NBnano

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

Translate any LoRaWAN sensor into BACnet, ModBus or MQTT.
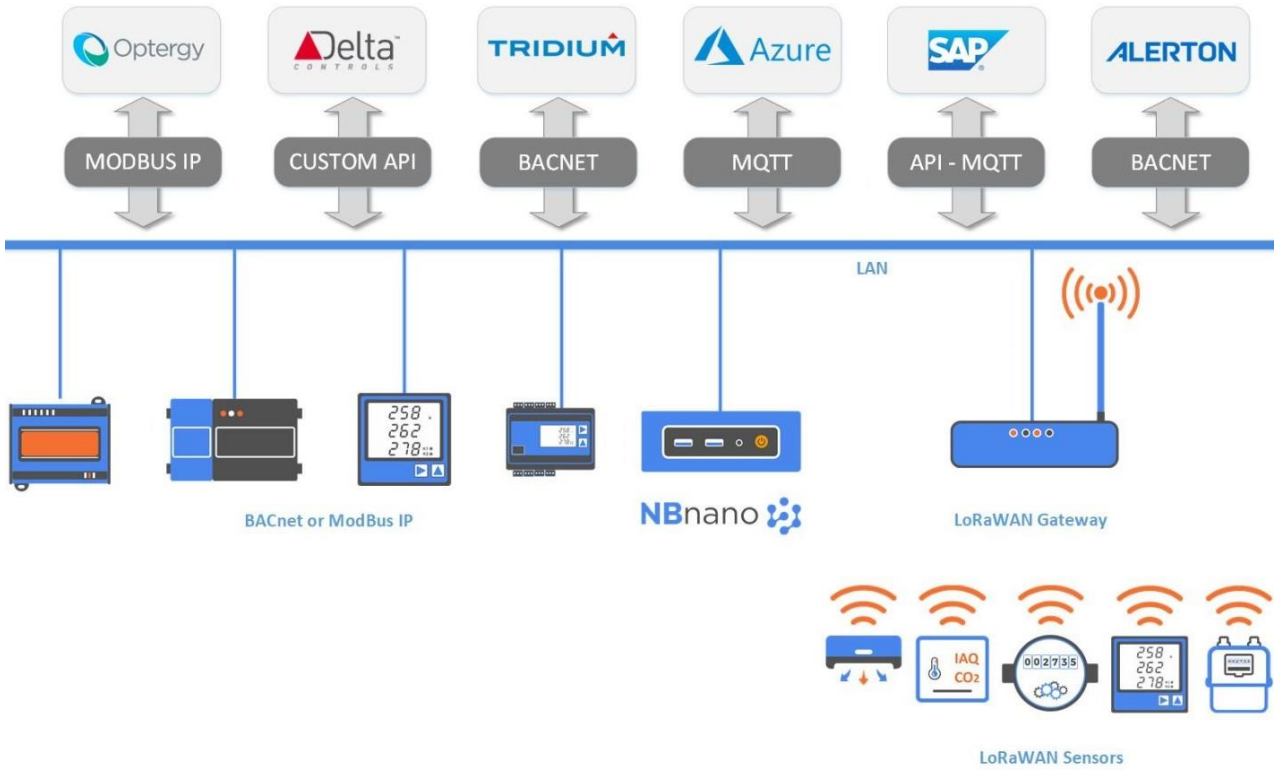
{REST API}   BACnet   Modbus TCP   MQTT

Product Features

- ModBus, BACnet, MQTT and API interfaces
- Configure alerts & notifications
- Sensor data visualization and exporting
- Local data storage
- Remote access via VPN
- Support for hundred of LoRaWAN devices
- Integration into most Energy Management and Building Management Systems

LoRaWAN

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   NB-IoT   LTE-M   Modbus   MQTT   BACnet   {REST API}   4-20 mA

Optergy | Delta CONTROLS | TRIDIUM | Azure | SAP | ALERTON

| MODBUS IP | CUSTOM API | BACNET | MQTT | API - MQTT | BACNET |

LAN

BACnet or ModBus IP

NBnano

LoRaWAN Gateway

IAQ CO2 | 002735 | 258. 262 278

LoRaWAN Sensors

○ Main Applications

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

NBnano	Modbus TCP/IP	ASHRAE BACnet	{REST:API}	MQTT
Modbus TCP/IP		✓	✓	✓
Modbus RTU	✓	✓	✓	✓
ASHRAE BACnet	✓		✓	✓
LoRaWAN	✓	✓	✓	✓

LoRaWAN | NB-IoT | LTE-M | Modbus | MQTT.ORG | ASHRAE BACnet | {REST API} | 4-20 mA

○ Specifications

Product Type	NBnano
Product Family	On-premise 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 *

Hardware	
Processor	2.0 - 2.70GHz Intel Celeron J4125
RAM	4GB RAM
Storage	128GB SSD
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
Operating System	Linux Based

Interfaces	
USB	2x USB 3.0 2x USB 2.0
RS232	2x RS232 Serial Ports
Ethernet	2x Ethernet
Wifi	1x Adapter 2x antennas

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

125mm

170mm

35mm

Power
Button

USB Ports
- 2 USB 2.0
- 2 USB 3.0

Serial Ports
- 2 RS232

Wifi
Antenna
- SMA
  connector

Ethernet
Ports
- 2 LAN ports

Power
Socket
- 12V Input

Wifi
Antenna
- SMA
  connector

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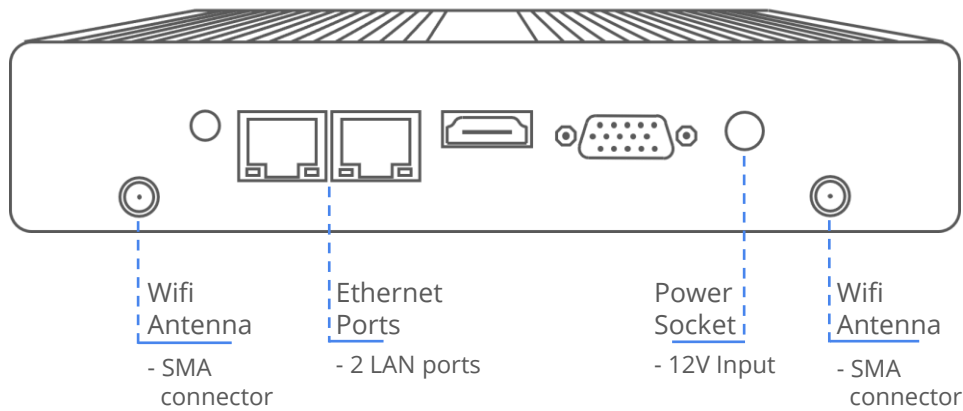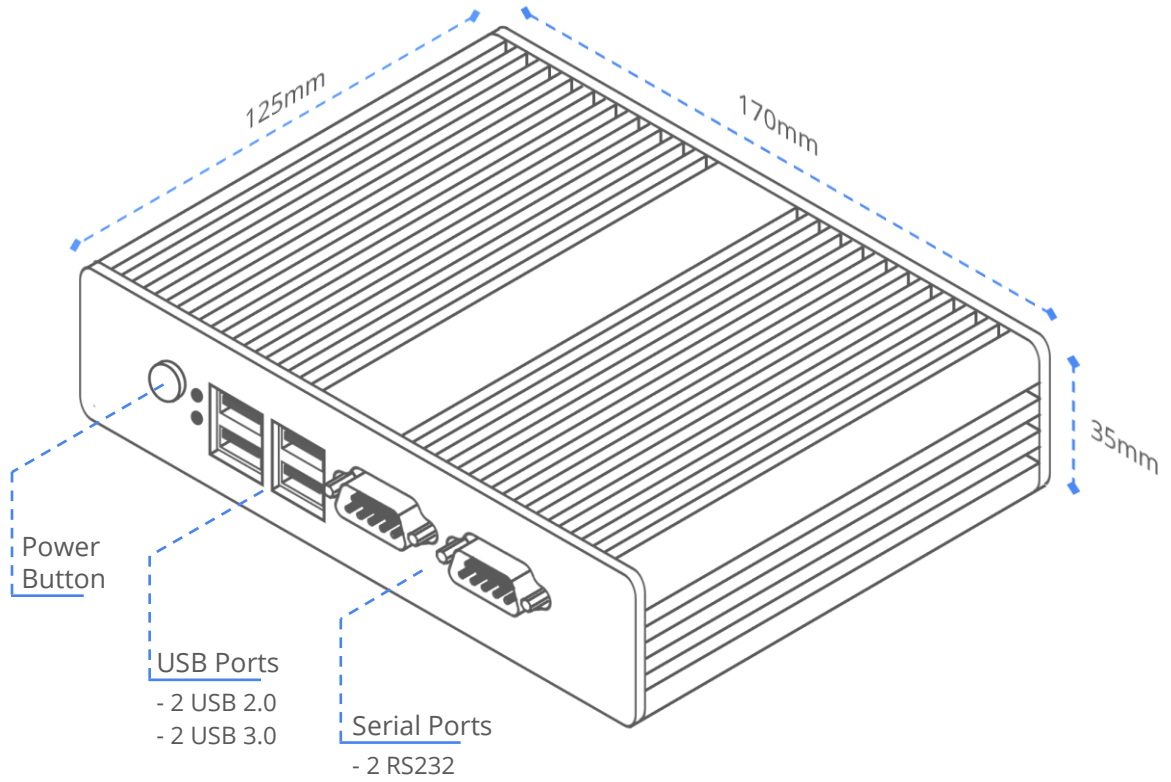
IoT Solutions for:

Building Automation
Indoor Air Quality
Energy Management
Smart Metering
Industrial IoT

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