

PRODUCT DATASHEET

STICKER Motion

Battery-powered PIR motion detection and counting — occupancy data from any room, with no wiring, no infrastructure, and no maintenance visits.



REFERENCE NUMBER HPD.260706.24-R1 DATE July 6, 2026

5 m

detection range

100°

detection angle

2+ yrs

battery life

NFC

tap-to-configure

Why integrators pick it

PIR detection built in

Passive infrared sensor detects movement up to 5 meters across a 100° angle, with configurable sensitivity and detection intervals — tuned per room, not per firmware build.

No wiring, no infrastructure

Runs 2+ years on two standard AA batteries and mounts on a wall or ceiling with double-sided tape or two screws — deployable across occupied buildings without an electrician.

Counts events, not just triggers

Motion events are counted over configurable time windows — room occupancy, corridor traffic, or restroom usage patterns as usable data, not just a binary alarm.

LoRaWAN + NFC provisioning

Reports motion events via LoRaWAN to private or public networks; a software-selectable LoRa P2P mode links directly to HARDWARIO FIBER. Thresholds and intervals are configured through NFC from a phone.

Where it fits

STICKER Motion turns presence into a data feed: room usage in offices, meeting rooms, and shared spaces to optimize cleaning schedules and space utilization; visit counting in restrooms and common areas so maintenance follows actual usage instead of fixed intervals; and after-hours movement detection in restricted areas, storage facilities, and construction sites with instant alerts.



One radio, two paths — standard LoRaWAN through any gateway and network server (The Things Stack, ChirpStack), or a direct LoRa P2P link to HARDWARIO FIBER.

The device sleeps between detections and reports motion events and counts on configured intervals; the built-in accelerometer adds orientation reporting, so a knocked-off or repositioned unit is visible in the data. Provisioning is a tap: keys, thresholds, and reporting intervals are written over NFC from a smartphone, even while the device is unpowered. Ready-made payload decoders and downlink command tooling are available for The Things Stack and ChirpStack, so events land in ThingsBoard, a purpose-built application, or your own system without firmware work.

Technical specification

DETECTION

Sensor type	Passive infrared (PIR)
Detection range	Up to 5 m
Detection angle	100°
Sensitivity	Configurable sensitivity and detection intervals
Event counting	Motion events counted over configurable time windows
Accelerometer	3-axis (LIS2DH12) — orientation reporting

CONNECTIVITY

LoRaWAN	868 MHz (EU868) or 915 MHz (US915) — public or private networks
LoRa P2P	Proprietary 868 MHz mode, software-selectable — direct links to HARDWARIO FIBER
Configuration	NFC from a smartphone — network keys, thresholds, reporting intervals; works even unpowered
Radio SoC	STM32WL (Arm Cortex-M4F) with integrated LoRa radio
Firmware	Open source, built on Zephyr OS
Antenna	Internal

POWER

Batteries	2× AA — alkaline (LR6) or lithium 1.5 V
Nominal battery capacity	3 000 mAh
Operating voltage range	1.8 to 3.6 V
Standby consumption	< 80 µA
Peak consumption	< 100 mA
Battery life	2+ years at typical reporting intervals

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Ingress protection	IP20 (IP67 with enclosure)
Enclosure	ABS plastic, 91 × 36.5 × 33.3 mm
Mounting	Double-sided tape or two screws

Ordering information

STICKER Motion ships as a complete, pre-configured device — no firmware development needed. The hardware consists of the following components:

Ordering code	Description
STICKER M	Standard mainboard — STM32WL with integrated LoRa radio and sensors
STICKER NFC	NFC board
PYQ-1648-7053	PIR sensor
ENC-STICKER-MOTION	Enclosure with two light pipes, PIR hole, and perforation
ENERGIZER-AA-1.5V-LITHIUM	AA lithium 1.5 V cell (2× per device)

COMPLIANCE

CE
UKCA

STICKER Motion 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.
 Declaration of Conformity: HDC.260706.24

Scope an occupancy pilot

A few STICKER Motion units on the wall and a tap of a phone is all a pilot takes — occupancy events reach your platform the same day. Tell us about the application — spaces, traffic patterns, LoRaWAN coverage on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore STICKER Motion 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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