NBnano

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

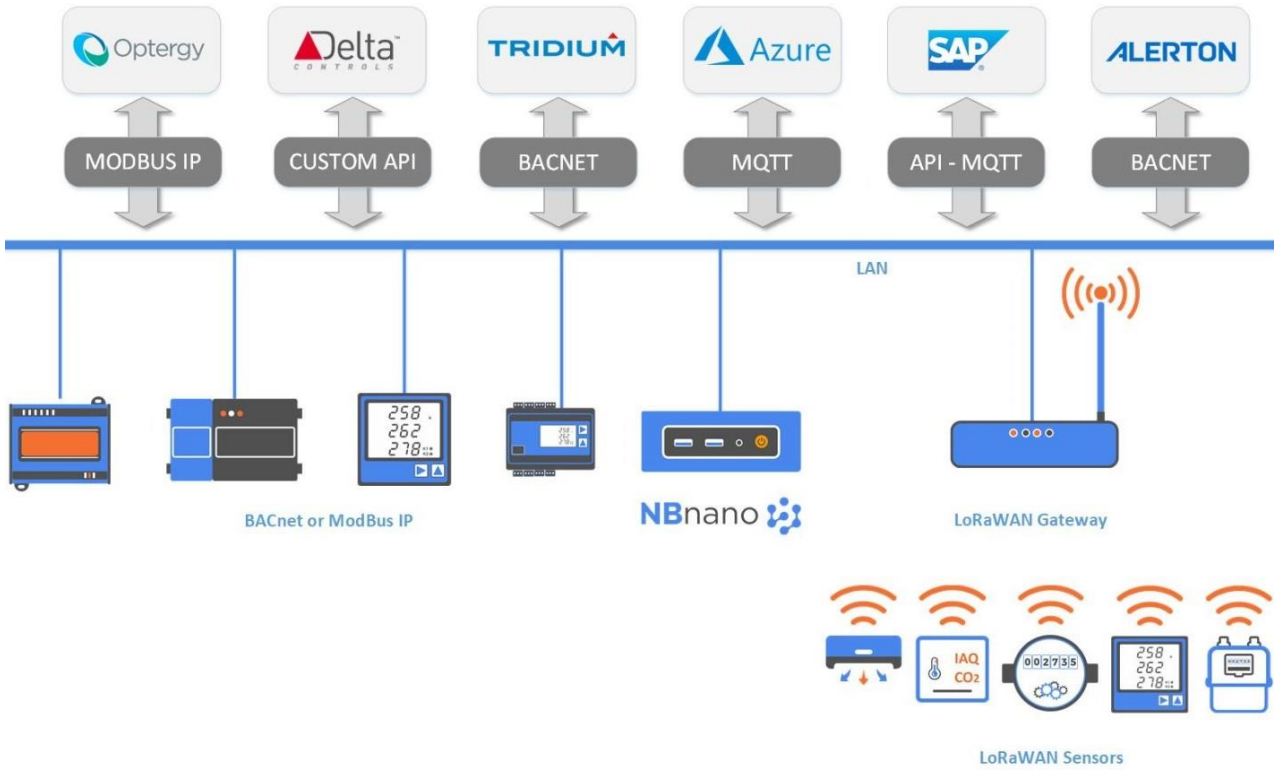Translate any LoRaWAN sensor into BACnet, ModBus or MQTT.

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 hundreds of LoRaWAN devices
- Integration into most 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

{REST API}   BACnet   Modbus TCP   MQTT

LoRaWAN

Optergy — Delta CONTROLS — TRIDIUM — Azure — SAP — ALERTON

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

LAN

BACnet or ModBus IP

NBnano

LoRaWAN Gateway

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
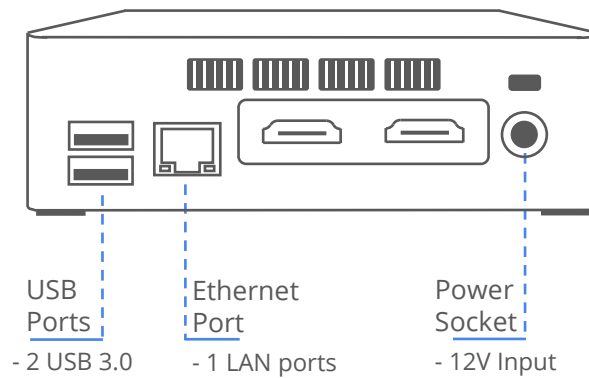
Specifications

Product Name	NBNANO-PRO
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	50 (expandable to 2,500 with license. See website for details)

Hardware	
Processor	2.90GHz Intel Celeron N5095
RAM	8GB RAM
Storage	128GB SSD
Dimensions (mm)	L 125mm x W 170mm x H 35mm
Weight	280 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
Mounting	DIN (optional)

Interfaces	
USB	4x USB 3.0
RS232	Available with Dongle
Ethernet	2x Ethernet
Wifi	1x Adapter

103mm

115mm

42mm

USB Ports
- 2 USB 3.0

Power Button

Rear View

USB Ports
- 2 USB 3.0

Ethernet Port
- 1 LAN ports

Power Socket
- 12V Input

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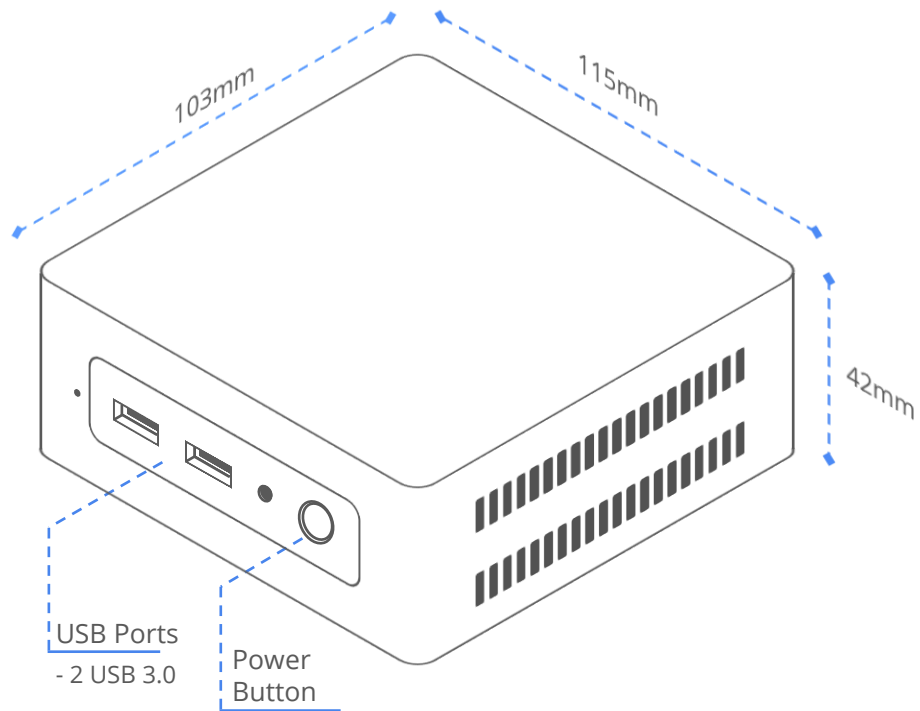
IoT Solutions for:

Building Automation
Indoor Air Quality
Energy Management
Smart Metering
Industrial IoT

Contact Us

info@iqnexus.com
+64 7 262 00 99
556 Cameron Road, Tauranga
New Zealand
www.iqnexus.com