

PRODUCT DATASHEET

CHESTER Push

Cut response times from minutes to seconds — wireless ANDON buttons, service request points, and safety alerts anywhere, with no infrastructure changes.



REFERENCE NUMBER HPD.260706.14-R1 DATE July 6, 2026

4

ALU buttons with LED

short/long

press modes

3 350

mAh backup battery

< 180 μ A

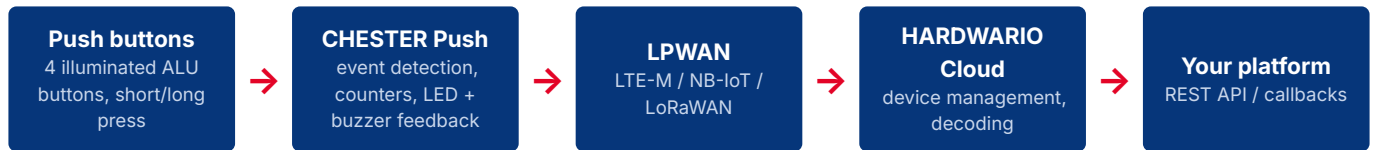
idle consumption

Why integrators pick it

- **Instant alerts**
One press sends an immediate notification via the cloud to supervisors, maintenance teams, or emergency responders. The LED on the button and an integrated acoustic buzzer confirm to the operator that the press was recognized.
- **No infrastructure needed**
Powered from a mains adapter with a rechargeable backup battery and reporting over LTE-M, NB-IoT, or LoRaWAN — place buttons anywhere in the facility without running cables or installing Wi-Fi.
- **Up to 4 independent buttons**
Assign a different action or priority level to each of the four illuminated aluminium buttons. Short and long presses are distinguished in every message — eight distinct signals from one device — and the enclosure printing can be customized with labels per button.
- **Configurable actions**
Define custom workflows for each button — trigger e-mails, SMS, webhooks, or integrate with the systems your client already runs. Sent messages can be acknowledged from the cloud and signaled back on the LED.

Where it fits

CHESTER Push turns any location into a connected alert point. On production lines it is the ANDON trigger for line stops, quality issues, and material shortages; in facilities it replaces slow e-mail tickets with one-button service requests in meeting rooms and common areas; in parking structures, remote sites, and restricted zones it is a wireless panic button that delivers incident alerts straight to security teams.



From button press to your client's workflow — every event lands in the cloud within seconds and triggers the action you configure.

Every message identifies which button triggered it and carries running short-press and long-press counters for each button, plus temperature and device orientation from the built-in sensors. The report also includes external-power presence, DC line voltage, and battery voltage — so the same device doubles as a power-outage monitor for the site. Local commissioning and firmware updates run over Bluetooth Low Energy from a phone with HARDWARIO Manager; fleets are managed remotely through HARDWARIO Cloud with data handover via REST API or HTTP callbacks.

Technical specification

USER INTERFACE

Push buttons	4 illuminated aluminium buttons (single center-button variant available)
Press modes	Short press and long press, distinguished in every message
Press feedback	Per-button LED indication + integrated acoustic buzzer
LED behaviour	Standard (2 s green/red confirmation) or Flip Mode firmware variant
Event data	Triggering event + per-button short/long press counters in every report
Built-in sensors	Thermometer; accelerometer (device orientation)

CONNECTIVITY

Cellular	LTE-M / NB-IoT
LoRaWAN	Public and private LoRaWAN networks
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager
Antenna	External via SMA pigtail

POWER

Power supply method	Mains + backup battery
External power input	DC 6 V to 26 V (mains adapter or DC line)
Backup battery	Rechargeable Li-Ion, 3.7 V, 3 350 mAh
Operating voltage range	2.0 V to 5.25 V
Idle consumption	< 180 μ A
Peak consumption	< 250 mA
Outage reporting	External-power presence, DC line voltage, and battery voltage in every message

ENVIRONMENT & MECHANICAL

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

Ordering information

The off-the-shelf configuration provides four push buttons on the left side of the enclosure. For bulk orders, the number of buttons can be configured — including a single center-button version — and the enclosure printing can be customized with text labels or symbols next to each button. Two firmware variants are available: the standard low-power implementation and **CHESTER Push FM** (Flip Mode), where the LED stays latched on the last pressed button.

Ordering code	Description
CHESTER-M-CGLS	CHESTER mainboard — LTE-M/NB-IoT, LoRaWAN, BLE, GNSS
CHESTER-Z1-F	Cover module — four push buttons, rechargeable Li-Ion backup battery, DC power input
CHESTER-E2-LP	Enclosure with light pipe and SMA antenna pigtail

COMPLIANCE

CE
UKCA

CHESTER Push 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.260706.13

Scope an ANDON pilot

A CHESTER Push evaluation unit is on the wall and reporting to your platform in an afternoon. Tell us about the application — how many buttons, what each one should trigger, and the connectivity on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER Push 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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