

# 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)



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<b>Antenna</b>	
Type	T-shaped Integrated Planar Antenna (TIPA)
Gain	2 dB (max)
Radiation diagram	Toroidal
<b>Power</b>	
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)
<b>Sensors and interfaces</b>	
Sensors	-
Interfaces	-
<b>Mechanical specifications</b>	
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
<b>Environmental specifications</b>	
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)
<b>Certifications</b>	
CE, FCC	

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