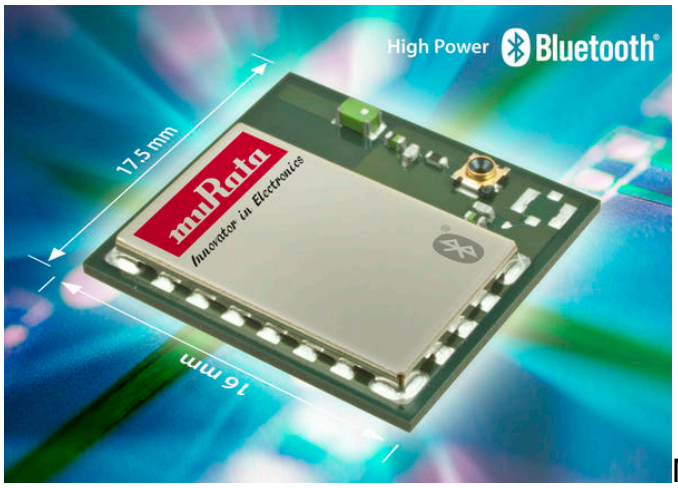
Industrial-grade, High Power Class 1 Bluetooth Module Touts Broad Transmission Range



Murata Americas introduced a new industrial grade, high-power Class 1 Bluetooth module - the SN2100 With the Class 1 power output, the module is asserted to achieve a broader transmission range than typical Bluetooth solutions. It operates in standard industrial operating temperature range of - 40ºC to 85ºC and offers a standard HCI interface to host CPU. As a result, the module is appropriate for industrial control and monitoring applications that demand longer and broader distance coverage, greater operating temperature range, and extended product life. It is also suited for lighting-control, home automation, home energy management and healthcare and wellness applications. Combined with 18 dBm transmit power output, receive sensitivity of -92 dBm and its on-board chip antenna, the Bluetooth Class 1 SN2100 transmission coverage is up to 800 feet (250 meters), enabling OEMs to deliver products with both broader transmission range and better performance against interference, according to the company, in the already crowded 2.4 GHz frequency band.
The Murata SN2100 module combines the Texas Instrument Bluetooth integrated circuit CC2560A, a power amplifier, radio frequency front end, TCXO (ensuring clock accuracy), and chip antenna into a small Land Grid Array form factor. Additionally, the SN2100 uniquely features an on-module 32 kHz slow clock that decreases implementation time and cost. This compact FCC/IC certified CE marked radio module can be easily integrated into OEM product designs without taking up valuable space in end-products that are increasingly shrinking in size. The total footprint is 17.5 mm x 16.0 mm x 2.0 mm.

To alleviate engineering software integration complexity, SN2100 has been verified with the pre-integrated Bluetooth stack in popular microcontroller platforms MSP430 and Stellaris® from Texas Instruments. With FCC / IC certification and CE mark, engineers are saved from the hassles of putting their end-product through the rigors and expense of testing and certifications with both US and Canadian regulatory bodies and with the Bluetooth SIG.
The SN2100 module (Murata part number 88-00150-00) will be available from

Murata's distribution partners by November 1, 2012. The module is produced for high-volume applications and priced accordingly.

Murata Americas www.murataamericas.com [1]

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