# LamaPLC: LTC3108-1 Ultra Low Voltage Boost Converter Power Manager Breakout Development Board

The LTC3108-1 is a compact, ultralow-voltage step-up DC/DC converter and power manager from Analog Devices, engineered to harvest energy from sources as low as 20 mV, including thermoelectric generators (TEGs) and small solar cells.
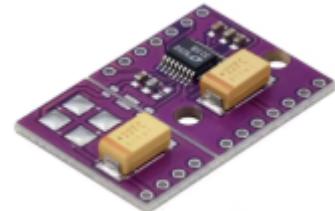
Key Features and Specifications

- **Ultralow Start-Up Voltage:** Operates from input voltages as low as 20mV (with a 1:100 transformer ratio), making it suitable for very low-power sources.
- **Power Management:** Provides a complete solution for wireless sensing and data acquisition, including surplus energy management to a storage capacitor or rechargeable battery.
- **Selectable Main Output (VOUT):** The main output is programmable to one of four fixed voltages using external pins (VS1 and VS2): 2.5V, 3V, 3.7V, or 4.5V. This differs from the standard LTC3108, which offers 2.35V, 3.3V, 4.1V, or 5V options.
- **Integrated LDO:** Includes a 2.2V LDO (low dropout regulator) capable of supplying up to 3mA to power an external microprocessor.
- **Additional Outputs:** Features a second logic-controlled output (VOUT2) and a reserve energy output (VSTORE) for backup power.
- **Power Good Indicator:** A PGOOD indicator pin signals when the main output voltage is within regulation.
- **Extremely Low Quiescent Current:** Ensures fast charging of the output reservoir capacitor.

Arduino wiring

- SCL: A5
- GND: GND
- SDA: A4
- Vdd: 5V

Arduino code

```
sample
```

Example codes

BMP280, AHT20, Adafruit, temperature, humidity, pressure, sensor, arduino, code

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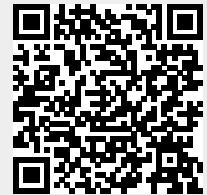
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