

Product Brief

Type 2EG BLE Module

Bluetooth®5.2 wireless module

Ultra-low power, ultra-small, highly integrated

Description

Type 2EG is an ultra-low power, ultra-small, and secure Bluetooth Low Energy 5.2 wireless module for connected IoT edge devices in industrial and medical applications.

Benefits

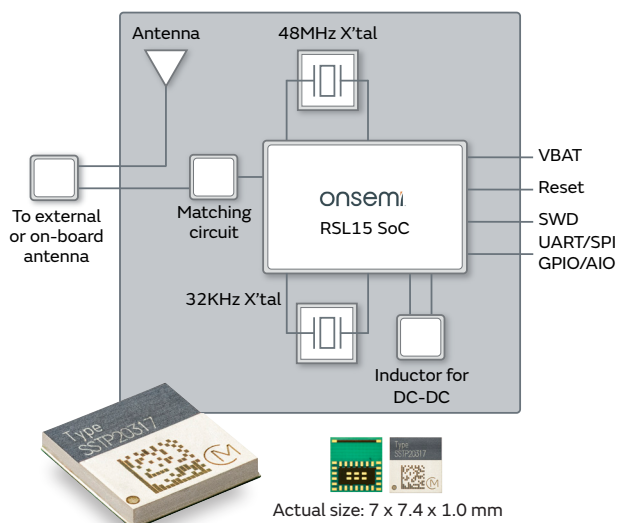
- Powerful MCU core for user applications
- Ultra-low power consumption
- Integrated IoT cybersecurity platform
- Rich peripheral interface
- Ultra-small size
- Both on-board and external antenna option

Features

- Bluetooth® 5.2
 - Long range
 - 2Mbps transmit rate
 - Proximity AoA and AoD
 - Up to 10 simultaneous connections
- 7mm x 7.4mm x 1.0mm (max.) LGA package
- 48MHz Arm® Cortex® M33
- 80kB RAM (including 64kB user RAM), 512kB Flash
- Arm® CryptoCell 312
- Max transmit power 6 dBm
- Receive sensitivity -95 dBm @ 1Mbps
- Ultra-low power:
 - TX @ 0dBm 4.3mA
 - RX @ 1Mbps 2.7mA
 - Sleep mode 40nA @3V VBAT
- On-board antenna and external antenna option
- Input supply: 1.2V - 3.6V
- I/O interfaces: UART, QSPI, SPI, GPIO, ADC, DAC, PWM, 12C
- Shield/mold: Shielded resin
- Operating temperature range: -40°C to 85°C
- Regulatory certificate: FCC/ISED, ETSI, TELEC



Module Block Diagram



Part number: LBCA1HN2EG

Engineering samples are available.
Please contact Murata or onsemi sales.