Chipsmall

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!

Contact us

Anaren Integrated Radio
EZ4x Module Series

A2500R24A-EZ4x

The A2500R24A-EZ4x is a high-performance demonstration platform, designed to showcase Anaren's family of FCC & IC certified and ETSI-compliant AIR Modules. It features an A2500R24A AIR 2.4 GHz module with integral antenna, and is designed to quickly connect to the Texas Instruments eZ430 Development Kit battery board or USB debugging interface
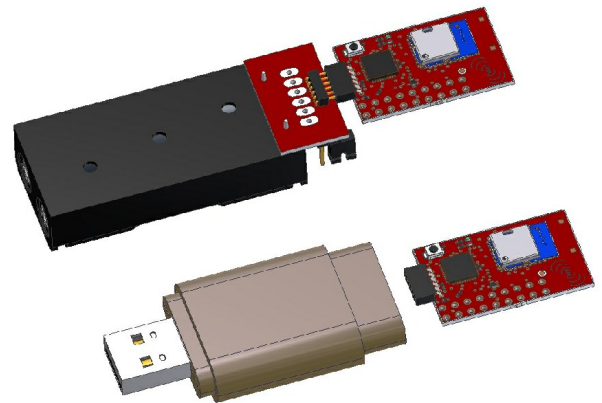
Product Overview

The A2500R24A-EZ4x is a target board assembly with the Anaren A2500R24A radio module in the industry's smallest package (9 x 12 x 2.5mm) mounted on it.
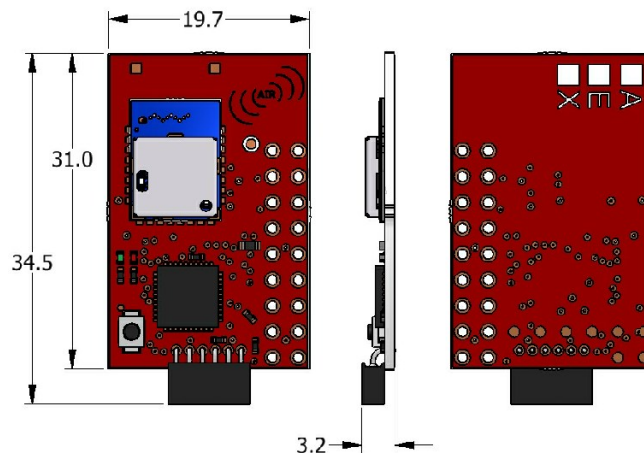
This module is fully compliant with Texas Instruments eZ430-RF2500 Development Kit, and plugs directly into either the battery board or USB debugging interface via the 6 pin header. It is designed to be a direct-replacement for the access point and end point target board modules included with the Texas Instrument eZ430-RF2500 Development Kit. Each Anaren A2500R24A Radio Module is FCC & IC certified, ETSI-compliant, and incorporates the Texas Instruments CC2500 transceiver chip.
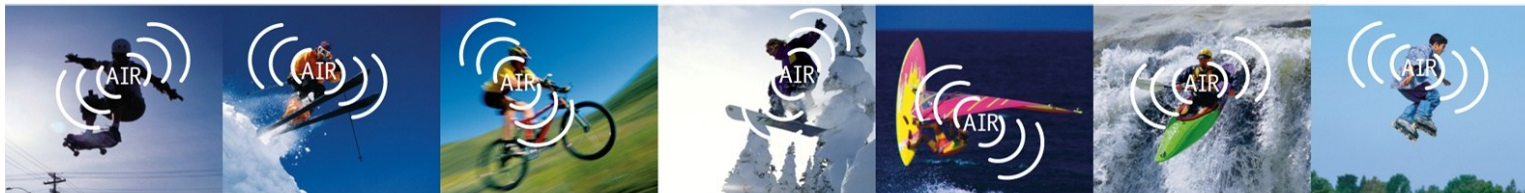
As a stand-alone module for your final design implementation, Anaren's A2500R24A has an LGA pad footprint with an integral printed antenna.

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.
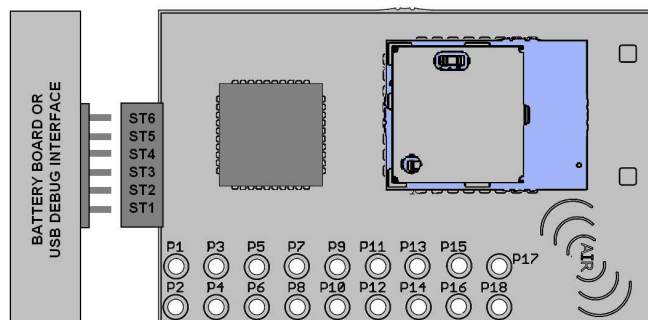

Layout

Pin Diagram

EZ4x Connections

Battery / USB:
ST1	P3.4 / UCA0TXD / UCA0SIMO
ST2	GND
ST3	RST / SBWTDIO
ST4	TEST / SBWTCK
ST5	VCC (3.6V)
ST6	P3.5 / UCA0RXD / UCA0SOMI

Interface:
P1	GND
P2	VCC
P3	P2.0 / ACLK / A0 / OA0I0
P4	P2.1 / TAINCLK / SMCLK / A1 /A0O
P5	P2.2 / TA0 / A2 / OA0I1
P6	P2.3 / TA1 / A3 / VREF– / VeREF–/ OA1I1 / OA1O
P7	P2.4 / TA2 / A4 / VREF+ / VeREF+/ OA1I0
P8	P4.3 / TB0 / A12 / OA0O
P9	P4.4 / TB1 / A13 / OA1O
P10	P4.5 / TB2 / A14 / OA0I3
P11	P4.6 / TBOUTH / A15 / OA1I3
P12	GND
P13	P2.6 / XIN (GDO0)
P14	P2.7 / XOUT (GDO2)
P15	P3.2 / UCB0SOMI / UCB0SCL
P16	P3.3 / UCB0CLK / UCA0STE
P17	P3.0 / UCB0STE / UCA0CLK / A5
P18	P3.1 / UCB0SIMO / UCB0SDA

This product is not to be used in any implantable medical device or external medical device intended to regulate or monitor biological functions, including but not limited to devices such as pacemakers, defibrillators, cardiac resynchronization devices, pressure sensors, biochemical stimulators and neurostimulators. ANAREN MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY OF THIS PRODUCT FOR ANY USE OF THIS TYPE. Anaren shall not be responsible for any consequential damages arising from the sale or use of this product for any use of this type. The ultimate user of the product assumes all risk of personal injury or death arising from a prohibited use.
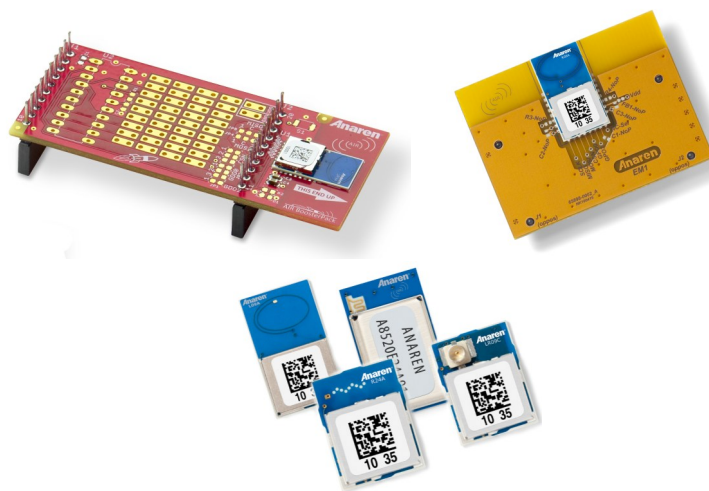
Nomenclature

A2500R24A-EZ4X
①   ② ③ ④   ⑤   ⑥

	A	(Anaren)
1	Chip series	(CC1101, CC110L, CC2500)
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)
6	Firmware (EZ4 only)	(A = Access Point, E = End Point, X = Custom (or no firmware)

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 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.

TEXAS INSTRUMENTS
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