



Anaren Integrated Radio (AIR) modules

AIR™



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What'll we think of next?®



Introducing Anaren Integrated Radio (AIR) modules



The fastest & easiest way to get your wireless product off the ground!

Welcome to a whole new and far simpler way to bring wireless capability to your product: Anaren Integrated Radio modules (we call them AIR modules). Whether your goal is designing a wireless version of a currently “wired” product – or developing a wireless product from the ground up – AIR modules are the industry’s easiest, most elegant, and most cost-effective way to implement RF capability.

Leveraging Anaren’s decades of experience in microwave and RF technology and Texas Instruments’ world-renowned semiconductor technology, AIR offers you these top-level advantages:

- > Easy integration/implementation on existing, two-layer PCB
- > Tiny common footprints across the product line, based on module functionality
- > Pre-certified to FCC/IC and ETSI compliant as applicable
- > Choose embedded or connectorized antenna
- > 100% RF-tested in production
- > Low power consumption
- > A wide and fast-growing choice of frequencies based on Texas Instruments low-power RF chip technology

To learn more about Anaren Integrated Radio (AIR) modules – or obtain samples, test boards, specifications, pricing, and more – contact your distributor, email AIR@anaren.com, visit www.anaren.com/AIR, or call 800-411-6596 today.



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Ideally suited for these & many other applications!



AIR modules are a fit for a wide range of applications, including lighting control, sensors, medical devices and systems, and home automation/smart grid tasks. Simply let us know what you're working on – and how you expect your radio application to work – and we'll tell you if AIR modules are a possibility!

To find out if AIR is right for your application:

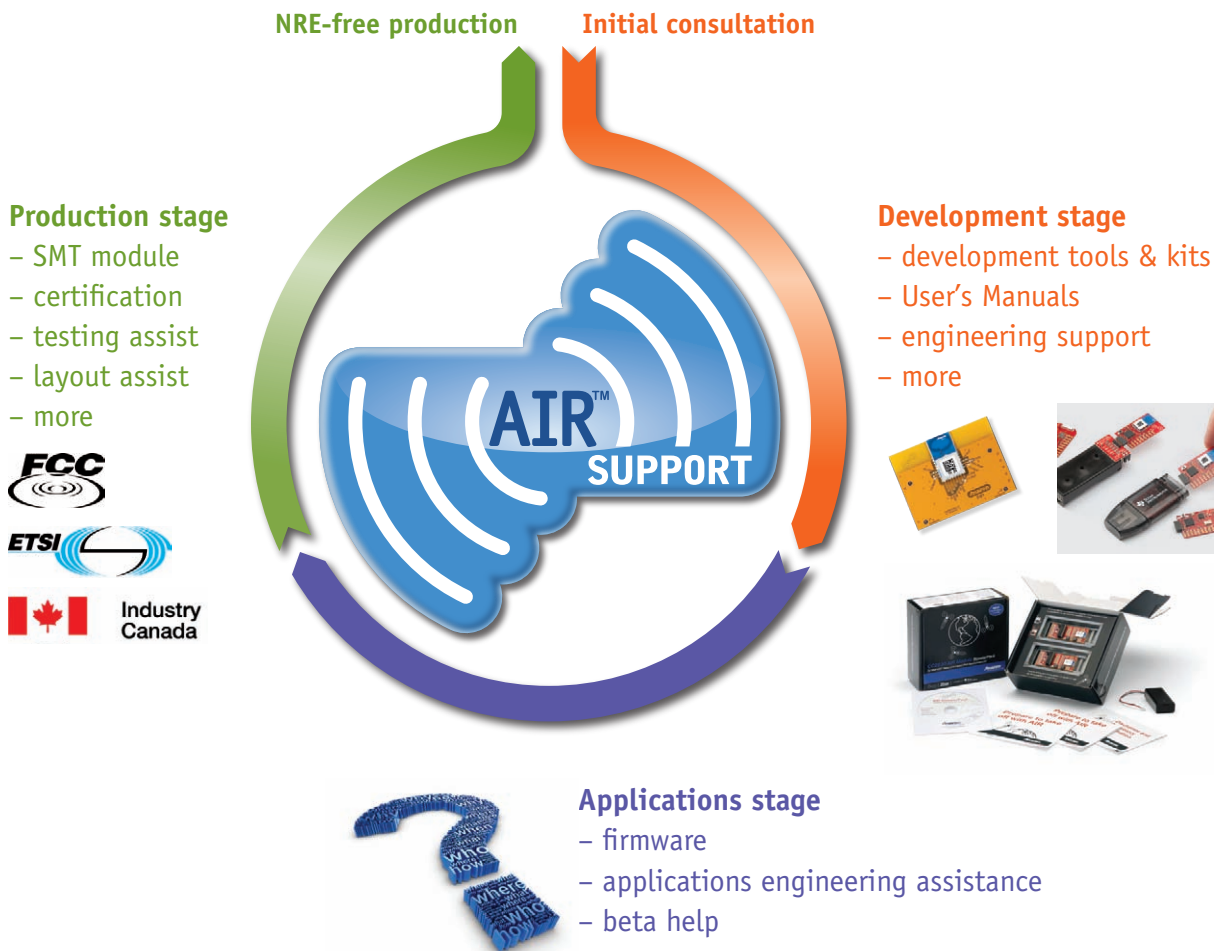
- > Email **AIR@anaren.com**
- > Visit **www.anaren.com/AIR**

Want to source your AIR modules now?
See **www.anaren.com/AIR** for
our current list of stocking distributors!



Let AIR Support help you through the entire AIR module implementation process!

As elegant and easy-to-use as our Anaren Integrated Radio (AIR) modules are – we know from experience that our customers appreciate a “full circle” of support to help deploy our AIR modules in an end application. That’s why we’ve introduced **AIR Support** to help you with honest advice, development tools, and truly useful information at every step of the way: from the Development stage, to the Applications stage, all the way through the Production stage.



PART NO.	IMAGE	BAND	REGULATORY APPROVALS Europe ETSI N. America FCC IC			EM BOARD (use w/TI's development kit)	EZ4x TARGET BOARDS (use w/TI's EZ430-RF2500 kit)	BOOSTERPACK (use with TI's LaunchPad development kit)
  								
PROPRIETARY RF								
 A1101R04C		433MHz	ETSI			✓	✓	
 A1101R08A		868MHz	ETSI			✓	✓	A1101R08A-LPF
 A1101R08C						✓	✓	
 A1101R09A		915MHz		FCC	IC	✓	✓	A1101R09A-LPF
 A1101R09C						✓	✓	
 A110LR09A		Dual band: 868 & 915MHz Value Line	ETSI	FCC	IC	✓	✓	430B00ST-CC110L (available exclusively through TI's e-Store)
 A110LR09C						✓	✓	
 A2500R24A		2.4GHz	ETSI	FCC	IC	✓	✓	A2500R24A-LPF
 A2500R24C						✓	✓	
ZIGBEE®								
 A2530E24AZ1		2.4GHz	ETSI	FCC	IC	✓		A2530E24A-LPZ
 A2530E24CZ1						✓		
 A2530R24AZ1		2.4GHz	ETSI	FCC	IC	✓		A2530R24A-LPZ
 A2530R24CZ1						✓		
BLUETOOTH® SMART*								
 A2541E24AXX		2.4GHz	ETSI	FCC	IC	✓		A2541E24A-ADB1
 A2541E24CXX						✓		
 A2541R24AXX		2.4GHz	ETSI	FCC	IC	✓		A2541R24A-ADB1
 A2541R24CXX						✓		
PUREPATH™ AUDIO								
 A8520E24A91		2.4GHz	ETSI	FCC	IC	✓		
ANTENNAS								
 66089-xxxx	 Various sizes available for connectorized modules							

A110LR09A00GR

1 2 3 4 5 6 7

*For modules pre-loaded with TI's BLE-Stack, add "10" to part number (eg: A2541x24x10); for modules pre-loaded with AIR B-Smart (Emmoco) firmware, add "20" (eg: A2541x24x20)

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

Anaren
CC1101, CC110L, CC2500, CC2530, CC2541, CC8520, etc.
E = Range Extender; R = No Range Extender
x100MHz
A = Internal Antenna, C = Connector
For proprietary RF modules: 00 = NA
For ZigBee® modules: Z1 = Anaren AIR ZNP
For Bluetooth® SMART modules:
10 = TI BLE-Stack®; 20 = Anaren/Emmoco B-Smart Firmware
G = General
R = Tape/Reel, M = Matrix Tray

- 6 Application
- 7 Packaging

Development Tools



If you are developing your wireless solution using TI's MSP430, TIVA C, or C2000 LaunchPad development kits, we have good news: Anaren is committed to offering a growing range of AIR module-equipped BoosterPacks that will be fully compatible with the easy-to-use, powerful LaunchPad development environment. To learn more or see the current listing of AIR BoosterPacks – and distributors where you can obtain them – visit www.anaren.com/AIR today!



For your convenience, AIR modules are available on evaluation boards ("EM") for use with Texas Instruments' DK development kits. To learn more or obtain the appropriate AIR "EM" board, contact your nearest distributor or email AIR@anaren.com today.



Some AIR modules are available for use with TI's EZ430-RF2500 development kit: Simply select your band, swap out TI's supplied target boards with the appropriate AIR "eZ" target boards, and you can begin testing and evaluation. For more information or to order your AIR "eZ" target board set, contact your nearest distributor or email AIR@anaren.com right now.

Packaging



AIR modules come on standard tape and reel for fast, efficient use in your pick and place system – or in handy, small-quantity matrix trays. Just specify your packaging choice when ordering from your distributor.

For support, contact:



AIR@anaren.com
800-411-6596
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