



# R-IoT

## Technical specification

Specification	Description
Features	60 GHz pulsed coherent radar sensor. Temperature sensor (Typical accuracy: +/- 2 °C at 0-30 °C)
Radar specifications	Acconeer XM122 radar module 60.5 GHz EIRP: Max +10 dBm 0.3 - 6.8 m range with mm precision
2.4 GHz protocol specifications	2.4 GHz (2.4 -2.483 GHz) Data rate: 2 Mbps Max output power: 5.5 dBm Sensitivity: -101 dBm (Long range)
Dimensions	<b>001-01-001 R-IOT RADAR DEVICE</b> <ul style="list-style-type: none"><li>- Diameter: 45 mm</li><li>- Height: 30 mm</li><li>- Weight incl battery: 38 g</li><li>- Radar beam (approx.): +/- 60°</li><li>- Radar Reference Point (RRP): 1.1 cm</li></ul> <b>001-02-001 R-IOT RADAR DEVICE W LENS</b> <ul style="list-style-type: none"><li>- Diameter: 45 mm</li><li>- Height: 45 mm</li><li>- Weight incl battery: 43 g</li><li>- Radar beam (approx.): +/- 12°</li><li>- Radar Reference Point (RRP): 2.6 cm</li></ul> <p>The distance is measured from the radar RRP located 1.1 cm (Std) or 2.6 cm (Narrow) below the front of the sensor.</p>
Operating conditions	-30 to + 80° C Weather protected: IP67 Rubber ring sealing Circuit boards moisture protected by conformal coating
Storage conditions	+10 to + 30° C
Power supply	Replaceable 2.1 Ah Li-SOCl <sub>2</sub> battery. 3.6 V
Battery life	5-10 years battery life using default settings.
Other	* The device features battery voltage level monitoring capability. A voltage reading below 2.8 V (when the temperature exceeds +10°C) indicates that the battery should be replaced. * Data memory for off-line storage of time-stamped data.