



Anaren Integrated Radio (AIR)

Low-power RF modules, firmware & development tools that make it easy to 'go wireless'

MSDK Series

The Multi-Sensor Development kit (A20737A-MSDK1) and *Atmosphere* the innovative online development tool is designed to create all the embedded code and target mobile device applications needed to wirelessly connect and communicate to an embedded Anaren *Bluetooth*® Smart module. It features the A20737A AIR module, which uses Broadcom's BCM20737 chip. The A20737A AIR module is Globally certified*, and is *Bluetooth* SIG qualified.

* Global certification is an ongoing process, please call for confirmation regarding your specific locations



A20737A-MSDK1

Features

- Includes Multi-Sensor Development Board featuring an Accelerometer, a Magnetometer, an IR Temperature Sensor, a Buzzer, a Tri-color LED, a Joy Stick, and a Coin Cell Battery holder
- One USB 2.0 cable (Type A to Micro-B)
- Two Single row pin headers can be soldered down to gain access to all the pins in the A20737A module
- Incorporates Broadcom's BCM20737
- Tiny 11x13x2.5 mm footprint of the A20737A AIR module
- Pre-certified to FCC/IC and ETSI compliant
- Low power consumption
- Anaren's exclusive online development tool, *Atmosphere*
- *Atmosphere* generates and loads the embedded code on the Multi-Sensor Development Board, and creates an app that can be loaded onto a *Bluetooth* Smart mobile device



Applications are written with an easy-to-use graphic programming tool that includes a method for designing the layout of the app screen and the on board software

Benefits

- Provides GOOBE "great out of the box" wireless connectivity for easier development of applications based on the *Bluetooth* Smart standard.
- Provides an excellent educational/development tool for all levels of *Bluetooth* Smart expertise – as well as a clear, easy-to-understand migration path from development to production.
- Part of *Atmosphere*, a total solution from Anaren that includes development tools, firmware, applications support, and more.



Applications

Industrial controls and monitoring, remote controls, home/building automation, lighting systems, low power wireless sensor networks, and consumer electronics, sports monitoring, health & wellness, among many others

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What'll we think of next?®

This member of the AIR family of wireless solutions is supported by Anaren's *Atmosphere* online development tool and features semiconductor technology from Broadcom.

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Module family overview



General:

- 2.4-GHz RF transceiver incorporating *Bluetooth* Smart technology
- 1.7 to 3.6V operation
- Operating temperature -30°C to $+85^{\circ}\text{C}$
- Integrated ARM Cortex-M3 microprocessor core
- 512-Kbit EEPROM
- Programmable output power up to $+3\text{dBm}$
- Low Current Consumption (3.3V)
 - ◆ 25mA in Rx and 20mA in Tx @ $+3\text{dBm}$
 - ◆ 17mA in Tx @ -1dBm
- Typical sleep current $2\mu\text{A}$ @ 3.3V
- Excellent receiver sensitivity, -94dBm average with $<1\%$ BER
- Infrared modulator
- 10-Bit auxiliary ADC with nine analog channels
- Support for secure OTA updates
- Integrated LDO
- Supports SPI, I²C, PWM, UART and GPIO peripheral interfaces
- RoHS Compliant
- Shielded package with an integrated antenna
- LGA Footprint
- Small package size: 11mm x 13mm x 2.5mm
- Approximate weight 0.5 grams
- Certified/compliant for use Worldwide*



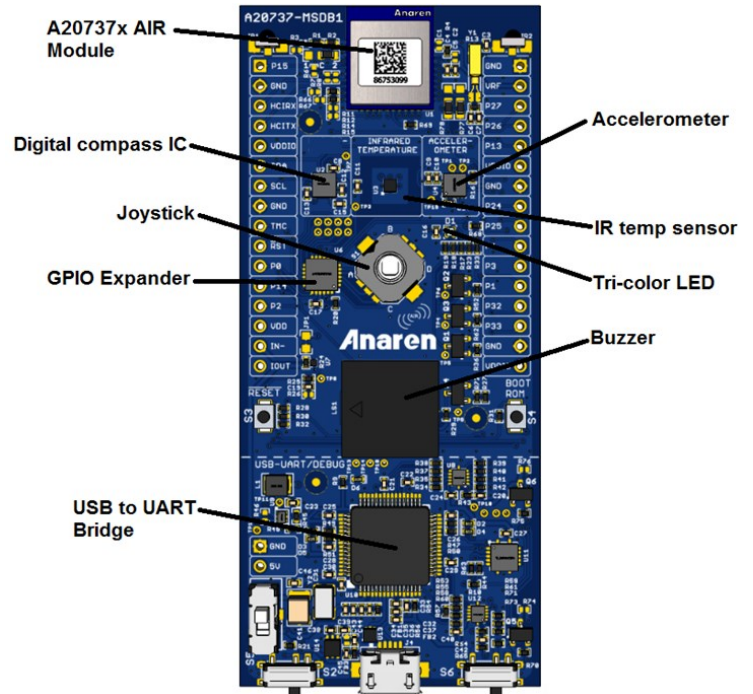
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IMPORTANT: The Multi-Sensor Development (A20737x-MSDK1) kit is a tool to aid in the development and testing of wireless communication applications; please contact Anaren if you will be using in the production of wireless end-products.

Layout information

Multi-Sensor Development Board features shown below; see User's Manual for more information.



PLEASE NOTE:

- Additional information on Anaren's exclusive development tool, *Atmosphere* can be found at <https://atmosphere.anaren.com>
- Additional information on the Broadcom's BCM20737 can be found at <http://www.broadcom.com/wiced>

Nomenclature

A20737A-MSDK1

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A	Manufacturer	Anaren
1	Chip series	20737
2	Form factor	A = Internal Antenna, C = Connector
3	Description	MSDK = Multi-Sensor Development Kit



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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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