radio) mode; receiving only
Sleep	1 (VCC*)	1 (VCC*)	Used for parameter configuration via AT commands or Ebyte software

*Note: VCC for logic pins must be 3.3V, even if the main module VCC is 5V.

Power Supply (VCC): Most E32 modules can be powered directly from a 5V supply, and some models require at least 5V to ensure maximum performance at high transmit power (e.g., 30dBm/1W versions).

Logic Level: The UART interface operates at 3.3V TTL. **Using 5V logic from an MCU like an Arduino Uno without a level shifter can damage the module.**

- **Level Shifting:** Use a level shifter or a voltage divider (such as 2kΩ and 1kΩ resistors) on the RX, M0, and M1 pins.
- **Pull-up Resistors:** For 5V MCUs, it is recommended to add 4.7kΩ to 10kΩ pull-up resistors to the TXD and AUX pins to enhance stability.

E32 module "AT" commands

In Sleep Mode ($M1=1, M0=1$), the E32 module does not use standard text-based "AT" commands (like AT+VER). Instead, it uses Hexadecimal Control Commands sent at a fixed baud rate of 9600bps (**9600, 8N1**).

All commands must be sent as a sequence of bytes. The module *will not respond if the format is incorrect*.

Command (HEX)	Purpose	Response from Module
C0 + 5 bytes	Set & Save: Configures parameters and saves to EEPROM (persists after power-off)	C0 + 5 bytes (Current config)
C2 + 5 bytes	Set Temporary: Configures parameters for current session only (lost after power-off)	C0 + 5 bytes (Current config)
C1 C1 C1	Read Config: Requests the current working parameters	C0 + 5 bytes (Current config) Default: 192- 0-0-26-6-68 , Default Address :00 Default channel: 6

Command (HEX)	Purpose	Response from Module
C3 C3 C3	Read Version: Requests the hardware and firmware version info	C3 + Frequency code + Version + Features Example 192- 69 -12-30 Frequency code: Hex 46, dec 70: 170 MHz Hex 45, dec 69: 868 MHz Hex 44, dec 68: 915 MHz Hex 38, dec 56: 470 MHz Hex 32, dec 50: 433 MHz
C4 C4 C4	Reset: Performs a software reset of the module	None (AUX pin goes LOW then HIGH)

Parameter Byte Format (for C0/C2)

When configuring, send a total of 6 bytes: 1 Command Byte and 5 Parameter Bytes:

1. **HEAD:** *0xC0* (Save) or *0xC2* (Temporary).
2. **ADDH:** High byte of module address (00-FF).
3. **ADDL:** Low byte of module address (00-FF).
4. **SPED:** UART parity, UART baud rate, and Air data rate.
5. **CHAN:** Communication channel ($Frequency = 410M + CHAN * 1M$).
6. **OPTION:** Transmission mode (Fixed/Transparent), IO drive mode, Wake-up time, FEC, and Transmit power.

Example: Reading the Version

To check your module version, send these three bytes in HEX via your serial monitor: *C3 C3 C3*

The module will return 4 bytes, with the second byte typically indicating the frequency (e.g., *0x32* for 433 MHz).

Operational Tip: Monitor the AUX pin; it will go LOW while the module processes a command and return HIGH when it is ready for the next one.

Another Example: High-Performance Configuration (Fixed Transmission)

If you want to use Fixed Transmission (sending to specific addresses) at 115.2kbps UART speed and maximum power (20dBm), send:

Command: *C0 00 01 3F 17 C0*

Byte Breakdown:

- **C0:** Save to EEPROM.
- **00 01:** Sets Module Address to 1.
- **3F:** UART 115200bps, 8N1, Air Data Rate 19.2kbps.
- **17:** Channel 23 (433MHz for 433 series).
- **C0:** Fixed transmission mode, Pull-up enabled, FEC on, 20dBm power.

Another Example: Change Frequency/Channel

To change the module to a different frequency (e.g., 430MHz on a 433MHz module), adjust the 5th byte:

Command: *C0 00 00 1A 14 44***Calculation:** 410M + Channel * 1M. Here, 14 (Hex) = 20 (Dec). So, 410 + 20 = 430MHz

Communication topics on lamaPLC

Page	Date	Tags
• ISM Band	2026/04/23 21:51	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
• lamaPLC Communication: 1-Wire	2026/04/23 21:51	1-wire, communication, bus, microlan, i2c, uart, usart, ds18b20
• lamaPLC Communication: AS-i	2026/04/23 21:51	bus, communication, as-i, basic, industrial ethernet, devicenet, interbus, manchester-ii, apm
• lamaPLC Communication: Bluetooth basic	2026/04/23 21:51	communication, bus, bluetooth, ism, ieee, 802.15.1, ble, lmp, l2cap, rfcomm, iot, arduino, hc-05, hc-06
• lamaPLC Communication: CAN	2026/04/23 21:51	communication, bus, can, canopen, most, automotive ethernet, sent sae-j2716, flexray, lin bus
• lamaPLC Communication: ControlNet	2026/04/23 21:51	bus, communication, devicenet, cip, can, ethernet ip, ethernet, controlnet, mac, peer-to-peer, allen-bradley, rockwell automation, fieldbus, rg-6, coaxial cable
• lamaPLC Communication: DALI	2024/11/16 21:08	communication, rs-232, dali, light technic, diia, selv, manchester, asynchronous, half-duplex, serial, iec 62386, d4i, dali-2, dt6, dt8
• lamaPLC Communication: DASH7	2026/04/23 21:51	bus, communication, dash7, ism, srd, aes 128, d7a, blast, iot, rfid
• lamaPLC Communication: DeviceNet	2024/11/16 20:43	bus, communication, devicenet, 62026-3, cip, can, ethernet ip, ethernet, controlnet, mac, peer-to-peer, canopen, allen-bradley, rockwell automation, bosch
• lamaPLC Communication: DMX512	2024/11/16 01:16	bus, communication, dmx512, dmx512-a, rs-485, xlr3, xlr5
• lamaPLC Communication: EtherNet/IP	2026/04/23 21:51	communication, ethernet, bus, ip, cip, ethernet ip, udp, industrial ethernet, ie, tcp, unicast, devicenet, controlnet, ieee 802.3
• lamaPLC Communication: GPS	2024/11/15 21:15	communication, satellite, navigation, gps, ocx, cdma, glonass, beidou, galileo, qzss, uart, arduino
• lamaPLC Communication: IEC 61850 basic	2026/04/23 21:51	1-wire, communication, bus, xml, iec 61850, iec, ethernet, scl, goose, ied

• lamaPLC Communication: InterBus	2024/11/16 01:46	bus, communication, interbus, phoenix contact, en 50254, iec 61158
• lamaPLC Communication: IoT	2026/04/23 21:51	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
• lamaPLC Communication: I ² C	2025/09/23 21:25	i2c, i c, smbus, philips, bus, communication, arduino
• lamaPLC Communication: KNX / EIB	2026/04/23 21:51	communication, bus, knx, knx tp, knx pl, knx rf, knx ip, eib, ehs, batibus, ethernet, ets
• lamaPLC communication: Matter	2026/04/23 21:51	communication, iot, matter, ethernet, tcp, udp, ipv6, thread, ble, cellular, wifi, pki, ip
• lamaPLC Communication: Modbus	2026/04/23 21:51	modbus, communication, bus, modicon, standard, rtu, tcp, multimaster, coil, register
• lamaPLC Communication: MQTT	2024/11/15 21:28	communication, mqtt, iot, tcp, udp, bluetooth, tcp ip, quic, mqtt-sn, oasis, message broker, mosquitto, qos, arduino, iso iec 20922
• lamaPLC Communication: NFC	2026/04/23 21:51	communication, nfc, rfid, bluetooth, ble, manchester, ask, iso iec 18092
• lamaPLC Communication: NRF24	2024/11/16 02:26	bus, communication, nrf24, ism, ism band, gfsk, rpd, arduino
• lamaPLC Communication: OPC	2024/11/15 21:33	communication, opc, scada, ole, net, xml, tcp, hmi, server, opc ua, opc ua client, mqtt, json, dcom, simatic, erp
• lamaPLC Communication: PowerLink	2026/04/23 21:51	communication, bus, ethernet, tcp, udp, http, powerlink, fast ethernet, opensafety
• lamaPLC Communication: Profibus	2026/04/23 21:51	profibus, profibus pa, profibus dp, communication, fieldbus, bus, iec 61158, iec 61784-1, profinet, rs-485
• lamaPLC Communication: RFID	2026/04/23 21:51	communication, rfid, radio, rf, aidc, prat, arpt, arat, bap, uhf, nfc, em4100, t5557, tag, manchester, fsk, psk, biphasse, nrz
• lamaPLC Communication: RS-232	2026/04/23 21:51	bus, communication, rs-232, rs, basic
• lamaPLC Communication: RS-422	2026/04/23 21:51	bus, communication, rs-422, rs, basic
• lamaPLC Communication: RS-485	2026/04/23 21:51	bus, communication, rs-485, rs, basic, profibus
• lamaPLC Communication: SCADA	2026/04/23 21:51	communication, scada, industry, industrial, hmi
• lamaPLC Communication: Sinec H1	2026/04/23 21:51	communication, bus, fieldbus, sinec-h1, s5, s7, simatic, siemens, industrial ethernet, ie, iec 8073
• lamaPLC Communication: SPI	2026/04/23 21:51	bus, communication, spi, basic, arduino, ssi, sdi, miso, sdo

• lamaPLC Communication: TCP / UDP Basic	2025/11/20 22:49	communication , bus , tcp , udp , tcp ip , darpa , ietf , smtp , http , https , ftp , ftps , ssh , pop3 , imap , mysql , cpanel , whm , ssl , webmail , mqtt , ethernet , ip
• lamaPLC communication: Thread	2024/11/15 23:07	bus , communication , matter , thread , matter over thread , zigbee , aes , ipv6 , iot , 6lowpan , ethernet , wifi
• lamaPLC Communication: UART / USART basic	2026/04/23 21:51	bus , communication , uart , rs-232 , rs-422 , rs-485
• lamaPLC Communication: USB	2026/04/23 21:51	usb , usb otg , otg , msc , ums , mtp , dfu , uac , adc , communication , bus , basic
• lamaPLC Communication: Wi-Fi	2026/04/23 21:51	communication , iot , internet , wi-fi , wifi , ieee 802.11
• lamaPLC Communication: Wiegand	2026/04/23 21:51	wiegand , communication , interface , cr80 , iec 7810 , h10301 , hid , wiegand 26 , wiegand 32 , wiegand 34 , wiegand 35 , wiegand 37 , wiegand 38 , wiegand 42
• lamaPLC Communication: WS2812	2024/11/16 00:36	bus , communication , ws2812 , ws2812b , ws 2812 , ws 2812 b , 5050smd , 4020 , 2020 , 3535 , 5050 , nzt , rgb chip , led , arduino , rgb
• lamaPLC Communication: Z-Wave	2026/04/23 21:51	communication , ethernet , bus , ip , z-wave , ism
• lamaPLC Communication: Zigbee	2026/04/23 21:51	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	2026/03/22 03:14	communication , i2c , temperature , humidity , sensor , aht , aht 10 , modul
• lamaPLC: AI-Thinker LoRA products	2026/04/23 21:51	ai-thinker , lora manufacturer , communication , lora , modul , ra-01 , ra-02 , spi , arduino
• LamaPLC: APDS - Avago ALS and proximity detection sensors with I²C communication	2026/04/23 21:52	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 23:50	communication , i2c , as5600 , as-5600 , magnetic , induction , angle , sensor
• LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I²C communication	2026/04/23 21:52	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	2026/03/06 01:19	cjmcu-164 , sn74hc164d , 8-bit shift register , communication , 7-segment , cjmcu , arduino
• LamaPLC: CJMCU-219/INA-219 breakout board/IC with I²C communication	2026/04/23 21:52	cjmcu-219 , ina-219 , ina219 , breakout board , i2c , communication , sensor , voltage , current , arduino , code , cjmcu

<ul style="list-style-type: none"> • LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I²C communication 	2026/04/23 21:52	cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication
<ul style="list-style-type: none"> • LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication 	2026/04/23 21:52	cjmcu-3901, cjmcu, pmw3901, pmw-3901, optical flow, sensor, pixart, spi, communication, arduino, code, pmw3901mb-txqt
<ul style="list-style-type: none"> • LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication 	2026/04/23 21:52	cjmcu, cjmcu-6701, acs758, acs-758, galvanic skin response, gsr, electrodermal activity, eda, spi, communication, arduino, code, sensor, healthcare
<ul style="list-style-type: none"> • LamaPLC: DPS Infineon Temperature/Pressure sensors with I2C communication 	2026/04/23 21:52	dps310, infineon, temperature, pressure, sensor, arduino, i2c, communication, code
<ul style="list-style-type: none"> • lamaPLC: DS18B20 1-Wire Digital Thermometer 	2026/04/23 21:52	ds18b20, sensor, 1-wire, communication, arduino, thermometer, parasitic mode
<ul style="list-style-type: none"> • lamaPLC: Ebyte LoRA products 	2026/04/23 21:51	ebyte, lora manufacturer, communication, lora, modul
<ul style="list-style-type: none"> • lamaPLC: Energy, power, current, and voltage 	2025/05/31 23:32	i2c, i c, communication, arduino, energy, power, current, sensor, ina226
<ul style="list-style-type: none"> • LamaPLC: ENS ScioSense Multi-gas sensors with I²C communication 	2026/04/23 21:52	ens160, sciosense, gas-quality, i2c, communication, sensor, arduino, code, eco2, tvoc, aqi, indoor air quality, iaq, co2, voc
<ul style="list-style-type: none"> • lamaPLC: ESP32 / ESP8266 	2025/11/22 00:07	esp8266, esp32, esp32-c2, esp32-c3, esp32-c5, esp32-c6, esp32-c61, esp32-h2, esp32-s2, esp32-s3, esp32-p4, espressif systems, communication, ethernet, ip, wi-fi, thread, zigbee, matter, homekit, bluetooth, mqtt, adc, spi, uart, i2c, i2s, rmt, pwm, usb, usb otg, twai gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2
<ul style="list-style-type: none"> • LamaPLC: Gas sensors 	2023/07/01 17:29	ak8963, gy-9250, mpu-9250, 9-axis, motion detection, magnetometer, communication, i c, i2c, spi
<ul style="list-style-type: none"> • LamaPLC: GY-9250 MPU-9250/6500 9-axis Attitude Sensor Board 	2026/04/23 21:52	sht21, htu21, si7021, gy-21, gy-213v, hdc1080, gy-213v-hdc1080, cjmcu, cjmcu-1080, texas instruments, temperature, humidity, sensor, i2c, communication, arduino, code
<ul style="list-style-type: none"> • LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I²C communication 	2026/04/23 21:52	

• LamaPLC: HTU TE Connectivity temperature/humidity sensors with I²C communication	2026/04/23 21:52	htu , htu31d , htu21d , htu20d , sht20 , htu20 , sht21 , htu21 , si7021 , gy-21 , gy-213v , hdc1080 , si702 , gy-20 , sht31 , htu31 , si7031 , gy-31 , te connectivity , temperature , humidity , i2c , communication , sensor , arduino , code
• LamaPLC: HX711 24-bit analog-to-digital converter (ADC)	2026/04/11 18:28	hx711 , hx-711 , analog-to-digital , adc , converter , load cell , wheatstone bridge , weight , sensor , communication , arduino , code
• lamaPLC: INA modules with Arduino libraries	2026/04/11 19:54	i2c , i c , communication , arduino , energy , power , current , monitor , sensor , ina219 , gy-219 , ina226 , gy-216 , ina228 , gy-228 , ina237 , ina238 , ina260 , ina3221 , ina
• lamaPLC: INA226 - current/voltage/power monitor with I²C communication	2026/04/23 21:52	i2c , i c , communication , arduino , energy , power , current , monitor , sensor , ina226 , ina219 , ina
• lamaPlc: Industrial Ethernet (IE) Basic	2026/04/23 21:51	communication , bus , ethernet , industrial ethernet , ie , ethercat , ethernet ip , profinet , powerlink , sercos , iii , cc-link , modbus tcp , ieee , rstp , stp
• lamaPLC: LCD 1602/2004 with I²C communication	2026/02/14 18:27	communication , i2c , display , lcd , 1602 , 2004 , hd44780 , pcf8574 , pcf8574t , pcf8574at , arduino
• lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC	2026/04/23 21:52	communication , arduino , sensor , energy harvesting , energy , ambient power
• LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module	2026/04/23 21:52	max30102 , max30100 , heart rate click , sensor , communication , i2c , arduino , code
• lamaPLC: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I²C / SPI	2026/04/23 21:52	communication , i2c , mcp23017 , mcp23s17 , spi , i o expander , serial , cjmcu-2317 , cjmcu
• LamaPLC: MH-Z19 series of NDIR CO₂ sensors	2026/04/23 21:52	mh-z19 , mh-z19d , mh-z19c , mh-z19b , mh-z19e , ndir , co₂ , sensor , winsen , uart , pwm , communication , non-dispersive infrared , infrared , ir , temperature , arduino , code , tasmota
• LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I²C communication	2026/04/23 21:52	paj7620u2 , gy-paj7620 , pixart , gesture recognition , i2c , communication , sensor , arduino , code
• lamaPlc: Profinet	2026/04/23 21:51	communication , bus , profinet , mrp , rstp , gsdml , xml , profibus , ethernet , tcp
• lamaPLC: PTA8C04 4-channel PT100 Modbus Modul	2026/02/14 18:42	pta8c04 , sensor , modbus , rtu , rs-485 , communication , platine , um72
• LamaPLC: S7-1500 and Metrawatt EM2389 Modbus TCP communication	2026/04/23 21:52	simatic , s7 , modbus , communication , metrawatt , em2389 , source code , scl , mid
• LamaPLC: S7-1500 and Sicam Q200 Modbus TCP communication	2026/04/23 21:52	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 23:24	bus, communication, s7, simatic, s7 1500, s7 1200, scl, uicpal, temperature, humidity, modbus, example, download, tia portal
• LamaPLC: SGP Sensirion TVOC/VOC sensors with I²C communication	2026/04/15 19:41	sgp30, sgp40, sgp41, sensirion, gas-sensor, i2c, communication, sensor, arduino, code, eco2, voc, tvoc, indoor air quality, iaq, nox, hydrogen
• LamaPLC: SHT Sensirion Temperature/humidity sensor with I²C communication	2026/04/23 21:52	sht20, sht21, sht25, sht30, sht31, sht35, sht40, gy21, temperature, humidity, i2c, communication, sensor, arduino, code
• lamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I²C Switch Module	2026/02/14 23:51	tca9548a, hw617, i2c, switch, communication, expansion board, arduino
• LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication	2026/04/23 21:52	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 I²C communication	2026/04/23 21:52	tof050c, vl6180, tof200c, vl53l0x, tof400c, vl53l1x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
• lamaPLC: TWAI basics	2026/04/23 21:51	bus, communication, as-i, basic, can, twai, espressif, esp32
• LamaPLC: UICPAL Temp.humi.sensor	2023/06/25 00:43	simatic, s7, modbus, communication, temperature, humidity, sensor
• LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I²C 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 I²C communication	2026/04/23 21:52	vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
• lamaPLC: Waveshare LoRA products	2026/03/07 01:46	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 16:52	xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter
• lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication	2026/02/15 00:00	communication, modbus, rtu, sensor, weight, yr-3180, hx710b, arduino, ttl, rs-485
• Magnetic angle sensors	2026/03/05 21:19	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 18:49	nt18b07, sensor, modbus, rtu, rs-485, communication, platine

- [Simatic Modbus S7 error- and statuscodes](#) 2026/04/23 21:52 [communication, bus, modbus, error, modbus error code, 7000, 7001, 7002, 7003, 7004, 7005, 7006, 80a1, simatic, s7, siemens, tia](#)
- [Waveshare](#) 2026/04/23 21:52 [waveshare, converter, modbus, modbus rtu, modbus tcp, communication](#)
- [XTM35SC current / voltage meter](#) 2026/04/23 21:52 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)

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