Data Sheet

WATTSENSE BOX

Box

Managed device to connect all equipment in all buildings.

✓ **Easy and fast to install.**
Anyone can do it. No need to call for an automation engineer.

✓ **Telemetry and commands.**
Collect data and control equipment.

✓ **Smart converter.**
Unify field communication protocols.

✓ **Web-connected.**
Connect automatically to the cloud with 4G or ethernet.

✓ **Powerful IoT device.**
Combines the functions of a gateway, a PLC, a modem and an edge device.

✓ **Non-intrusive and durable.**
Install it, remove it, repeat. It follows your contracts.

✓ **Edge computing.**
Host user plug-ins for local automation (under development).

✓ **Your own brand.**
Available as white-label product.

The building has a BMS?
The Box connects to the primary bus of the BMS as a third party.

There is no BMS?
A BMS network can be created from the Box.

Hardware	Interfaces	Software	Drivers
• CPU: 528MHz ARM Cortex A7	• 4G modem, antenna & SIM	• Secure Linux Yocto distribution	• LoRaWAN 1.0
• Memory: 256MB DDR3 SDRAM	• 863 & 928MHz radio module	• Numerous integrated drivers for buses, protocols and building equipment	• Modbus TCP/IP
• Storage: 256MB NAND Flash	• 2x Ethernet		• Modbus RTU
• 12V-24V DC power input	• 2x RS485	• Equipment discovery over BACnet and LonTalk	• BACnet IP
• Consumption: 5W	• 2x USB		• BACnet MSTP
• Size: 160 x 110 x 55 mm	• 1x KNX	• Complete remote and automated configuration	• LON IP-852
• Weight: 340g	• 1x M-Bus		• LON FT10
	• 1x LPB/BSB	• Secure server communication over WebSocket (MQTT under development)	• M-Bus
			• KNX
		• Secure automatic software updates	• LPB
			• Diematic
			• Many more to come: Wireless M-Bus, OPC UA, etc.

Cloud Service

On-demand building connectivity service for app deployment at scale.
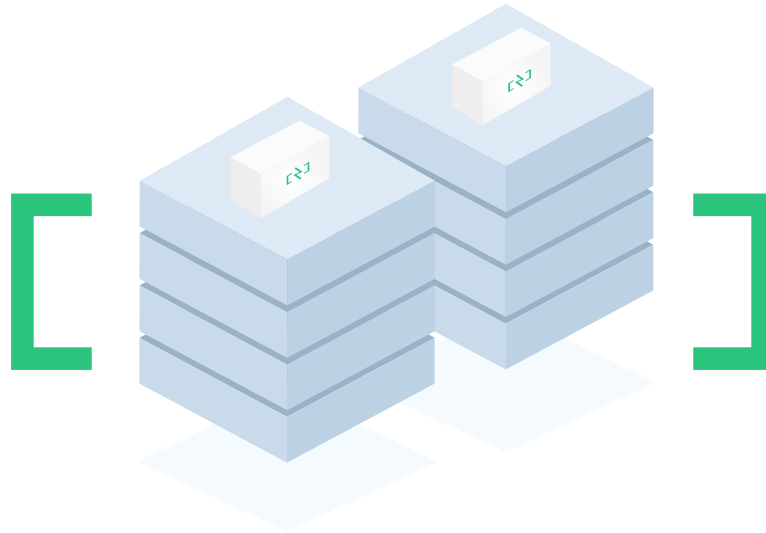
✓ **Digitize your clients assets.**
Save on-site trips and deliver new added value services to your clients.

✓ **Connection wizard.**
Setup in minutes your local network. Reduce drastically your integration cost and speed-up your deployment pace.

✓ **4G communication included.**
Trouble-free internet connectivity.

✓ **Instant access.**
Basic interface with data dashboard and control panel.

✓ **Connect your apps in no time.**
RESTful API and MQTT connector available.

✓ **Monitor and manage your fleet of Boxes.**
Minimal maintenance cost of your deployment.

✓ **Fully configurable.**
Set properties, frequencies, access rights, and more.

✓ **Manage events and alarms.**
Configure alerts and delivery channels.

✓ **Defense in-depth.**
Continuous securisation of the Box fleet and the cloud service.