







## Anaren Integrated Radio 110L Series

The A110LR09A is a ULTRA low cost, high-performance, FCC & IC certified radio module that incorporates the Texas Instruments CC110L "value line" transceiver chip in the industry's smallest package (9 x 16 x 2.5mm).

#### **Features**

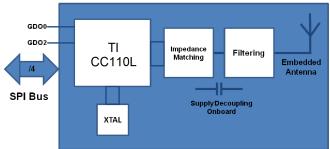
- Frequency range: 902-928 MHz (N. America) and 868-870 MHz (Europe)
- FCC, IC and ETSI compliant, shielded package
- Digital RSSI output
- Programmable output power up to +10dBm
- High sensitivity (-112 dBm at 1.2 kBaud, 915 MHz 1% packet error rate)
- Ultra-small package size 9 x 16 x 2.5mm
- LGA footprint
- 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**

- Minimal 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 CC110L 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.







# Anaren Integrated Radio

### **Product overview**

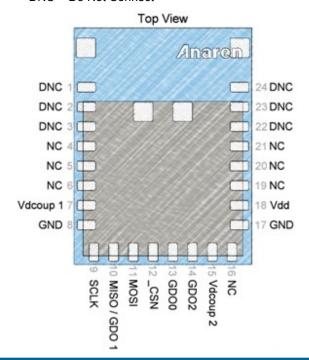
The A110LR09A is a high-performance, dual-band FCC & IC certified and ETSI compliant radio module that incorporates the Texas Instruments CC110L "value line" low-cost transceiver chip in the industry's smallest package (9 x 16 x 2.5mm) and is compatible with all TI-approved software stacks.

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 A110LR09A has an RoHS-compliant ENIG finish and is packaged on tape and reel for high-volume automated manufacturing.

### Pin diagram

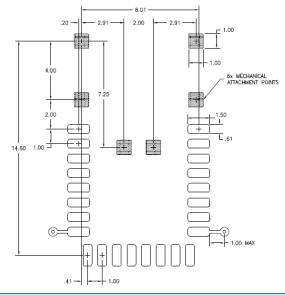
DNC = Do Not Connect



### **Footprint**

Refer to User's Manual for additional layout guidelines.

Dimensions in mm.



### **Nomenclature**

# A110LR09A00GR

A Obia assiss

I Chip series

2 Function

3 Frequency band

4 Francisch

4 Form factor

5 Design ID6 Application

7 Packaging

(Anaren)

(CC1101, CC110L, CC2500)

(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.





# AMEYA360 Components Supply Platform

# **Authorized Distribution Brand:**

























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