

Maxi Wirepas

Wirepas Mesh 2.4GHz indoor anchor

Data sheet



Key features

- Suitable for indoor localization and tracking
- Based on Nordic nRF52832
- Firmware based on Wirepas libraries
- Toroidal-pattern antenna
- Snap-fit enclosure with wall-mounting bracket
- Powered by two replaceable AA batteries with long operating life

GATT and advertising

Based on Wirepas Mesh 2.4GHz stack v5.x

Available applications: Wirepas PosApp, BlueUp PosApp

Wirepas PosApp

Configuration and diagnostics	WNT (Wirepas Network Tool)
Operating modes	Opportunistic anchor, NRLS tag, Autoscan tag, DA tag
BLE beaconing	iBeacon, Eddystone UID, Eddystone URL (fixed packet)

BlueUp PosApp

Configuration and diagnostics	WNT (Wirepas Network Tool) / BlueUp MeshCube
Operating modes	Opportunistic anchor (Low Energy)
BLE beaconing	iBeacon, Eddystone UID (configurable packet)
Sensor interval	Configurable (from 1 minute to 1 hour)

Device specifications

Electrical specifications

Core module	Nordic nRF52832 SoC (MCU and radio transceiver)
MCU core	ARM Cortex-M4 32-bit CPU
Current consumption (25°C)	Radio TX: 7.1 mA (0 dBm TX); Radio RX: 6.5 mA Idle mode: 3 µA; Idle mode with accelerometer ON: 7 µA

Radio specifications

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)



BlueUp S.r.l.
Loc. Belvedere, Ingresso 2, 53034 Colle di Val d'Elsa (SI) - ITALY
Tel. +39 0577 043101 / +39 344 2030929, Fax +39 0577 043101
E-mail: info@blueupbeacons.com, Web: www. blueupbeacons.com
P.IVA/CF/N. iscr. CCIAA (SI). 01373980521, VAT n.: IT01373980521

Antenna	
Type	T-shaped Integrated Planar Antenna (TIPA)
Gain	2 dB (max)
Radiation diagram	Toroidal
Power	
Power supply	Battery
Replaceable battery	Yes
Battery type	2x AA 1.5V (LR6 alkaline)
Model	Panasonic LR6 or equivalent (typical capacity 2600 mAh @ 25°C)
Sensors and interfaces	
Sensors	-
Interfaces	-
Mechanical specifications	
Material	ABS plastic
Color	White
Size	70 x 45 x 32 mm
Weight	80 gr
Fastening	Wall-mount bracket, dual-adhesive
Opening	Snap-fit cover
Protection	IP40
Flammability	UL 94 HB
Environmental specifications	
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)
Certifications	
CE	

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