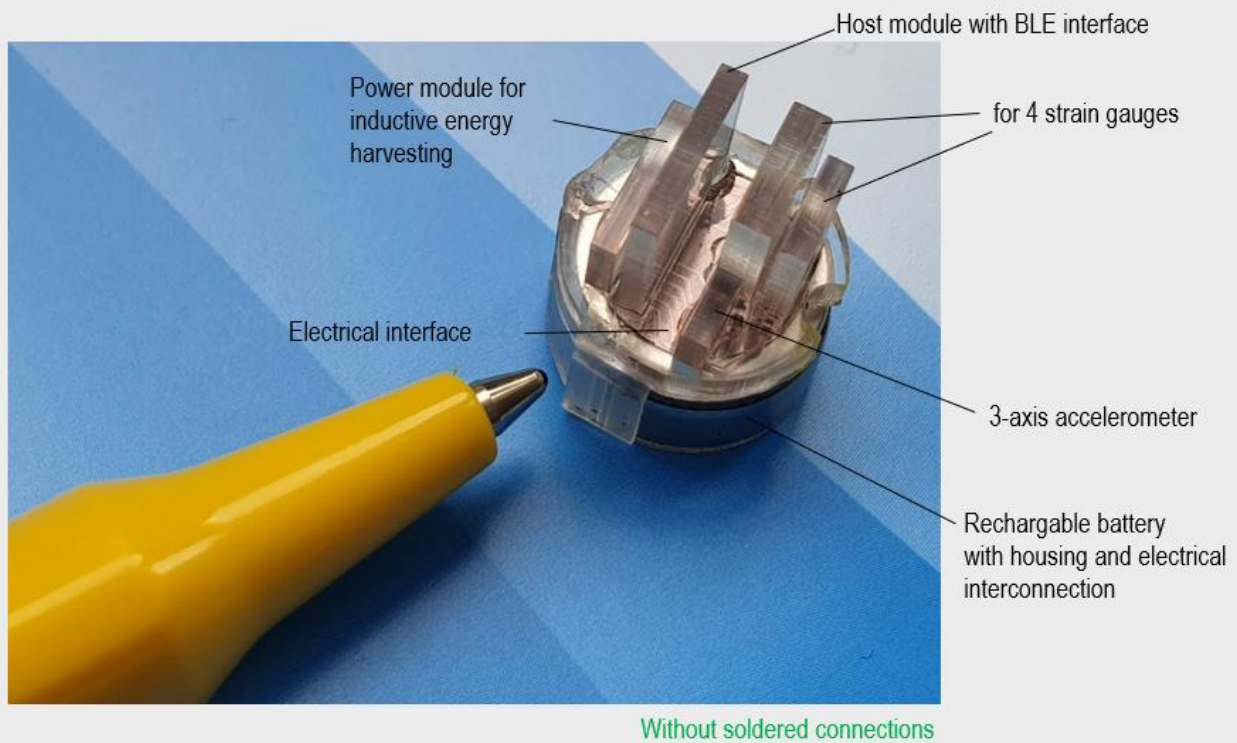


3D-CSP Sensor node

Smallest Sensor node Diameter 12 mm, height 14.6 mm



Rechargeable battery:

- VARTA CP1254 A2
- 3.7 V; 60 mAh

3D-CSP Host module with TI CC2650 and BLE interconnect

- Powerful *ARM® Cortex®-M3*
- EEMBC *CoreMark®* Score: 142
- Up to 48-MHz clock speed
- 128KB of in-system programmable flash
- 8KB of SRAM for cache
- 20KB of ultralow-leakage SRAM
- 2-Pin cJTAG and JTAG debugging
- Supports *Over-The-Air* (OTA) Upgrade
- Ultralow-Power sensor controller
- Can run autonomous from the rest of the system
- 16-Bit architecture
- 2KB of ultralow-leakage SRAM for code and data

RF Section

- 2.4-GHz RF Transceiver compatible with *Bluetooth Low Energy* (BLE) 4.2 specification and IEEE 802.15.4 PHY and MAC
- Excellent receiver sensitivity (–97 dBm for BLE and –100 dBm for 802.15.4), selectivity, and blocking performance
- Link budget of 102 dB/105 dB (BLE/802.15.4)
- Programmable output power up to +5 dBm
- Single-ended or differential RF interface
- Suitable for systems targeting compliance with worldwide radio frequency regulations
 - ETSI EN 300 328 (Europe)
 - EN 300 440 Class 2 (Europe)
 - FCC CFR47 Part 15 (US)
 - ARIB STD-T66 (Japan)

3D-CSP Accelerometer module

- Plus/minus 200 g measurement range
- 200 Hz to 3.2 MHz user selectable bandwidth with 4-pole antialiasing filter-selectable oversampling ratio
- Adjustable high-pass filter

3D-CSP Power Module

- With rectifier circuit and coil
- Dual input buck-boost with integrated *PowerPath™* manager
- Ultralow start-up voltages: 850mV
- Start with no backup source, 300mV with backup source
- Compatible with primary or rechargeable backup batteries
- Digitally selectable VOUT and VSTORE n maximum power point control
- Ultralow quiescent current: 1.6µA

Possibility to work only with power module and without battery

3D-CSP Strain gauges Module

- For 4 strain gauges

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