

# lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC

**Energy harvesting** (*EH*) – also known as power harvesting, energy scavenging, or ambient power – is the process by which energy is derived from external sources (e.g., *solar power*, *thermal energy*, *wind energy*, *salinity gradients*, and *kinetic energy*, also known as *ambient energy*), then stored for use by small, wireless autonomous devices, like those used in wearable electronics, condition monitoring, and wireless sensor networks.



Energy harvesters typically deliver only a small amount of power to low-power electronics. While the input fuel for some large-scale energy generation requires resources (oil, coal, etc.), the energy source for energy harvesters is ambient. For example, temperature gradients are generated by a combustion engine, and in urban areas, the environment contains significant electromagnetic energy due to radio and television broadcasting.

One of the first examples of ambient energy being used to produce electricity was the successful use of electromagnetic radiation (EMR) to generate the crystal radio.



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## LTC-3588 Features

**V<sub>IN</sub>**: -0.3V to 18V (has an internal 20V clamp)

**I<sub>SW</sub>**: 0A .. 25mA

**PZ1, PZ2**: 0V .. V<sub>IN</sub>

**D0, D1**: -0.3V .. [Lesser of (V<sub>IN2</sub> + 0.3V) or 6V]

**CAP**: [Higher of -0.3V or (V<sub>IN</sub> - 6V)] .. V<sub>IN</sub>

**V<sub>IN2</sub>**: -0.3V .. [Lesser of (V<sub>IN</sub> + 0.3V) or 6V]

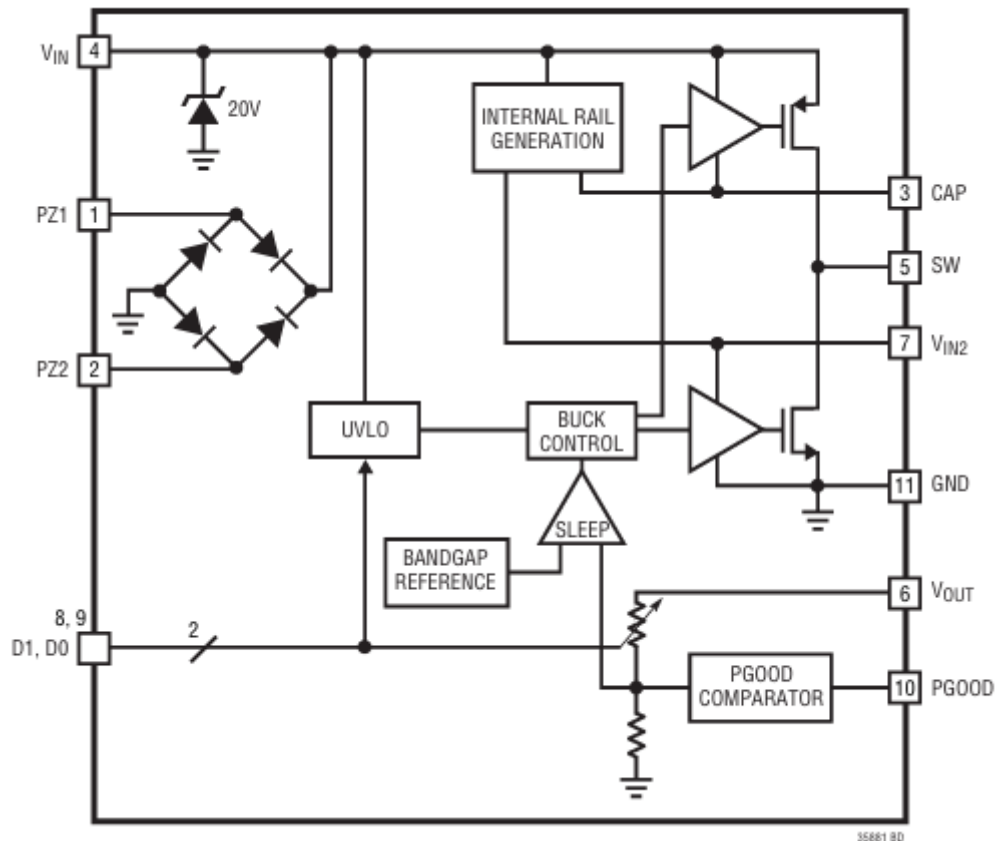
**V<sub>OUT</sub>**: -0.3V .. Lesser of (V<sub>IN2</sub> + 0.3V) or 6V

**PGOOD**: -0.3V to Lesser of (V<sub>OUT</sub> + 0.3V) or 6V

The primary differences between the LTC3588-1 and the LTC3588-2 are their selectable output-voltage ranges and input undervoltage lockout (UVLO) thresholds, which optimize each for different input sources.

Feature	LTC3588-1	LTC3588-2
Selectable Output Voltages	1.8V, 2.5V, 3.3V, or 3.6V	3.45V, 4.1V, 4.5V, or 5.0V
Input Operating Range	2.7V to 20V	14V to 20V
UVLO Rising Threshold	Lower (e.g., ~3.8V in testing)	Higher (16V)
Quiescent Current (in UVLO)	450nA	830nA (at VIN=12V)
Quiescent Current (in regulation)	950nA	1500nA (at VIN=18V)

## Pin functions

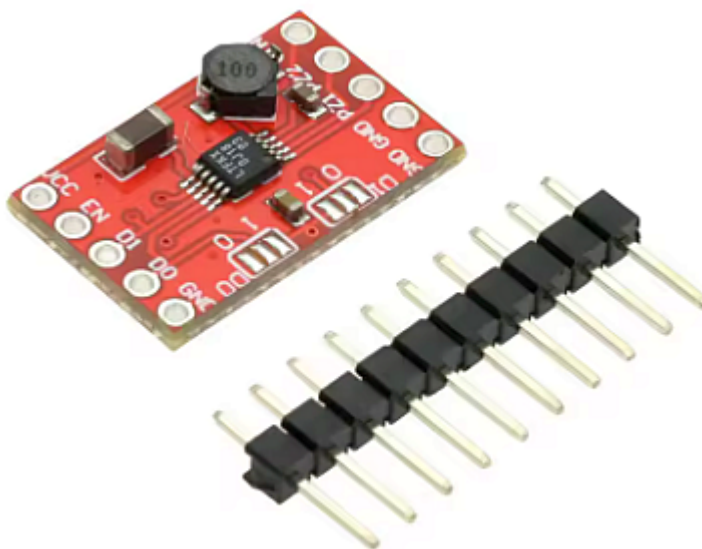


- **PZ1 (Pin 1):** Input connection for piezoelectric element or other AC source (used in conjunction with PZ2).
- **PZ2 (Pin 2):** Input connection for piezoelectric element or other AC source (used in conjunction with PZ1).
- **CAP (Pin 3):** Internal rail referenced to VIN to serve as gate drive for buck PMOS switch. A 1 $\mu$ F capacitor should be connected between CAP and VIN. This pin is not intended for use as an external system rail.
- **VIN (Pin 4):** Rectified Input Voltage. A capacitor on this pin serves as an energy reservoir and input supply for the buck regulator. The VIN voltage is internally clamped to a maximum of 20V (typical).
- **SW (Pin 5):** Switch Pin for the Buck Switching Regulator. A 10 $\mu$ H or larger inductor should be connected from SW to VOUT.
- **VOUT (Pin 6):** Sense pin used to monitor the output voltage and adjust it through internal feedback.
- **VIN2 (Pin 7):** Internal low voltage rail to serve as gate drive for buck NMOS switch. Also serves as a logic-high rail for the output-voltage select bits D0 and D1. A 4.7 $\mu$ F capacitor should be connected from VIN2 to GND. This pin is not intended for use as an external system rail.

- **D1 (Pin 8):** Output Voltage Select Bit. D1 should be tied high to VIN2 or low to GND to select the desired VOUT (see Table 1).
- **D0 (Pin 9):** Output Voltage Select Bit. D0 should be tied high to VIN2 or low to GND to select the desired VOUT (see Table 1).
- **PGOOD (Pin 10):** Power good output is logic high when VOUT is above 92% of the target value. The logic high is referenced to the VOUT rail.
- **GND (Exposed Pad Pin 11):** Ground. The Exposed Pad should be connected to a continuous ground plane on the second layer of the printed circuit board by several vias directly under the LTC3588-1.

## LTC-3588 Nanopower Energy Harvesting Power Supply

The **LTC®3588-1** integrates a low-loss full-wave bridge rectifier with a high-efficiency buck converter to form a complete energy-harvesting solution optimized for high-output-impedance energy sources such as piezoelectric, solar, or magnetic transducers. An **ultralow quiescent current undervoltage lockout (UVLO)** mode with a wide hysteresis window allows charge to accumulate on an input capacitor until the buck converter can efficiently transfer a portion of the stored charge to the output.

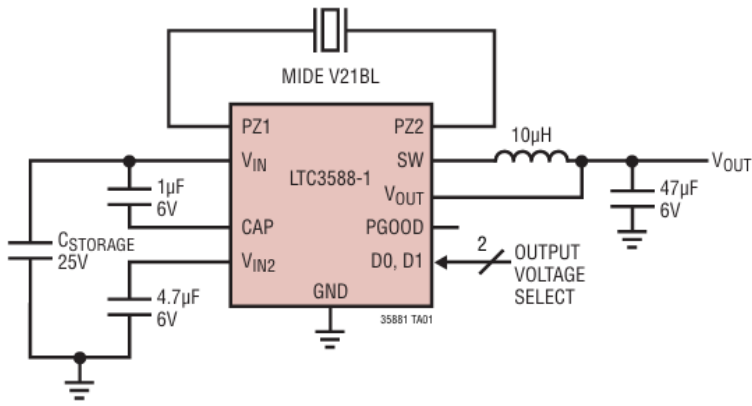


In regulation, the LTC3588-1 enters a sleep state in which both input and output quiescent currents are minimal. The buck converter turns on and off as needed to maintain regulation. Four output voltages, 1.8V, 2.5V, 3.3V, and 3.6V, are pin selectable with up to 100mA of continuous output current; however, the output capacitor may be sized to service a higher output current burst.

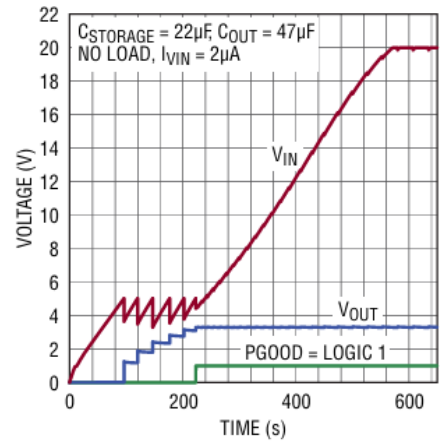
An input protective shunt set to 20V enables greater energy storage for a given input capacitance.

## Typical application

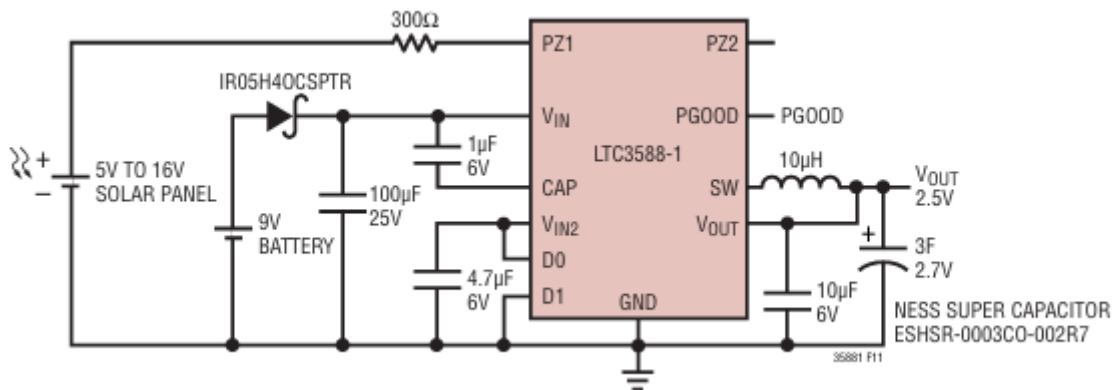
### 100mA Piezoelectric Energy Harvesting Power Supply



### LTC3588-1 3.3V Regulator Start-Up Profile

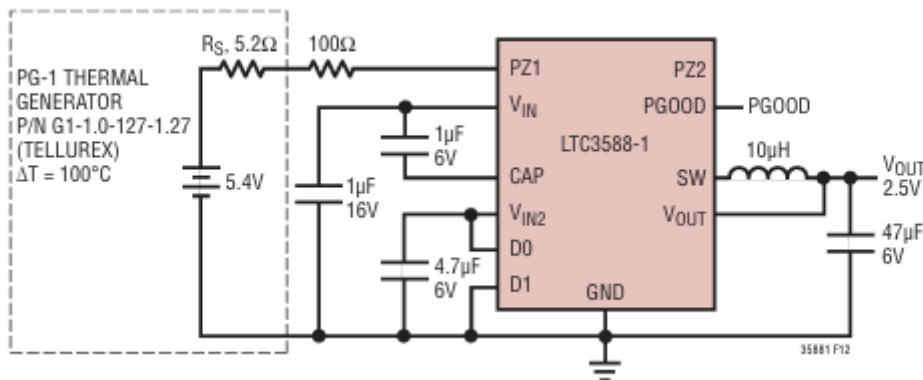


### LTC-3588 with Solar-Powered 2.5V Supply



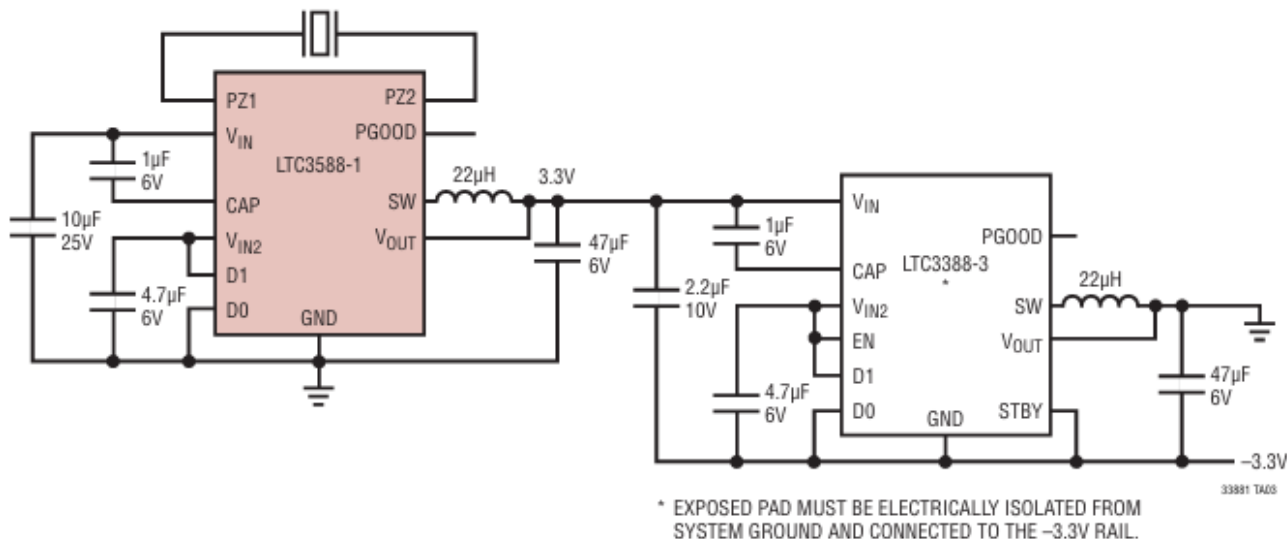
5V to 16V Solar-Powered 2.5V Supply with Supercapacitor for Increased Output Energy Storage and Battery Backup

### LTC-3588 with Thermoelectric



Thermoelectric Energy Harvester

### LTC-3588 with Piezoelectric



Piezoelectric Energy Harvester with ±3.3V Outputs

More information: <https://www.analog.com/en/products/ltc3588-1.html>

## Sensor topics on lamaPLC

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<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Arduino - Vibration sensors</a></li> </ul>	2026/04/15 17:21	<a href="#">vibration</a> , <a href="#">sensor</a> , <a href="#">piezoelectric</a> , <a href="#">mems</a> , <a href="#">eddy-current</a> , <a href="#">electrodynamic</a> , <a href="#">gxfm0459</a> , <a href="#">ldtm-028k</a> , <a href="#">arduino</a> , <a href="#">arduino code</a>
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• <a href="#">lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module</a>	2026/03/28 23:50	<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: 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="#">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="#">cjmcu</a>
• <a href="#">LamaPLC: BQ25570 / CJMCU-2557 - Texas Instruments nano-power management IC and module</a>	2026/04/23 21:52	<a href="#">bq25570</a> , <a href="#">sensor</a> , <a href="#">texas instruments</a> , <a href="#">nano-power management</a> , <a href="#">dc-dc boost charger</a> , <a href="#">mppt</a> , <a href="#">solar</a> , <a href="#">thermoelectric</a> , <a href="#">piezoelectric</a> , <a href="#">energy harvesting</a> , <a href="#">eh</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-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication</a>	2026/04/23 21:52	<a href="#">cjmcu-3901</a> , <a href="#">cjmcu</a> , <a href="#">pmw3901</a> , <a href="#">pmw-3901</a> , <a href="#">optical flow</a> , <a href="#">sensor</a> , <a href="#">pixart</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">pmw3901mb-txqt</a>
• <a href="#">LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication</a>	2026/04/23 21:52	<a href="#">cjmcu</a> , <a href="#">cjmcu-6701</a> , <a href="#">acs758</a> , <a href="#">acs-758</a> , <a href="#">galvanic skin response</a> , <a href="#">gsr</a> , <a href="#">electrodermal activity</a> , <a href="#">eda</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">sensor</a> , <a href="#">healthcare</a>
• <a href="#">LamaPLC: CJMCU-6814 combined gas sensor module for CO, NO<sub>2</sub>, NH<sub>3</sub></a>	2026/04/23 21:52	<a href="#">analog</a> , <a href="#">cjmcu</a> , <a href="#">cjmcu-6814</a> , <a href="#">mics6814</a> , <a href="#">mics-6814</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">carbon monoxide</a> , <a href="#">co</a> , <a href="#">ammonia</a> , <a href="#">nh<sub>3</sub></a> , <a href="#">nitrogen dioxide</a> , <a href="#">no<sub>2</sub></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="#">LamaPLC: CJMCU-8221 Analog Devices Precision instrumentation amplifier module</a>	2026/04/23 21:52	<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="#">cjmcu-8221</a> , <a href="#">ad8221ar</a> , <a href="#">analog devices</a> , <a href="#">amplifier</a> , <a href="#">sensor</a> , <a href="#">cjmcu</a>
• <a href="#">LamaPLC: DHT Temperature /Humidity sensors with 1-wire / 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="#">dht11</a> , <a href="#">dht20</a> , <a href="#">dht22</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">1-wire</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">lamaPLC: DS18B20 1-Wire Digital Thermometer</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="#">ds18b20</a> , <a href="#">sensor</a> , <a href="#">1-wire</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">thermometer</a> , <a href="#">parasitic mode</a>

• lamaPLC: Energy, power, current, and voltage	2025/05/31 23:32	i2c, i c, communication, arduino, energy, power, current, sensor, ina226
• LamaPLC: ENS ScioSense Multi-gas sensors with I <sup>2</sup> C communication	2026/04/23 21:52	ens160, sciosense, gas-quality, i2c, communication, sensor, arduino, code, eco2, tvoc, aqi, indoor air quality, iaq, co2, voc
• lamaPLC: ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module	2026/04/23 21:52	arduino, ens160, aht21, air quality, sensor, co, eco, tvoc, module, aqi
• LamaPLC: Gas sensors	2023/07/01 17:29	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
• LamaPLC: GM MEMS Gas-sensors	2026/04/23 21:52	gm-102b, gm-302b, gm-502b, gm-702b, mems, gas-quality, sensor, arduino, code, nitrogen dioxide, no2, volatile organic compounds, voc, carbon monoxide, co, ethyl alcohol, c2h5ch, formaldehyde, ch2o, alcohol, c2h5oh
• lamaPLC: GY-511 6DOF sensor module	2026/03/22 01:44	stmicroelectronics, lsm303dlhc, i2c, lsm303, sensor, gy-511, 6dof, pololu, module, arduino
• LamaPLC: HC-SR04 Ultrasonic Sensor Module	2026/04/23 21:52	hc-sr04, ultrasonic, sensor, arduino, code
• LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I <sup>2</sup> C communication	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
• LamaPLC: HTU TE Connectivity temperature/humidity sensors with I <sup>2</sup> C 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 I <sup>2</sup> C communication	2026/04/23 21:52	i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina

• <a href="#">lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC</a>	2026/04/23 21:52	communication, arduino, sensor, energy harvesting, eh, energy, ambient power
• <a href="#">LamaPLC: M01 - V0.4 Laser ranging sensor with UART communication</a>	2026/04/23 21:52	distance measurement, laser, distance, sensor, m01
• <a href="#">LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module</a>	2026/04/23 21:52	max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code
• <a href="#">lamaPLC: Max31865 RTD to Digital Converter - PT100/PT1000 Platine</a>	2026/04/23 21:52	max31865, rtd, pt 100, pt 1000, temperature, spi, platinum, arduino, code, sensor, adafruit
• <a href="#">LamaPLC: MAX4466/MAX9814: Low-noise Microphone Preamplifiers</a>	2026/04/23 21:52	audio, microphone, analogue audio, max4466, max9814, max 4466, max 9814, agc, preamplifiers, sensor, arduino, code
• <a href="#">LamaPLC: MH-Z19 series of NDIR CO<sub>2</sub> sensors</a>	2026/04/23 21:52	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
• <a href="#">lamaPLC: MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device</a>	2026/04/23 21:52	mpu-6050, hw-123, gy-521, 6-axis motiontracking, dmp, temperature, sensor, mems, arduino code, arduino, accelerometer, gyroscope, tilt
• <a href="#">LamaPLC: MQ Winsen Gas-sensors</a>	2026/04/23 21:52	mq, mq-2, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-131, mq-135, mq-137, winsen, gas-sensor, sensor, arduino, code, alcohol, c <sub>2</sub> h <sub>5</sub> oh, benzine gas, smoke, lpg, propane, c <sub>3</sub> h <sub>8</sub> , hydrogen, h <sub>2</sub> , methane, ch <sub>4</sub> , iso-butane, town gas, ammonia, nh <sub>3</sub>
• <a href="#">LamaPLC: PIR sensors</a>	2026/04/23 21:52	hc-sr501, hc-sr505, am-312, ekmb ekmc, pir, motion, sensor, arduino, code
• <a href="#">LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I<sup>2</sup>C communication</a>	2026/04/23 21:52	paj7620u2, gy-paj7620, pixart, gesture recognition, i2c, communication, sensor, arduino, code
• <a href="#">lamaPLC: PT100 / PT1000</a>	2025/09/23 18:59	pt100, pt1000, temperature, sensor, platine, rtd
• <a href="#">lamaPLC: PTA8C04 4-channel PT100 Modbus Modul</a>	2026/02/14 18:42	pta8c04, sensor, modbus, rtu, rs-485, communication, platine, um72
• <a href="#">LamaPLC: RCWL - Microwave radar sensor</a>	2026/04/23 21:52	rcwl-0516, rcwl, microwave, radar, sensor, arduino, code
• <a href="#">lamaPLC: RD-xx - Ai-Thinker Radar Module with UART communication</a>	2026/04/23 21:52	radar, s3km1110, fmcw, rd-01, rd-03, rd-03d, ai-thinker, k-band, 24 ghz, sensor, distance, micro-movements
• <a href="#">LamaPLC: SGP Sensirion TVOC/VOC sensors with I<sup>2</sup>C communication</a>	2026/04/15 19:41	sgp30, sgp40, sgp41, sensirion, gas-sensor, i2c, communication, sensor, arduino, code, eco <sub>2</sub> , voc, tvoc, indoor air quality, iaq, nox, hydrogen
• <a href="#">LamaPLC: SHT Sensirion Temperature/humidity sensor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	sht20, sht21, sht25, sht30, sht31, sht35, sht40, gy21, temperature, humidity, i2c, communication, sensor, arduino, code

<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication</a></li> </ul>	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
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	tof050c, vl6180, tof200c, vl53l0x, tof400c, vl53l1x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: UICPAL Temp.humi.sensor</a></li> </ul>	2023/06/25 00:43	simatic, s7, modbus, communication, temperature, humidity, sensor
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	vl53l0x, vl53l1x, vl53l0 1xv2, gy-530, time-of-flight, tof, laser-ranging, i2c, communication, sensor, arduino, code
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: Waveshare TOF Laser Range Sensor with UART / I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	distance measurement, laser, range, sensor, tof, waveshare
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication</a></li> </ul>	2026/02/15 00:00	communication, modbus, rtu, sensor, weight, yr-3180, hx710b, arduino, ttl, rs-485
<ul style="list-style-type: none"> <li>• <a href="#">Magnetic angle sensors</a></li> </ul>	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
<ul style="list-style-type: none"> <li>• <a href="#">NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU</a></li> </ul>	2026/02/14 18:49	nt18b07, sensor, modbus, rtu, rs-485, communication, platine
<ul style="list-style-type: none"> <li>• <a href="#">PT100 / PT1000 sensors</a></li> </ul>	2026/04/23 21:52	rtd, pt100, pt1000, sensor, temperature
<ul style="list-style-type: none"> <li>• <a href="#">Radar Module RD-xx</a></li> </ul>	2026/04/23 21:52	radar, s3km1110, fmcw, rd-03, k-band, 24 ghz, sensor, distance, micro-movements

[communication](#), [Arduino](#), [sensor](#), [energy harvesting](#), [energy](#), [ambient power](#)

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