



MESH ANCHOR

A device for fixed reference points to support accurate indoor positioning and reliable Wirepas Mesh communication



Inventory tracking



Temperature and humidity monitoring



Tools and equipment monitoring

SIMPLICITY WITHOUT WIRES

Deploy wireless battery-powered devices with ease for long-term operation

RELIABLE NETWORK OPERATION

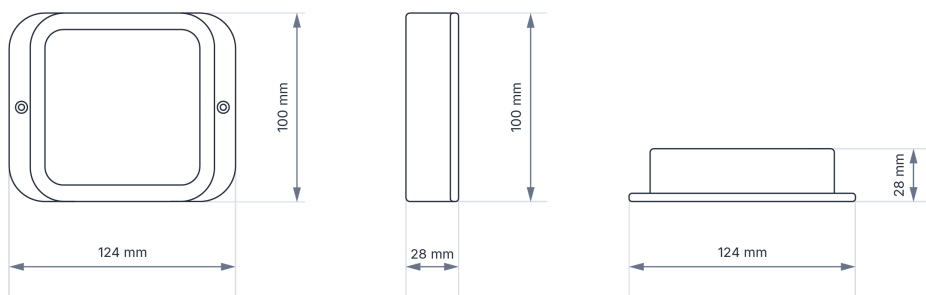
Ensure continuous data flow with a self-healing network that automatically reroutes communication if devices move, disconnect, or become unavailable

NO-SIM CONNECTIVITY

Enable device communication without SIM cards or mobile subscriptions, reducing operational costs and simplifying setup

INTELLIGENT 3-IN-1 NETWORK

Connect gateways, anchors, and Mesh tags into one network where devices exchange data and information flows smoothly across the system



Electronics

Core module	Nordic nRF52832 SoC (MCU and radio transceiver)
MCU core	ARM Cortex-M4 32-bit CPU
Current consumption	Radio TX: 7.1 mA (0 dBm TX); Radio RX: 6.5 mA Idle mode: 3 μ A; Idle mode with accelerometer ON: 7 μ A

**All stated current consumption values are specified at an ambient temperature of 25 °C*

Connectivity

Standard	Wirepas Mesh 2.4GHz (stack v5.x)
Frequency band	2.402 to 2.480 GHz
Channel spacing	2 MHz
BLE beaconing channels	CH37 (2.402 GHz), CH38 (2.426 GHz), CH39 (2.480 GHz)
TX power	Conducted: +4 dBm (max) EIRP (Equivalent Isotropic Radiated Power): +7 dBm (max)

Antenna	Type: Directive planar printed antenna Gain: 3 dB (max) Radiation diagram: Directive with 10dB front-to-back ratio (FBR)
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Power

Specification	Power supply: Battery Replaceable battery: Yes Battery type: 4x AA (1.5V, alkaline) Model: Panasonic LR6 or equivalent (typical tot. capacity 5600 mAh at 25°C) Battery packaging: 4 x AA batteries included and pre-installed with insulating pull tabs; device activation requires removal of the tabs
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Physical specification

Material	ABS plastic
Color	White
Dimensions	100 x 100 x 28 mm (without flanges) 124 x 100 x 28 mm (including flanges)
Weight	197 g
Fastening method	Lateral flanges for 2x M4 screws (optional plastic holder available)
Opening	4 screws on back panel
Ingress protection	IP40
Flammability	UL 94 V0

Operating environment

Operating temperature	-20°C to +60°C (battery operating life sharply decreases under 0°C)
Storage temperature	+10°C to +30°C (with battery), -40°C to +85°C (without battery)

Features

Scenarios	Indoor tool tracking, Equipment tracking, Medical equipment tracking, Smart manufacturing
Operating modes	Opportunistic anchor
BLE beaconing	iBeacon, Eddystone
Configuration and firmware update	Mesh Network

Certification & approvals

Regulatory	CE
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