

## Brick Wire Wirepas

### Wirepas Mesh 2.4GHz anchor

#### Data sheet



 Wirepas

#### 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

|                               |  |
|-------------------------------|--|
| Configuration and diagnostics | WNT (Wirepas Network Tool)                           |
| Operating modes               | Opportunistic anchor (Low Latency)                   |
| 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 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)<br>Radio RX: 6.5 mA<br>Idle mode: 3 µA<br>Idle mode with accelerometer ON: 7 µA |

| <b>Radio specifications</b>         |  |
|-------------------------------------|--|
| 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)<br>EIRP (Equivalent Isotropic Radiated Power): +6 dBm (max)                            |
| <b>Antenna</b>                      |  |
| Type                                | Integrated meandered planar inverted F-antenna (PIFA)  |
| Gain                                | 2 dB (max)   |
| Radiation diagram                   | Omnidirectional  |
| <b>Power</b>                        |  |
| Power supply                        | External DC voltage  |
| Voltage                             | 5-30 Vdc   |
| Current                             | 10mA   |
| Connector                           | Internal 2-poles screw connector (with cable-gland)  |
| <b>Sensors and interfaces</b>       |  |
| Sensors                             | 3-axis MEMS linear accelerometer   |
| Interfaces                          | -  |
| <b>Mechanical specifications</b>    |  |
| Material                            | Polycarbonate (PC) plastic   |
| Color                               | Light grey RAL7035   |
| Size                                | 94 x 58 x 35 mm (with flanges, excluding cable-gland)<br>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   |
| <b>Environmental specifications</b> |  |
| Operating temperature               | -40°C to +75°C   |
| Storage temperature                 | -40°C to +75°C   |
| <b>Certifications</b>               |  |
| CE                                  |  |

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