

Brick Wire Wirepas

Wirepas Mesh 2.4GHz anchor

Data sheet



Key features

- Designed for outdoor and industrial applications
- Based on Nordic nRF52832
- Firmware based on Wirepas libraries
- Rugged IP67 enclosure with or without flanges
- External power supply with voltage 5-30 Vdc
- Internal 2-poles screw connector with cable-gland

Wirepas Specifications

Based on Wirepas Mesh 2.4GHz stack v5.x

Available applications: Wirepas PosApp, BlueUp PosApp

Wirepas PosApp

Operating modes	Opportunistic anchor (Low Latency)
BLE beaconing	iBeacon, Eddystone UID, Eddystone URL (fixed packet)

BlueUp PosApp

Configuration and diagnostics	MeshCube, Wirepas API, Wirepas NMS
Operating modes	Opportunistic anchor (Low Latency)
BLE beaconing	iBeacon, Eddystone UID (configurable packet)

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): +6 dBm (max)



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Antenna	
Type	Integrated meandered planar inverted F-antenna (PIFA)
Gain	2 dB (max)
Radiation diagram	Omnidirectional
Power	
Power supply	External DC voltage
Voltage	5-30 Vdc
Current	10mA
Connector	Internal 2-poles screw connector (with cable-gland)
Sensors and interfaces	
Sensors	3-axis MEMS linear accelerometer
Interfaces	-
Mechanical specifications	
Material	Polycarbonate (PC) plastic
Color	Light grey RAL7035
Size	94 x 58 x 35 mm (with flanges, excluding cable-gland) 94 x 75 x 35 mm (with flanges, including cable-gland)
Weight	88 gr
Fastening	Screws (not included), silicone glue
Opening	Front cover with four screws
Protection	IP67/NEMA6
Flammability	UL 94 HB
Environmental specifications	
Operating temperature	-40°C to +75°C
Storage temperature	-40°C to +75°C
Certifications	
CE (RED)	

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