

PRODUCT DATASHEET

CHESTER wM-Bus

Collect readings from the wireless M-Bus meters already on the walls — no gateway replacement, no rewiring, EED-ready in hours.

REFERENCE NUMBER HPD.260706.18-R1 DATE July 6, 2026


128

meters per device

T1 + C1

wM-Bus modes

7+ yrs

battery at daily readout

26 000

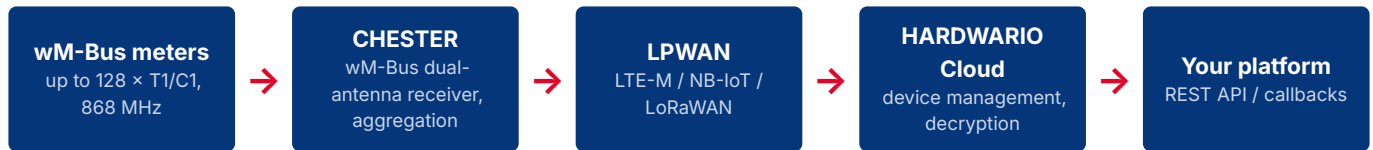
mAh battery capacity

Why integrators pick it

- **Reads the meters already installed**
 Receives standard wireless M-Bus transmissions at 868 MHz in T1 and C1 modes — heat, water, gas, and electricity meters from the major manufacturers, up to 128 meters on a single device.
- **Dual-antenna reception**
 Two antennas switched during reception scan in both polarizations, so meters mounted in unfavorable orientations still get read. Scans run periodically, daily, weekly, or monthly — fully reconfigurable over the cloud.
- **No infrastructure required**
 Runs 7+ years at daily readout on primary batteries and reports over LTE-M, NB-IoT, or LoRaWAN. No electrical installation, no on-site gateway, no dependency on the building's network.
- **Billing-grade data delivery**
 Aggregates the raw wM-Bus packets and delivers them with signal metadata to HARDWARIO Cloud, where per-meter decryption keys can decode them to JSON — or take the raw packets into your own decoding pipeline.

Where it fits

CHESTER wM-Bus is the fastest path to automated sub-metering across a building portfolio: EED-compliant consumption reporting in multi-tenant buildings, transparent heat cost allocation, unit-level water and gas sub-metering that catches leaks early, and unified utility dashboards that eliminate manual reads. One battery-powered device per building or floor replaces walk-by readout for every meter in range.



From installed utility meters to your billing or FM platform — the device listens on schedule, aggregates raw packets, and reports in batches.

The device wakes on its configured schedule, listens for the enrolled meter addresses, and transmits the collected packets — radio time stays low and the batteries last years. Meter lists and scan parameters are managed remotely over the cloud; enrollment can also run as a one-command scan that registers every meter in range. Local commissioning and firmware updates run over Bluetooth Low Energy from a phone with HARDWARIO Manager, and data hands over to any platform you run via REST API or HTTP callbacks.

Technical specification

METERING

wM-Bus receiver	868 MHz, T1 and C1 modes
Meter capacity	Up to 128 wM-Bus meters per device
Reception	2 antennas, switched during reception for both polarizations
Scan scheduling	Periodic, daily, weekly, or monthly; parameters configurable over the cloud
Data delivery	Raw wM-Bus packets with RSSI; optional cloud-side decoding with per-meter decryption keys

CONNECTIVITY

Cellular	LTE-M / NB-IoT
LoRaWAN	Alternative backhaul to cellular
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager

POWER

Power supply options	Primary lithium cells or power adapter
Primary batteries	2× Saft LSH 20 lithium cell, size D — 3.6 V, 26 000 mAh
Battery life	7+ years at one readout per day
Operating voltage range	2.0 V to 5.25 V
Idle consumption	< 180 µA
Peak consumption	< 300 mA

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Dimensions	200 × 280 × 65 mm

Ordering information

Two application variants cover the common deployment scenarios: **CHESTER wM-Bus** runs fully on its primary batteries; **CHESTER wM-Bus DC** is powered from a mains adapter for installations with continuous scanning.

Ordering code	Description
CHESTER-M-CES	CHESTER mainboard — LTE-M/NB-IoT, without supercapacitors (battery variant)
CHESTER-M-CS	CHESTER mainboard — LTE-M/NB-IoT, with supercapacitors (DC variant)
CHESTER-B1-DLW	B1 carrier board — D-size battery holders (lithium configuration) + wM-Bus receiver module with u.FL antenna connector
CHESTER-E19-P	Enclosure for CHESTER with the B1 carrier board

COMPLIANCE

CHESTER wM-Bus conforms to the Radio Equipment Directive 2014/53/EU — including the EN 18031-1 cybersecurity requirements mandatory since August 2025 — and the RoHS Directive 2011/65/EU, and to the equivalent UK statutory requirements. The built-in radio modules additionally carry FCC certifications for the US market.

Declaration of Conformity: HDC.260706.18

CE

UKCA

Scope a sub-metering pilot

A CHESTER wM-Bus evaluation unit enrolls the meters in one building and reports to your platform in an afternoon. Tell us about the portfolio — meter types, building sizes, connectivity on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER in the HARDWARIO store](#)
- [Read the developer documentation](#)

ABOUT HARDWARIO

HARDWARIO a.s. designs and manufactures industrial IoT devices in Liberec, Czech Republic. Founded in 2016 and listed on the Prague Stock Exchange, the company does more than 80 % of its business through its partners.

HARDWARIO a.s.

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