

OOT550-DL3B2

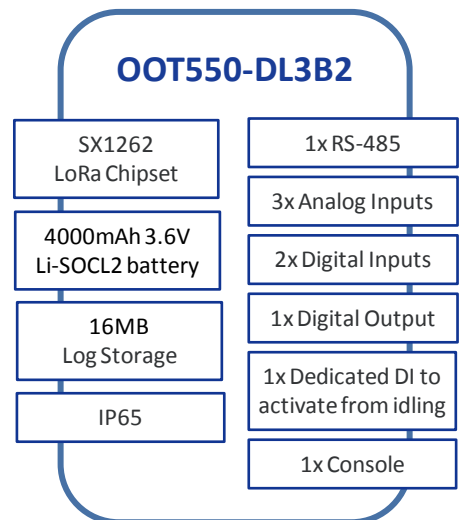
Outdoor LoRa Data Logger



The OOT550 is a cost-effective solution for data acquisition and wireless telemetry. It leverages LoRaWAN technology that is optimized for sending IoT traffic with low data rates over long distances. Thanks to the power saving technology, the OOT550 has ultra-low power consumption which allows it to operate on a single battery for years. Based on open source LoRaWAN standard it has high interoperability between devices and networks.

Applications:

- AMI/AMR: gas, water
- Smart Infrastructure: street lighting, parking, waste management
- Precision agriculture and farming
- Industrial sensors



Battery-powered & easy deploy

- Battery-powered with health alert
- Ext. power supply opt. for heavy loads

LoRaWAN technology

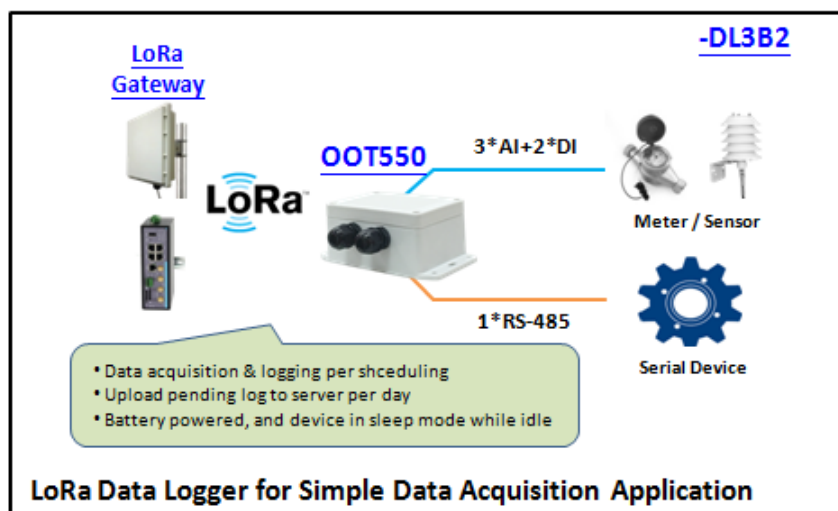
- Low power, low data rates
- Long range communication

Ingress Protection (IP65)

- Harsh environments, wide t° range
- Weatherproof design for moist sites

Data acquisition

- AI/DI/Modbus_RTU for sensors/meters
- Logged data storage, Regular uplink



Specification Summary

Device Interface

- **LoRa Chipset:** SX1262
- **Log Storage:** 16MB internal storage for data logging
- **I/O Connector:** 2* M16 waterproof connectors with 2-hole cable gland for wiring the required ports to external sensors/meters.

Available H/W Ports

- **Analog Input:** 3* AI ports (non-Isolated, 0.1% precision)
Emulated DI Mode ("1": above 1.5V, '0": below 1.5V, or Floating), reserved (provided when FW ready)
Voltage Mode (AI1~2: 0-10V, AI3: 0~20V)
Current Mode (AI1~3: 4-20mA)
- **Digital Input:** 2* DI ports (3.75KV Isolated)
Level mode ("1": 2V ~ 25V, '0": 0V ~ 1V, or Floating)
Pulse Counter Mode
- **Digital Output:** 1* DO port (3.75KV Isolated, non-relayed, 24V/300mA)
- **Field Bus:** 1* RS485 (non-Isolated) for Modbus RTU Protocol
- **Console Port:** 1* UART for device configuration
- **Wake-up Port:** 1* wake-up port for device wake-up triggering.
- **Power Source :** 4000mAh 3.6V Li-SOCL2 battery, or external 5V~12V DC power.
- **Antenna :** 1* LoRa antenna

WAN & Uplink

- **Uplink:** LoRa, support standard [LoRaWAN™](#) protocol and Class A/C.
- **Connection:** By Interval

Field Comm.

- **Modbus:** Master for accessing attached Modbus RTU Slaves (Upto to 3 Modbus devices supported)

Administration

- **Configuration:** Windows Utility, Console CLI via USB-to-Serial console cable, or Bluetooth wireless
- **System:** Backup & Restore, Reboot & Reset, SysLog, Upgrade

Environment

- **OP/Storage Temp.:** -30°C ~ 70°C ; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Plastic(PC, UL-94V2), Bracket Mount
- **Dimension:** 105x 75x55mm (Enclosure only); 132x103x55mm (including Cable Gland, Brackets);

Certificate - CE

- Standards & Regulation
- EMI: EN 55032: 2015 +AC: 2016 Class B
- EMS: EN 55024, IEC 61000
- Radio: EN 300 220, EN 301 489
- Safety: EN 60950-1, EN 62368-1

Package Accessory

- 1* Device
- 1* 4000mAh 3.6V Li-SOCL2 Battery (for –DL3B2)
- 2* Cable Tie for fixing battery (for –DL3B2)
- 3* Jumper for AI current mode setting
- 3* Water&dust-proof Stopper

Optional Accessory (separate order required)

- USB-to-Serial Console Cable

SKU Information:

OOT550-DL3B2-00-yy : LoRa Data Logger, with Battery

'yy': Area Variant. As below table

yy	SKU	Band / Channel	Channel Plan	System Cert.
E0	EU	863 - 870 MHz	EU863-870	TBC
U0	US	902 - 928 MHz	US902-928	TBC
A0	AS	920 - 925 MHz	AS923	TBC
J0	JP	920.6 - 928 MHz	AS923-1	TBC

Comment:

- Specifications are subject to change without prior notice.
- Besides CE, other regional certification needs to be checked for availability.

Mechanic Drawing

• Top View



• Side View



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