

IOT400-DL101

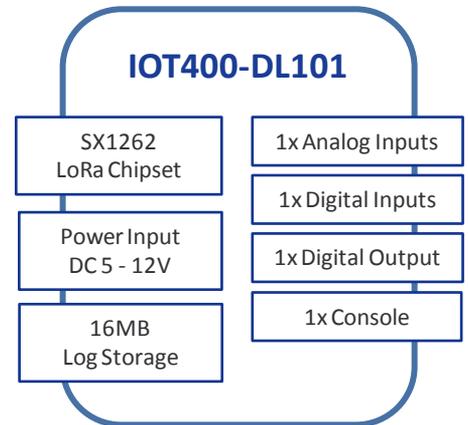
LoRa Data Logger



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



Wide Input Voltage Range

- DC 5 – 12V

LoRaWAN technology

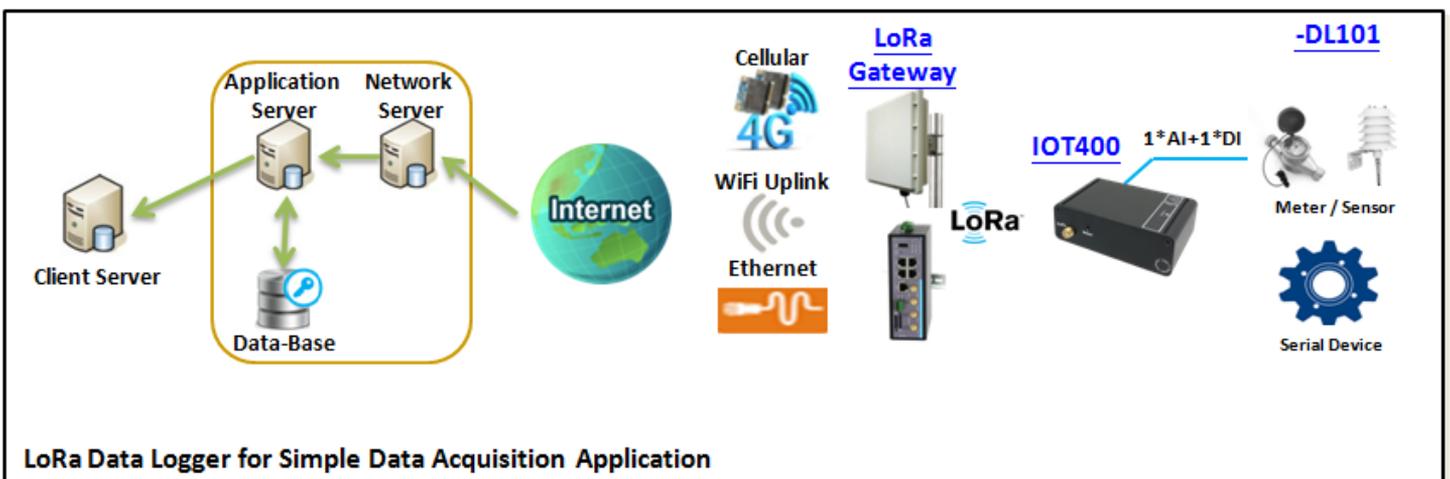
- Low power, low data rates
- Long range communication

Industrial Level Design

- -30 ~ 70 °C operating temperature

Data acquisition and events

- AI/DI 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:** 1* (2x5) Terminal Block

Available H/W Ports

- **Analog Input:** 1* AI ports
Voltage Detect (0-10V)
Current Detect (4-20mA, external 500R required)
- **Digital Input:** 1* DI ports
Level mode ("1": 2V ~ 25V , '0": 0V ~ 1V, or Floating)
- **Digital Output:** 1* DO port
- **Console Port:** 1* UART for device configuration
- **Power Source :** External 5V~12V DC power.
- **Antenna :** 1* LoRa

WAN & Uplink

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

Administration

- **Configuration:** Windows Utility, Console CLI; via USB-to-Serial cable
- **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:** Metal, Desk Top, Wall Mount
- **Dimension:** 77.4 x 68.5 x 26mm (L x W X H mm)

Certificate - CE

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

Package Accessory

- 1*Device
- 1*2 x 5 Terminal Block
- 1* Antenna for LoRa
- 1*Power Adapter 5V/2A

Optional Accessory (separate order required)

- USB-to-Serial Console Cable

SKU Information:

IOT400-DL101-00-yy : LoRa Data Logger

'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



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