



Anaren Integrated Radio 1101 Series

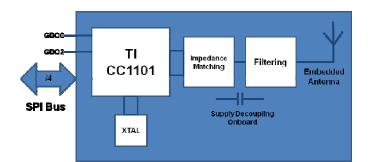
The A1101R09A is a high-performance, FCC & IC certified radio module that incorporates the Texas Instruments CC1101 transceiver chip in the industry's smallest package (9 x 16 x 2.5mm).

A1101R09A

Features

- Frequency range: 902-928 MHz
- FCC & IC compliant, shielded package
- Digital RSSI output
- Programmable output power up to +10dBm
- High sensitivity (-112 dBm at 1.2 kBaud, 915 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, 915 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 "Intentional Radiator" certification required (FCC CFR 47 Part 15, IC RSS-210)
- 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 μs 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

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



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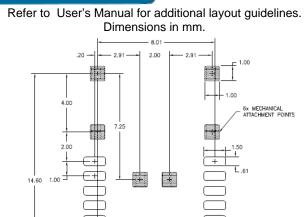
Product overview

The A1101R09A is a high-performance, FCC & IC certified radio module that incorporates the Texas Instruments CC1101 transceiver chip in the industry's smallest package (9 x 16 x 2.5mm) and is compatible with all TI-approved software stacks.

With an LGA pad footprint, this module is designed to effortlessly integrate into a wide range of applications, including: industrial control, building automation, low-power wireless sensor networks, lighting control, and automated meter reading.

The A1101R09A has an RoHS-compliant ENIG finish and is packaged on tape and reel for highvolume automated manufacturing.

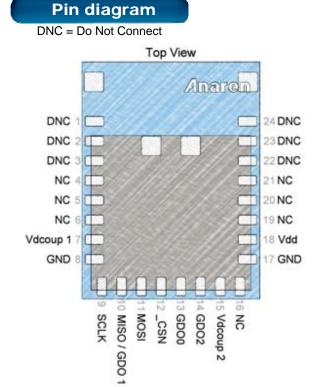


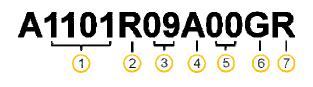


Nomenclature

.41

- 1.00





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- 1 Chip series
- 2 Function 3 Frequency band
- 4 Form factor
- 5 Design ID
- 6 Application
- 7 Packaging

(Anaren) (1101, 2500)(R = radio only)(x100MHz) (A = Internal Antenna, C = Connector) (00 = Default)(G = General)(R = Tape/Reel, M = Matrix Tray)



Caution! ESD sensitive device. Precautions should be used when handling the device in order to prevent permanent damage.







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Mouser Electronics

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