

Beacons comparison



| | DSP RX v5.05/DSP RX v5.05 Outdoor | Mini-beacon TX v5.07/Mini-beacon TX v5.07 Outdoor | Mini-beacon TX v5.07 batteryless | Beacon HW v4.9/Beacon HW v4.9 Outdoor | Beacon-TX-915-25-IP67/Beacon-TX-915-25-EX | Beacon-RX-915-IP67/Beacon-TX-915-EX |
|---------------------------------|--|---|-------------------------------------|---|--|--|
| Specialty and main use | Universal, multi-frequency and high-sensitivity RX-only beacon | Small TX only beacon | The lightest TX only beacon | Universal dual-use beacon. Support of 433- or 915/868MHz bands | Heavy-duty outdoor/Explosion dangerous environment | Heavy-duty outdoor/Explosion dangerous environment |
| Mode of operation | RX only | TX only | | Dual-use (RX and TX) | TX only | RX only |
| Range | - Up to 50m ³ | - Up to 30m with DSP RX v5.05 - Up to 20m with Beacon v4.9 | | - Up to 50m with DSP RX v5.05 ³ - Up to 30m with Beacon v4.9 ³ | - Up to 30m with Beacon-RX-915-XX | - Up to 30m with Beacon-TX-915-25-XX |
| Ultrasonic frequencies | - 19/25/31/37/45/56kHz - Several at the same time | - 31/37/45/56kHz - Only one HW defined frequency at the time | | - 19/25/31/45kHz - Only one frequency at the time | - 25kHz only | - 19/25/31/37/45/56kHz - Several at the same time |
| Radio band | 915/868MHz | 915/868MHz | | 915/868MHz or 433MHz | 915/868MHz | 915/868MHz |
| LiPol battery | 750mAh | 250mAh | No embedded battery | 1000mAh | 4300mAh and wireless charging ⁴ | 4300mAh and wireless charging ⁴ |
| Environmental conditions | - Indoor/Outdoor up to IP67 - t=0..40C ⁶ | - Indoor/Outdoor ² - t=0..40C ⁶ | - Indoor - t=0..40C ⁶ | - Indoor/Outdoor ² - t=0..40C ⁶ | - Outdoor ² /Intrinsically Safe ⁵ - t=0..40C ⁶ | - Outdoor ² /Intrinsically Safe ⁵ - t=0..40C ⁶ |
| Size and weight | 47x42x15mm & 25g | 35x35x26mm & 19g | 35x35x20mm & 12g ⁹ | 55x55x33(64 ⁷)mm & 62/75g | 83x58x65mm ⁸ & 250g | 83x58x33mm ⁸ & 200g |
| IMU (3D gyro+acc+mag) | Yes | Yes | Yes | No/Yes (for the version with IMU) | Yes | Yes |
| Price_€ | 99/129USD | 89/129USD | 89USD | 69/99USD (w/o IMU) 89/119USD (with IMU) | 149/189USD | 149/189USD |

- 1) Withstand submersion to water on 1m up to 30m (IPX7 requirements)
- 2) Mild outdoor: occasional rain, dust doesn't kill the device. Performance during this time is no guaranteed
- 3) 1D mode: RX4 to RX4 sensors; other sensors are disabled
- 4) Other power options available upon request
- 5) Exact type of certification shall be discussed separately

- 6) Temperature range down to -40C is available with external power supply only and upon request
- 7) With antenna
- 8) Sizes without mounting holes
- 9) 6.3g without housing
- 10) For example: DSP RX v5.05=89USD, DSP RX v5.05 Outdoor=129USD