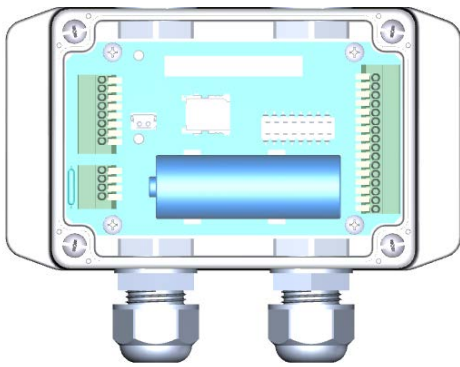


IOT400-DL3B1 / IOT400-DL301 LoRa Node

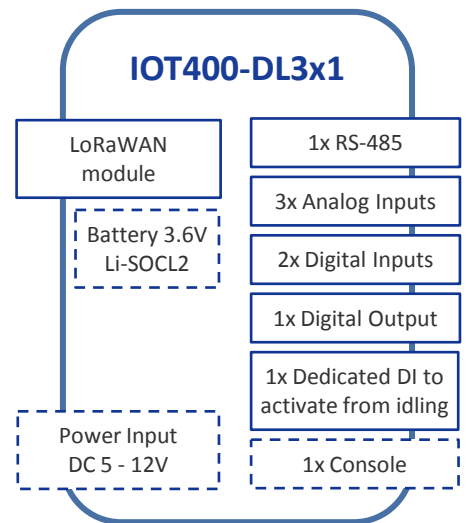


The IOT400 is a cost-effective solution for data acquisition and wireless telemetry. It leverages LoRaWAN technology that is optimized for sending IoT traffic with low data rates over long distances. Thanks to the power saving technology, the IOT400 has ultra-low power consumption which allows it to 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)

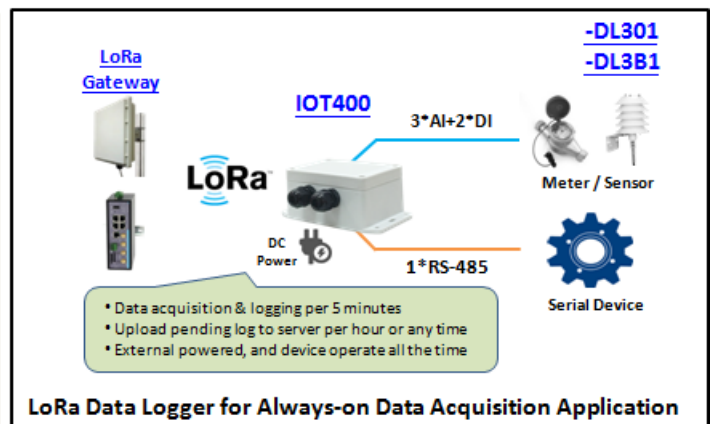
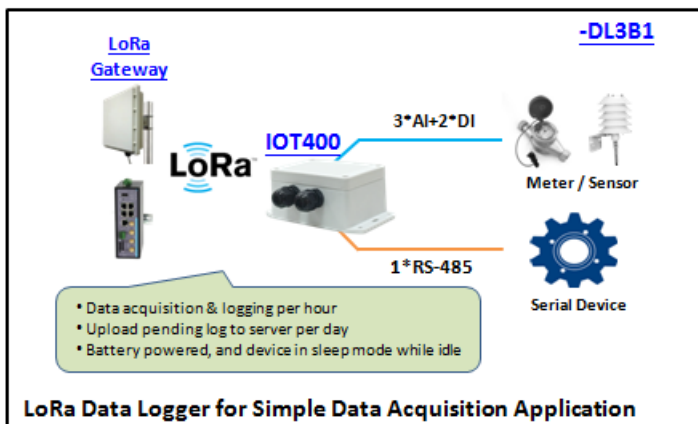


- Harsh environments, wide t° range
- Weatherproof design for moist sites

Data acquisition



- AI/DI/Modbus_RTU for sensors/meters
- Scheduled uplink



Specification Summary

Device Interface

- **LoRa Module:** 1* LoRa module
- **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 (supports 0-10V / 4-20mA)
- **Digital Input:** 2* DI ports (isolated, supports Pulse Counter, Dry Contact)
- **Digital Output:** 1* DO port (isolated, Non-Relayed Output)
- **Field Bus:** 1* RS-485 for Modbus RTU/ASCII
- **Console Port:** 1* RS232 for device configuration
- **Wake-up Port:** 1* internal Reed Switch, and reserved wake-up port for device wake-up triggering.
- **Power Source :** 3000~4000mAh 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/ASCII 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 –DL3B1)
- 2*Cable Tie for fixing battery (for –DL3B1)
- 3* Jumper for AI current mode setting
- 3* Water&dust-proof Stopper

Optional Accessory (separate order required)

- USB-to-Serial Console Cable
- Bluetooth Module for wireless Configuration

SKU Information:

IOT400-DL3B1-00-yy : LoRa Node, with Battery

IOT400-DL301-00-yy : LoRa Node, without Battery

'yy': Area Variant. As below table

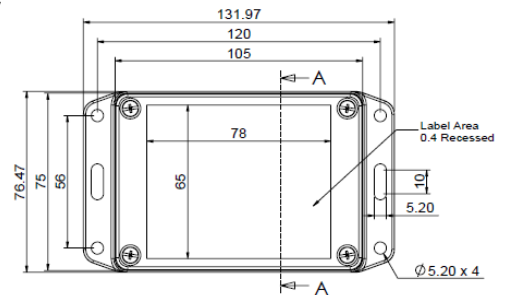
yy	SKU	Band / Channel	Channel Plan	System Cert.
E0	EU	863 - 870 MHz	EU863-870	TBC
U0	US	902 - 928 MHz	US902-928	TBC
A0	AS	923 MHz	AS923	TBC

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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