



PRELIMINARY

Anaren Integrated Radio 1101 Series



A1101R08A

The A1101R08A is a high-performance, ETSI compliant radio module that incorporates the Texas Instruments CC1101 transceiver chip in the industry's smallest package (9 x 16 x 2.5mm).

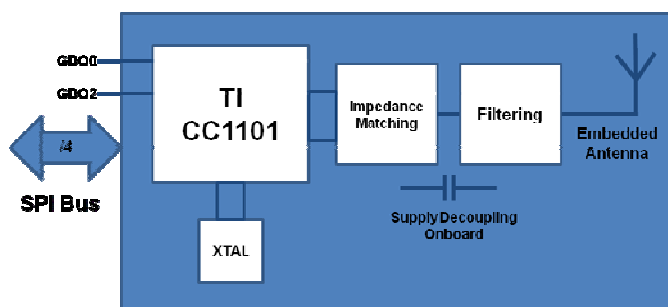
Features

- Frequency range: 865-868 MHz
- ETSI compliant, shielded package
- Digital RSSI output
- Programmable output power up to +10dBm
- High sensitivity (-112 dBm at 1.2 kBaud, 868 MHz 1% packet error rate)
- Ultra-small package size 9 x 16 x 2.5mm
- LGA footprint
- RoHS compliant
- Operating temperature -40 to +85C
- Impedance-controlled, multi-layer PCB
- 1.8 to 3.6 VDC
- Low current consumption (15 mA in RX, 1.2 kBaud, 868 MHz)
- 200 nA sleep mode current consumption
- Efficient SPI interface; all registers can be programmed with one "burst" transfer
- Available in tape & reel and matrix tray

Benefits

- No RF engineering experience necessary
- No additional EN 300 328 / EN 300 440, EN 301 489 testing required
- Minimal real estate required
- Easily implemented on a two layer PCB
- No additional harmonic filtering required
- 100% RF-tested in production
- Common footprint for product family
- No additional DC decoupling required
- Integrated analog temperature sensor
- Excellent receiver selectivity and blocking performance
- Suitable for frequency hopping systems, thanks to a fast-settling frequency synthesizer with 90 μ s settling time
- Impedance-matched balun for optimized efficiency
- Support for asynchronous and synchronous serial receive/transmit mode for backwards compatibility with existing radio communication protocols

Block diagram



PLEASE NOTE: Additional information on the Texas Instruments CC1101 device can be found in the company's latest datasheet release at <http://www.ti.com>



This product shall not be used in any of the following products or systems without prior express written permission from Anaren Microwave, Inc:

- implantable cardiac rhythm management systems, including without limitation pacemakers, defibrillators and cardiac resynchronization devices;
- external cardiac rhythm management systems that communicate directly with one or more implantable medical devices; or
- other devices used to monitor or treat cardiac function, including without limitation pressure sensors, biochemical sensors and neurostimulators.



Anaren, Inc. / 6635 Kirkville Road / East Syracuse, NY 13057
800.411.6596 / <http://www.anaren.com> / air@anaren.com

