

THE HUB IOT



LoRa to BACnet IP/Modbus TCP Gateway Designed for Easy and Onsite Integration

THE HUB IOT makes wireless LoRa device integrations into conventional Building Management Systems (BMS) easy and intuitive.

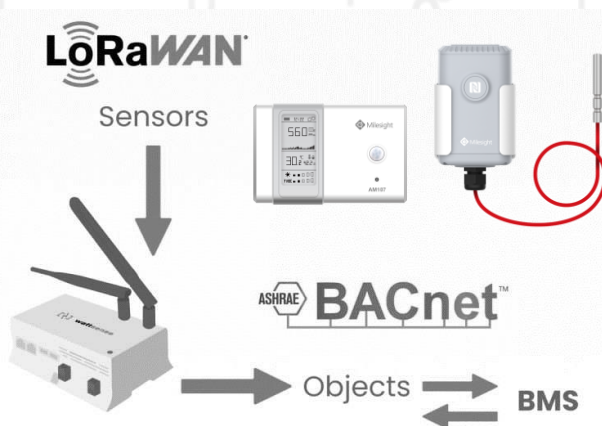
THE HUB IOT supports on-site mapping of LoRa sensor data to BACnet IP and/or Modbus TCP.

THE HUB IOT supports:

- An impressive range of LoRa sensors
- Decoding of LoRa payloads locally in THE HUB IOT
- Optional communication via MQTT to your MQTT broker

THE HUB enables you to take advantage of emerging wireless technologies such as LoRa without data leaving your premises.

THE HUB IOT is configured via a desktop application.



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IN Protocols (Client)

- LoRa
- Maximum 500 LoRa end-nodes



IN

OUT Protocols (Server)

- BACnet IP
- Modbus TCP/IP
- MQTT



OUT

Interfaces

- LoRaWAN module 863MHz to 928MHz
- 3G/4G Modem
- 2 Ethernet ports RJ45
- USB Micro

Drivers

- LoRaWAN 1.0 local private
- BACnet IP, BACnet IP Server
- Modbus TCP/IP
- MQTT Client

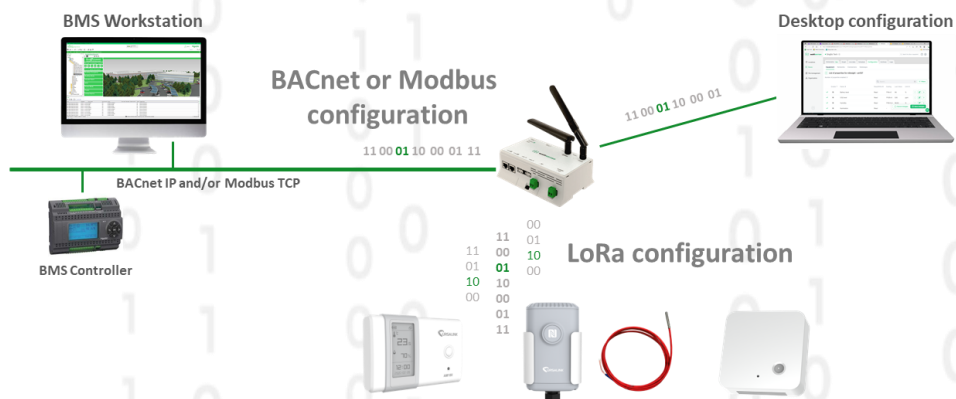
Software

- Secured Linux Yocto distribution
- Onboard LoRaWAN server decodes LoRa data locally directly in the HUB
- Automatic discovery of BACnet objects
- Easy configuration via Desktop console
- Scheduler wizard

Security

THE HUB IOT optionally connects to your MQTT broker with highest level of security based on SSL/TLS, with:

- Two-way authentication between THE HUB IOT and server with x509 certificates
- End-to-end encryption
- Message integrity checks



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Hardware

CPU	528MHz ARM Cortex A7
Memory	512MB RAM
Storage	4GB Flash
Consumption	5 Watt
Dimension	160 x 110 x 55 mm
Weight	340g
Operating temperature	0 ° C to + 45 ° C
Humidity	5% to 95% humidity - No condensation
Power supply	12-24V DC +/-10%, 2A 2 wires (red, black), 22 AWG, Minimum: 0.35 mm ²

