

PRODUCT DATASHEET

CHESTER Control

Remote monitoring and control in one device — read industrial inputs and switch valves, relays, and actuators from the cloud, anywhere LTE-M, NB-IoT, or LoRaWAN reaches.



REFERENCE NUMBER HPD.260706.07-R1 DATE July 6, 2026

4

analog/digital inputs

4

switched outputs

0–28 V

input voltage range

4–20 mA

current-loop support

Why integrators pick it

■ Remote output control

Up to four switched outputs driven by cloud commands — toggle relays, valves, motors, and other actuators from anywhere, without sending a technician to flip a switch.

■ Fail-safe operation

Configurable default states ensure safe behavior during communication loss, watchdog timers prevent stuck outputs, and a downlink watchdog detects when cloud contact is lost.

■ Monitoring and control combined

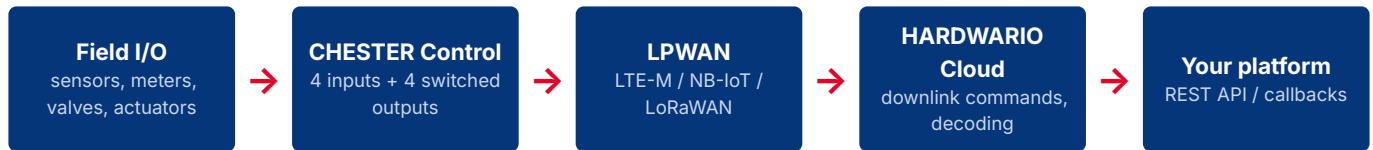
Four configurable analog/digital inputs sit next to the outputs — read sensors, meters, and machine signals and act on them from the same device.

■ Industrial I/O out of the box

NPN/PNP digital inputs, 0–28 V voltage and 4–20 mA current-loop measurement — interfaces directly with existing industrial sensors and equipment.

Where it fits

CHESTER Control replaces the site visit at distributed installations: opening and closing irrigation, water-supply, or gas shutoff valves from the desk, cloud-based HVAC control in remote buildings without a full BMS investment, sensor-driven automation of irrigation, greenhouse ventilation, and feeding systems in agriculture, and remote start/stop of pumps, fans, and motors in industrial processes — cutting response times from hours to seconds.



Uplink measurements and downlink control over one LPWAN link — outputs are switched by JSON downlink messages through the cloud API.

Analog inputs are sampled on a configurable period and aggregated locally (min/max/average/median); digital input changes are buffered as timestamped events and can optionally be reported immediately. Outputs are switched by downlink JSON messages — from the HARDWARIO Cloud console or your own system through the REST API — which the device picks up on a configurable poll interval. Local commissioning and firmware updates run over Bluetooth Low Energy from a phone with HARDWARIO Manager.

Technical specification

INPUTS

Input channels	4, individually configurable
Trigger input	Digital NPN/PNP, 0 to 28 V — switch, button, relay, PLC sensor
Counter input	Digital NPN/PNP, 0 to 28 V — pulse outputs (e.g. S0 energy meters)
Voltage input	Analog, 0 to 28 V — overlaps the 0–10 V standard
Current input	Analog, 0 to 24 mA — overlaps the 4–20 mA standard

OUTPUTS

Output channels	4 switched outputs
Output voltage	6 to 28 V — outputs supply the external input voltage (VIN) when enabled
Control	Cloud downlink messages (JSON) — polled by the device on a configurable interval
Watchdog	Downlink watchdog interval detects loss of cloud communication

CONNECTIVITY

Cellular	LTE-M / NB-IoT
LoRaWAN	Supported — network mode selectable in configuration
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager

POWER

External power	DC 6 V to 28 V
Backup (Control Z)	CHESTER-Z1 module — rechargeable Li-ion backup battery + power-outage event reporting

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Ingress protection	IP67
Dimensions	130 × 175 × 45 mm

Ordering information

Two application variants cover the common deployment scenarios: **CHESTER Control** runs from the external DC supply; **CHESTER Control Z** adds the backup module for operation and event reporting through power outages.

Ordering code	Description
CHESTER-M-BCGLS	CHESTER mainboard — LTE-M/NB-IoT, LoRaWAN, BLE, GNSS
CHESTER-X0B:A	Input module — 4 configurable channels, slot A
CHESTER-X4:B	Step-down converter + 4 switched outputs, slot B
CHESTER-Z1	Backup module — DC 6–28 V input + rechargeable Li-ion cell (Control Z variant)

COMPLIANCE

CHESTER Control 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.260706.06

CE
UKCA

Scope a remote-control pilot

A CHESTER Control evaluation unit reads your field signals and switches its first output from the cloud in an afternoon. Tell us about the application — input types, actuator loads, connectivity on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER Control 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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