Anaren Integrated Radio

Evaluation Module Series

A2500R24A-EM1

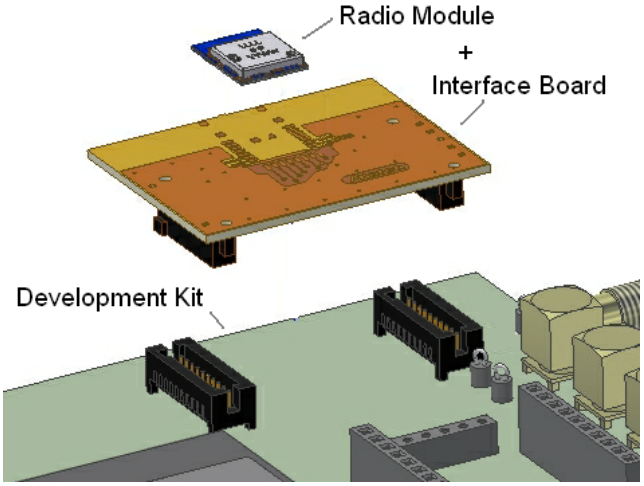
The A2500R24A-EM1 is a high-performance, interface board with an FCC-certified A2500R24A integrated antenna radio module mounted for quick connection to the Texas Instruments CC2500DK Development Kit.

Product Overview

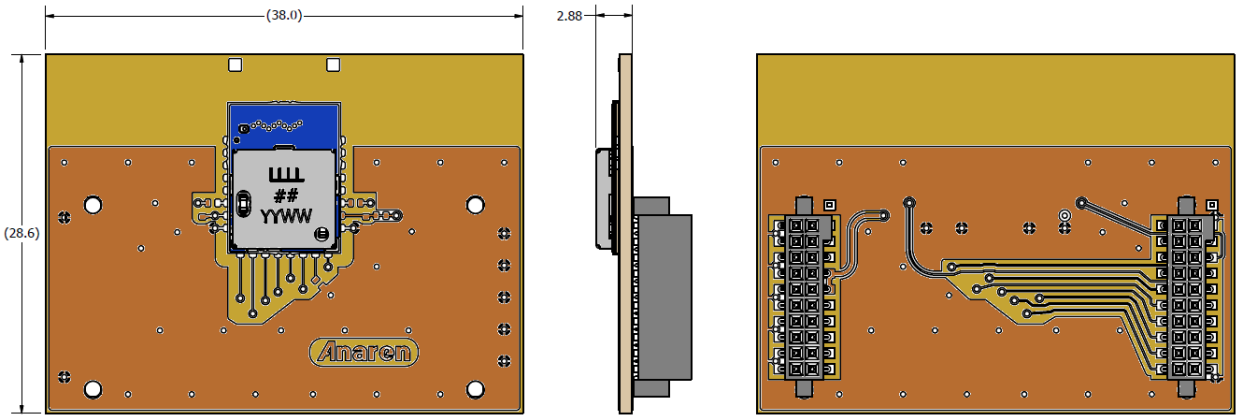
The A2500R24A-EM1 is an evaluation module with an Anaren A2500R24A radio module in the industry's smallest package (9 x 12 x 2.5mm) mounted on it. This evaluation module is designed specifically for compatibility with SmartRF®04, SmartRF®05 and Maverick evaluation boards, Each Anaren A2500R24A module is FCC-certified and incorporates the Texas Instruments CC2500 transceiver chip.

As a standalone module for your final design implementation Anaren's A2500R24A has an LGA pad footprint with an integrated antenna, 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 A2500R24A has an RoHS-compliant ENIG finish and is packaged on tape and reel for high-volume automated manufacturing



Layout



TI Developer Network
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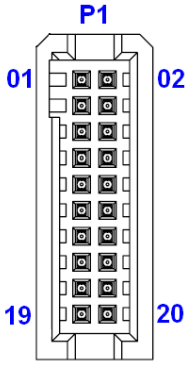
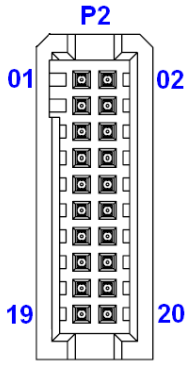
Pin Diagram

Development Kit Connectors





Connector P1

Pin 1	GND
Pin 2	NC
Pin 3	NC
Pin 4	NC
Pin 5	NC
Pin 6	NC
Pin 7	NC
Pin 8	NC
Pin 9	NC
Pin 10	GDO0/ATEST
Pin 11	NC
Pin 12	GDO2 (Debug)
Pin 13	NC
Pin 14	CSn
Pin 15	NC
Pin 16	SCLK
Pin 17	NC
Pin 18	SI
Pin 19	GND
Pin 20	SO/GDO1

Connector P2

Pin 1	NC
Pin 2	GND
Pin 3	NC
Pin 4	GND
Pin 5	NC
Pin 6	GND
Pin 7	VDD
Pin 8	GND
Pin 9	VDD
Pin 10	GND
Pin 11	NC
Pin 12	GND
Pin 13	NC
Pin 14	GND
Pin 15	NC
Pin 16	GND
Pin 17	NC
Pin 18	NC
Pin 19	NC
Pin 20	DD_DIR

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.

Nomenclature

A2500R24A-EM1

1 2 3 4 5

A		(Anaren)
1	Chip series	(1101, 2500)
2	Function	(R = radio only)
3	Frequency band	(x100MHz)
4	Form factor	(A = Internal Antenna, C = Connector)
5	Module Type	(EM1 = Eval Module, EZ4x = EZ-430 Module)

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

http://www.anaren.com/content/File/AIR/AIRoverview.cfm

PLEASE NOTE: Additional information on the Texas Instruments CC2500 Development Kit can be found in the company's latest datasheet release at http://www.ti.com

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

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