



NBnano

The **NBnano** is an On-Premise LoRaWAN management system that brings the IoT world into the Automation, Energy Management and Building Management System.

Translate any LoRaWAN sensor into BACnet IP, ModBus TCP/IP.

○ Product Features

- ModBus TCP/IP or BACnet IP conversion
- Configure alerts & notifications
- Sensor data visualization and exporting
- Local data storage
- Support for hundred of LoRaWAN devices
- Integration into Energy Management and Building Management Systems



○ Advantages

- Cost effective solution
- Only one NBnano is required per installation
- Flexible deployment of gateways
- Bring data from multiple protocols into a single unified data stream





LoRaWAN
Devices – Sensors – Transceiver



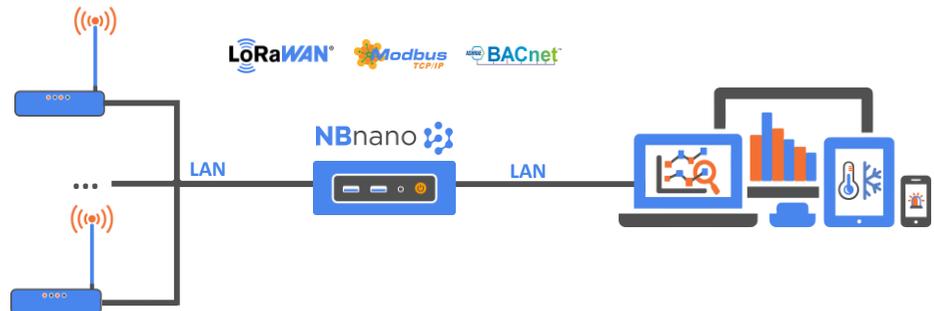
LoRaWAN
Gateway / Concentrator



NBnano IoT Platform
Middleware and Protocol Converter



Building Automation
Energy Management
SCADA



○ Main Applications

- Building Automation
- Energy Management
- SCADA Systems
- Protocol Conversion



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○ Specifications

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|----------------------------------|--|
| Product Type | NBnano |
| Product Family | On-premise LoRaWAN BMS Platform |
| Function | Device management and data logging of LoRaWAN sensors. Protocol conversion for BMS, and SCADA systems. |
| Maximum Number of Devices | Supports up to 1,500 devices * |

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| Hardware | |
| Dimensions (mm) | L 125mm x W 170mm x H 35mm |
| Weight | 890 g |
| Operating Temperature | -10°C to +60°C |
| Humidity | 5%~90% @30°C - No condensation |
| Power Supply | Input AC100-240V, Output DC12V-5A/3A (Power Supply included) |
| Mounting | Desktop mounted (Adapter included) |

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|-------------------|--------------------------|
| Interfaces | |
| USB | 2x USB 3.0 2x USB 2.0 |
| Ethernet | 2x Ethernet |
| Wifi | 2x antennas |

* Based on an average of 5 KPI's per device

