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Anaren Atmosphere Wi-Fi Cloud IoT Development Kit

The Wi-Fi Cloud IoT Development Kit by Anaren is the ideal development platform for adding Wi-Fi connectivity to your embedded device.

Using the Wi-Fi Cloud IoT Development Kit alongside access to the Anaren Atmosphere™ online development suite and Atmosphere Cloud™ hosting client, Anaren provides a cohesive sensor-to-server ecosystem for developing Wi-Fi applications.

The ability to develop and test projects for the Anaren AIR for Wi-Fi A43364 module has arrived with the Wi-Fi Cloud IoT Development Kit. The kit uses a stacked design featuring two separate boards: the A43364 Development Board that embeds the A43364 module, and the Multi-Sensor Shield that includes a variety of sensors used to test various peripherals. The A43364 is a high-performance, low-power Wi-Fi module based on the Cypress CYW43364 chipset, is IEEE 802.11b/g/n compliant, and meets worldwide regulatory and certification requirements.*

The A43364 Development Board and Multi-Sensor Shield both feature an Arduino-compatible footprint -- able to be plugged into an Arduino as a Wi-Fi shield and sensor shield, respectively -- and either one can be used individually with an Arduino for complete cross-platform compatibility.

Offering the ideal Wi-Fi development solution, the kit is used with Anaren Atmosphere, Anaren's innovative cloud-based development environment and Atmosphere Cloud hosting client. Using these tools together, the Wi-Fi Cloud IoT Development Kit provides a complete rapid prototyping IoT toolkit for faster development and quicker time to deployment.

Features

- A43364 Development Board: Embeds an AIR for Wi-Fi A43364 Wi-Fi module
- The A43364 module features a Cypress CYW43364 system on chip, and is the first module of its kind to incorporate the STMicroelectronics STM32F412 ARM® Cortex®-M4-based microcontroller with 1MB flash memory and 256KB SRAM
- Multi-Sensor Shield: Includes several sensors for fast and easy interaction, featuring an accelerometer, digital compass, joystick, infrared temperature sensor, tri-color LED, and buzzer
- USB 2.0 cable (type A to micro B)
- External power adapter
- Quick Start Guide

Benefits

- Provides a great out-of-the-box experience complete with a sample app for easy sensor demonstration
- The A43364 Development Board and Multi-Sensor Shield both feature an Arduino-compatible footprint for cross-platform compatibility
- Provides an excellent development tool for all levels of Wi-Fi expertise

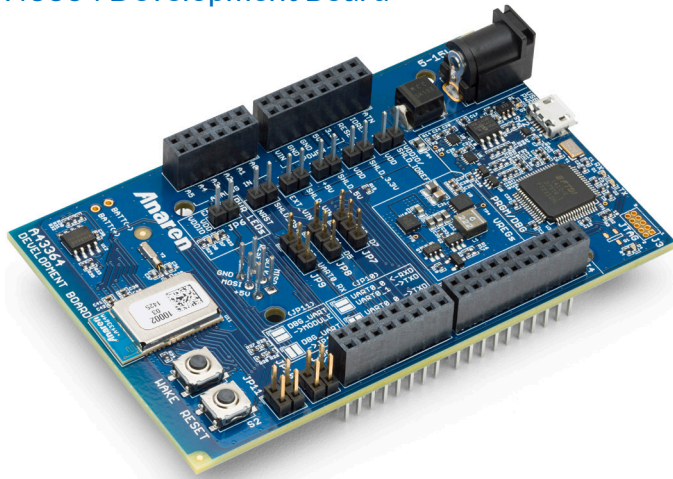
* Global certification is an ongoing process; please call for confirmation regarding specific locations.

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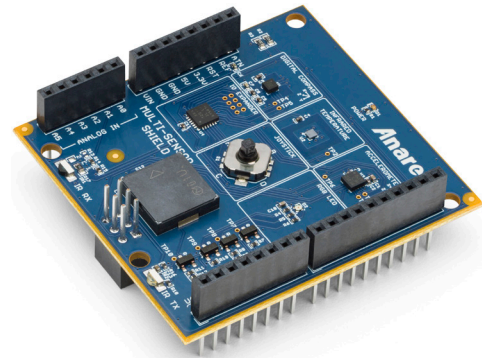
A43364 Development Board



In addition to embedding the module, the A43364 Development Board includes several other features:

- Support for various peripheral interfaces, including UART, SPI, I²S, I²C, USB, CAN, JTAG, GPIO, and ADC
- Arduino-compatible footprint allows the board to act as a Wi-Fi shield while it is plugged into an Arduino
- The numerous jumpers can be connected directly to the same Arduino pins for cross-platform functionality

Multi-Sensor Shield



The Multi-Sensor Shield contains each of the various sensors used for quickly and easily demonstrating interaction through demos and example projects. In addition to the included sensors, the Multi-Sensor Shield also features:

- A GPIO expander
- Arduino-compatible footprint, so the shield can be plugged into and used with other Arduino boards

Use Anaren Atmosphere and the Atmosphere Cloud to develop projects and test a variety of sensors with the Wi-Fi Cloud IoT Development Kit.



ATMOSPHERE

Atmosphere is an easy-to-use and innovative development suite consisting of a free cloud-based Atmosphere IDE, programming software, and mobile app. The Atmosphere IDE features a unique “drag-and-drop” interface that allows users to quickly and easily develop firmware for the module and simultaneously create a browser interface to interact with the module.

Atmosphere includes the Atmosphere Cloud™, a freemium cloud hosting client that sends and receives data between the A43364 module and the cloud. The cloud is completely customizable and can host your supported devices for data analysis, information, monitoring, and much more.

The A43364 module series and Atmosphere allows you to quickly and easily develop a complete IoT solution. For more information on the Atmosphere development platform, visit atmosphere.anaren.com.

