

A8520E24A91-EM2

Anaren Integrated Radio Evaluation Module Series

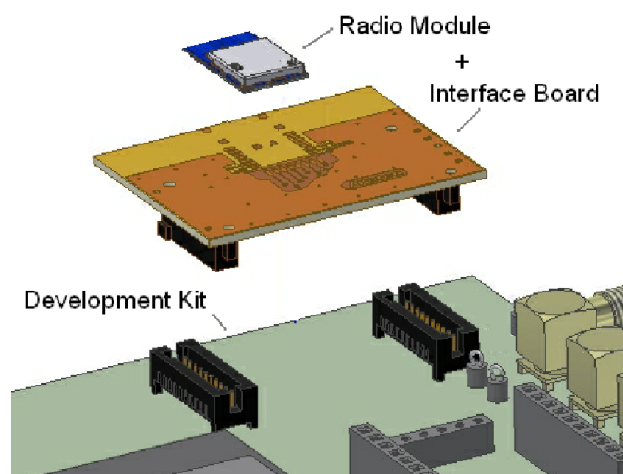
The A8520E24A91-EM2 is a high-performance, interface board with an FCC & IC certified and ETSI-compliant* A8520E24A91 audio module mounted for quick connection to the Texas Instruments CC8520DK Development Kit.

Product Overview

The A8520E24A91-EM1 is an evaluation module with an Anaren A8520E24A91 Audio Module in the industry's smallest package (11 x 19 x 2.5 mm) mounted on it. This evaluation module is designed specifically for compatibility with the Texas Instruments CC8520DK development kit. Each A8520E24A91 module incorporates the Texas Instruments CC8520 PurePath™ wireless audio SoC and CC2591 range extender.

As a stand-alone module for your final design implementation, Anaren's A8520E24A91 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.

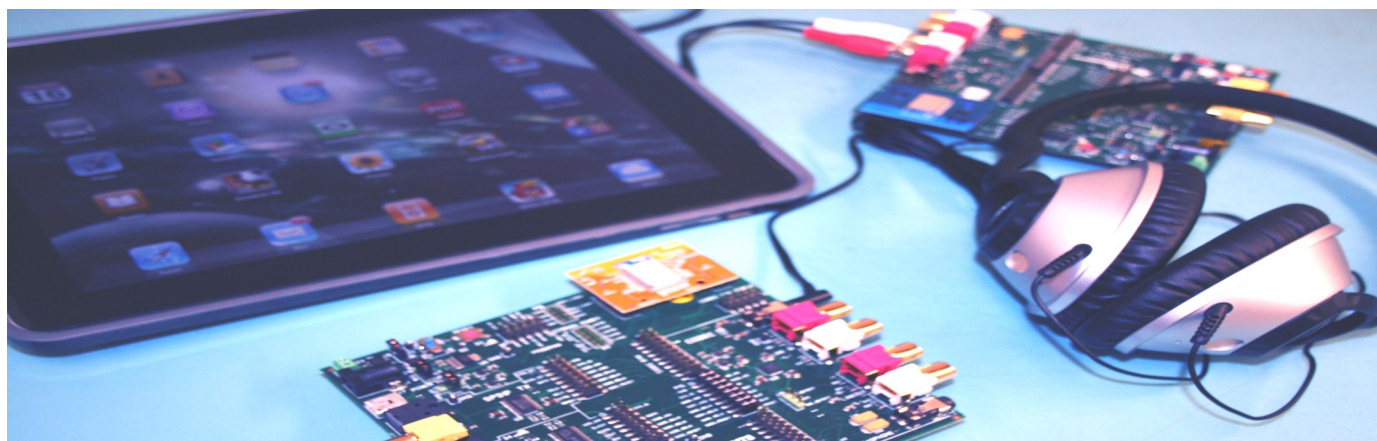
The A8520E24A91 has an RoHS-compliant ENIG finish and is packaged on tape & reel or in matrix tray for high-volume automated manufacturing.

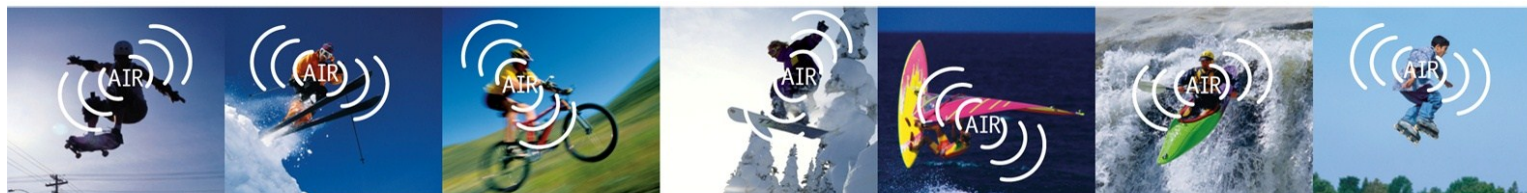


* See User's Manual for important information about versions that comply to the ETSI standards

Applications:

Consumer Audio, Professional Audio, Portable Audio, Digital

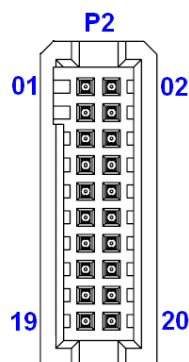
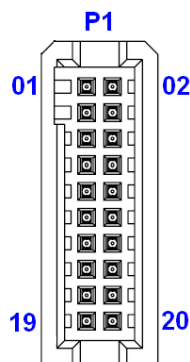




Anaren Integrated Radio

Pin Diagram

Development Kit Connectors



Connector P1		
Pin #	TI SDK	EM2
1	GND	GND
2	NC	NC
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
10	GIO1	GIO1
11	SDA	SDA
12	GIO2	GIO2
13	SCL	SCL
14	CSN	CS_N
15	GIO12	GIO12
16	SCLK	SCLK
17	GIO13	GIO13
18	MOSI	MOSI
19	GND	GND
20	MISO	MISO

Connector P2		
Pin #	TI SDK	EM2
1	NC	NC
2	GND	GND
3	1V8	IOVdd
4	NC	NC
5	VBAT	VBAT
6	AD2	GIO9/AD2
7	3V3	Vdd
8	AD1	AD1
9	3V3	Vdd
10	AD0	AD0
11	WCLK	WCLK
12	USBM	USBM
13	MCLK	MCLK
14	USBP	USBP
15	RSTN	RSTN
16	NC	NC
17	BCLK	BCLK
18	GIO3	GIO3
19	NC	NC
20	NC	NC

Nomenclature

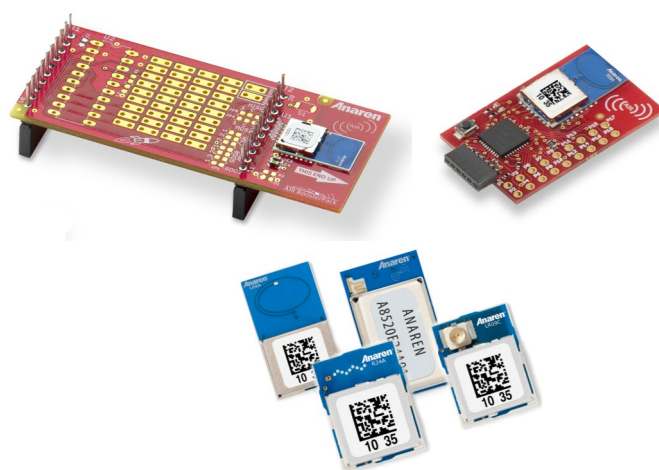
A8520E24A91-EM2

1 2 3 4 5 6

- | | |
|---|---|
| A | (Anaren) |
| 1 | Chip series (CC1101, CC110L, CC2500, CC8520) |
| 2 | Function (R = radio only, E = Range Extender) |
| 3 | Frequency band (x 100MHz) |
| 4 | Form factor (A = Internal Antenna, C = Connector) |
| 5 | Design ID (CC2591) |
| 6 | Application (EM = Eval Module) |

To view the entire available family of AIR Modules & Development options, please visit our website at:

<http://www.anaren.com/air>



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



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



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