



AAEON Industrial LoRa End Node platform

A flexible solution to easily interface your industrial sensors and create your LoRa device

The AIOT-ILDN01 platform is an industrial board solution, based on Murata ABZ IC, ideal for developing LoRa End nodes and devices.

The basic version of it comes with integrated Temperature and Humidity sensor and with embedded 3-axis accelerometer; the 3 grove-type connectors offer UART, RS-232/485 and I2C helpful to integrate any kind of industrial sensor.

The solution can be powered by 5V USB or by 3,6V batteries.

A basic firmware will come pre-installed with the node and it will ne open sourced onto AAEON Industrial Community, to give maximum flexibility to developers and creators.

The node's LoRa parameters can be programmed via the embedded UART connector via simple commands, to have it online in few minutes.

Specifications	
SIZE	85 mm x 65 mm
MCU	1 x Murata CMWX1ZZABZ-078
I/O Connector	3 x GROVE connectors - 1 x UART1 (RS-232/422/485) - 1 x UART2(TX/RX) - 1 x I2C
Others	1 x Temperature & humidity sensor
	1 x 3-axes Accelerometer (2G/4G/8G/16G)
	1 x micro USB2.0 type B with power supply
	1 x JTAG-debug port
Power Input	2 x battery connector for 2 x AA
	4 x LED (GPIO control)
	3 buttons - 1 x boot select - 2 x User defined
	1 x Reset button
Operating Temperature	1 x SMA antenna hole
	1 x IPEX antenna hole
	+5V (USB)
	2 x AA battery for external power
Operating Humidity	0-60°C
Certification	0% ~ 90% relative humidity, non-condensing CE/FCC

- LORA stack & STM32 application architecture
- Support 868/916 MHz
- Build in Temp/humidity sensor, 3-axes accelerometer
- 1 x micro USB2.0 type B with power supply
- 3 x GROVE Connectors for UART & I2C
- Supports with +5V or 2 x AA battery



Established in 1992, AAEON is one of the leading designers and manufacturers of advanced industrial and embedded computing platforms today. Committed to innovative engineering, AAEON provides integrated solutions, hardware and services for premier OEM/ODMs and system integrators worldwide.

AAEON Europe is an associate company of ASUS group, focused on Embedded, Internet Of Things and Industry 4.0. AAEON designs, develops and manufactures building blocks for the digital future in IoT, Intelligent Vending, Network Appliance, Industrial Embedded Computing and more.

For even faster prototyping, a selected range of AAEON products are purchasable through our AAEON Europe Shop and are supported through our extensive AAEON Community.

For more information on how to develop solutions for the future? Visit www.industrialgateways.eu and contact us now.

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A graphic showing a network of white nodes connected by lines, set against a light blue background with a subtle gradient.

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