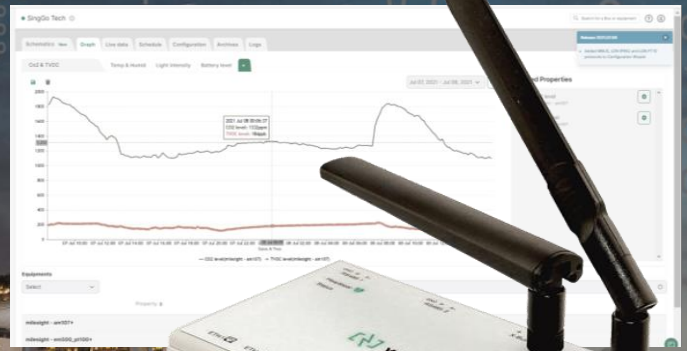


THE BOX



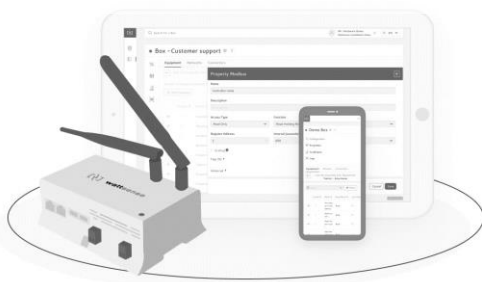
MINI IoT BMS Gateway

Designed for Easy Integration of LoRa sensors and equipment

THE BOX makes integration of LoRa sensors and conventional equipment easy and intuitive.



Integrate sensors and equipment via an extensive range of protocols available in the **THE BOX** and interact with your data via graphs, floor plans, etc. in our easy to configure cloud solution.



THE BOX supports:

- An impressive range of LoRa sensors
- Optional communication via MQTT to your own MQTT broker

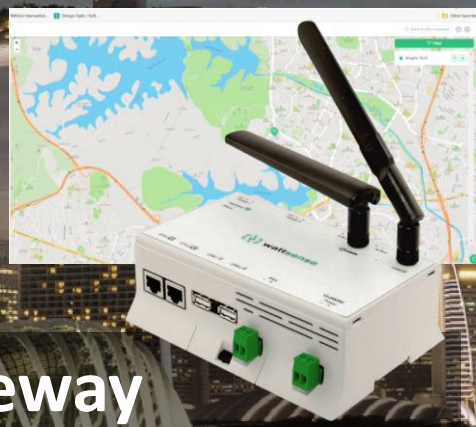
In addition, **THE BOX** supports M-BUS, KNX, LON, BACnet and Modbus, etc. for integration of conventional equipment.

THE BOX enables a Mini IoT Building Management Systems in combination with our cloud solution, at a fraction of the price tag charged by conventional solutions.

THE BOX

MINI IoT BMS Gateway

Designed for Easy Integration of LoRa sensors and equipment



IN Protocols (Client)

- LoRaWAN
- BACnet IP
- Modbus
- KNX
- M-BUS
- LON
- LPB
- Diematic



OUT Protocols (Server)

- BACnet IP
- Modbus TCP/IP
- MQTT



Interfaces

- LoRaWAN module 863MHz to 928MHz
- KNX
- M-Bus
- LPB/BSB
- 3G/4G Modem
- 2 Ethernet ports RJ45
- 2 RS485
- 2 USB
- USB Micro

Drivers

- LoRaWAN 1.0 local private
- BACnet IP, BACnet IP Server
- Modbus TCP/IP
- MQTT Client
- KNX S and LTE
- Modbus RTU
- LON FT10, LON IP-852
- M-Bus
- wM-Bus
- LPB
- Diematic

Software

- Secured Linux Yocto distribution
- Onboard LoRaWAN server decodes LoRa data locally directly in THE BOX
- Automatic discovery of BACnet objects
- Remote configuration of THE BOX
- Secure server communication via MQTT
- Automatic and secure software updates

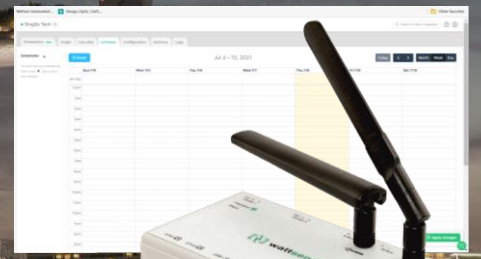
Security

- THE BOX optionally connects to your MQTT broker with highest level of security based on SSL/TLS, with the following properties:
- Two-way authentication between THE BOX and server with x509 certificates
 - End-to-end encryption
 - Message integrity checks

THE BOX

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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

