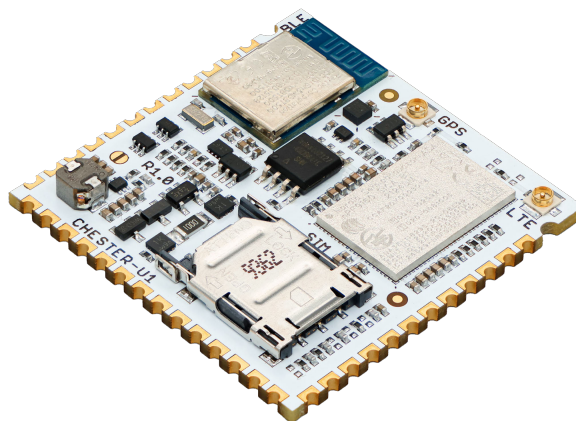


PRODUCT DATASHEET

CHESTER-U1

The CHESTER platform in a 38.1×38.1 mm OEM module — add LTE-M/NB-IoT connectivity to your own product without redesigning it.



REFERENCE NUMBER HPD.260706.03-R1 DATE July 6, 2026

38.1 mm

square module footprint

LTE-M

+ NB-IoT cellular

BLE

diagnostics and updates

1

firmware binary with
CHESTER-M

Why integrators pick it

■ Cellular for your own hardware

Adds LTE-M and NB-IoT (Nordic nRF9160) plus Bluetooth Low Energy to third-party devices — a configurable IoT module designed to be built into your own electronics as an OEM component.

■ Full CHESTER ecosystem

CHESTER SDK (Zephyr RTOS, nRF Connect SDK), HARDWARIO Cloud device management, FOTA updates, and BLE commissioning via HARDWARIO Manager — everything the platform offers, inside your enclosure.

■ Electrically compatible with CHESTER-M

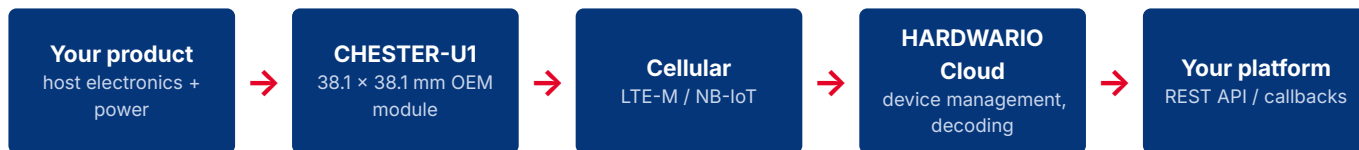
The same firmware binary runs on CHESTER-M and CHESTER-U1 without changes — prototype on the full CHESTER-M platform, then ship the compact module inside your product.

■ Host-powered, bare-module format

Powered from the host device — no batteries or enclosure of its own, so your product keeps its mechanical envelope, industrial design, and bill of materials under your control.

Where it fits

CHESTER-U1 is for OEM manufacturers and integrators who already have a product — controllers, meters, dispensers, machines — and need it online. Instead of a ground-up connectivity redesign, the module drops into your electronics and brings the whole proven CHESTER stack with it. Fleets that mix stand-alone CHESTER-M units and embedded U1 modules share one cloud, one decoder set, and one management toolchain.



The module rides inside your product — commissioning over Bluetooth Low Energy, data over cellular, management in HARDWARIO Cloud.

Because CHESTER-U1 is electrically compatible with CHESTER-M, your development workflow stays simple: application firmware is written and debugged once against the CHESTER SDK, validated on a CHESTER-M developer unit, and deployed unchanged to the module in production. Remote management — FOTA updates, remote shell, REST API, and HTTP callbacks — runs through HARDWARIO Cloud exactly as it does for the rest of the CHESTER family.

Technical specification

MODULE

Form factor	Compact OEM module, 38.1 × 38.1 mm
Hardware revision	R1.1 (current)
Compatibility	Electrically compatible with CHESTER-M — same firmware binary runs on both
Power supply	Provided by the host device

CONNECTIVITY

Cellular	LTE-M / NB-IoT (Nordic nRF9160)
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager

FIRMWARE & ECOSYSTEM

SDK	CHESTER SDK — Zephyr RTOS, nRF Connect SDK, embedded C
Cloud	HARDWARIO Cloud — device management, FOTA, REST API, HTTP callbacks
Applications	Runs CHESTER catalog and custom application firmware unchanged

Ordering information

CHESTER-U1 is supplied as a bare module for OEM integration; the current hardware revision is R1.1. For prototyping, pair it with a CHESTER-M developer unit — the firmware you validate there ships to the module unchanged. Talk to HARDWARIO about volumes, MOQ conditions, and integration support for your host design.

Ordering code	Description
CHESTER-U1	Compact OEM module — LTE-M/NB-IoT + BLE, host-powered

COMPLIANCE

CHESTER-U1 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.260706.02

CE**UKCA**

Put your product online

An evaluation starts on a CHESTER-M developer unit and moves to the U1 module without touching the firmware. Tell us about the host device — power budget, interfaces, volumes — and we will scope the integration with you, from schematic review to the first connected prototype.

- [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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