# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Anaren Integrated Radio A8520 PurePath<sup>™</sup>

The A8520E24A91 is a high-performance, FCC & IC certified and ETSIcompliant\* radio module that incorporates the Texas Instruments CC8520 PurePath wireless audio SoC, CC2591 Range Extender, and integral antenna all in the industry's smallest package 11 x 19 x 2.5mm.

# A8520E24A91

#### Features

- Operates in the 2.4GHz ISM band
- FCC, IC and ETSI compliant\*, shielded package
- Un-Compressed Wireless Audio Connectivity
- Pre-defined protocol
- PC-based configurable human interface
- Autonomous or host mode operation
- Integral Antenna
- Integral Range Extender
- 87dBm Sensitivity
- 20dBm Output Power
- Exceptional range:
  - (>150M line-of-sight // typical 30m indoor)
- Co-existence with WiFi and Bluetooth systems
- 78mA Master current consumption
- 36mA Slave current consumption
- Available in tape & reel and matrix tray

\* See User's Manual for important information about versions that comply to the ETSI standards



## Application Block Diagram

#### Benefits

- Minimal RF engineering experience necessary
- No additional "Intentional Radiator" certification required (FCC CFR 47 Part 15, IC RSS-210)
- Operating temperature –40 to +85C
- 100% RF Tested in production
- No protocol experience required
- Easily implemented on a two layer PCB

#### **Applications**

Consumer Audio, Professional Audio Portable Audio, Digital Radio

PLEASE NOTE: Additional information on the Texas Instruments CC8520 and CC2591 devices can be found in the company's latest datasheet releases at http://www.ti.com. PurePath™ is a trademark of Texas Instruments



**SLAVE** 



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What'll we think of next?"



## Anaren Integrated Radio

#### **Product overview**

The A8520E24A91 is a high-performance, FCC & IC certified and ETSI compliant audio module based on the Texas Instruments CC8520 transceiver and CC2591 range extender in the industry's smallest package ( $11 \times 19 \times 2.5 \text{ mm}$ ).

The module incorporates the required RF matching & filtering, crystal, integral antenna, and digital line filtering for good noise reduction and sensitivity. The result is quick low power wireless connectivity without having to deal with extensive protocol, RF, antenna design and regulatory compliance; thereby providing quick time to market. The modules are 100% tested in production to ensure consistent performance.

The A8520E24A91 has an RoHS-compliant ENIG finish and is packaged on tape & reel or in matrix tray for high-volume automated manufacturing.





#### **Ground Plane Control**



# A8520E24A91GR

(Anaren)

(x 100MHz)

(CC2591)

#### A

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

Packaging

7

(G = General) (R = Reel, M = Matrix Tray)







(C1101, CC110L, CC2500, CC8520)

(R = radio only, E = Range Extender)

(A = Internal Antenna, C = Connector)

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