

## **Inventek Systems Launches Innovative IoT Module with Advanced STM32U575 Microcontroller and CYW4343x Wireless Radio Using a Compact 10x10 mm Package**

(Need data sheet added to our website so we can show the link.)

(Also show links to AIROC and STM32CubeMX and GitHub)

Inventek Systems announces the release of its new Wi-Fi and Bluetooth Low Energy (BLE) combo module, based on the ST Microelectronics STM32U575 microcontroller and the Infineon CYW4343x wireless radio. This module offers a compact and cost-effective solution for adding wireless connectivity to a wide range of devices. Inventek is excited to offer a solution that combines this leading edge microcontroller and Infineon radio in the smallest package at a competitive price.

The STMicroelectronics STM32U5 series offers advanced power-saving features, based on Arm® Cortex®-M33 to meet the most demanding power/performance requirements for smart applications, including wearables, HMI, personal medical devices, home automation, and industrial sensors.

Offering 4 Mbytes of flash memory and 786 Kbytes of SRAM, the STM32U5 microcontroller takes performance to the next level with advanced graphics capabilities.

The STM32U5 series provides greater integration and memory capabilities to maximize performance. Ultra-low power, it is the first 32-bit MCU embedding a flash memory, up to 4 Mbytes.

The U575 microcontroller provides a powerful platform for running the module's firmware, as well as managing the communication between the module and the host device. The CY4343x wireless radio, on the other hand, is also a highly integrated solution that combines a 2.4GHz radio and a baseband processor. It supports the latest Wi-Fi standards, including 802.11b/g/n, and is designed to provide reliable and secure wireless connectivity for IoT devices. In addition, it supports Bluetooth Low Energy (BLE) which enables the ISM4343-WBU-L151 to be used for a wide range of IoT applications, including home automation and industrial automation.

With this module, Inventek Systems can deliver a highly integrated wireless solution, with support for popular Internet of Things (IoT) protocols such as MQTT and HTTP, making it easy to connect to cloud platforms and other IoT services. The module also offers a high level of flexibility and customization, thanks to the U575 microcontroller and the provided software development kit.

The product is supported by [Infineon's AIROC™ Wireless Connectivity Platform](#) and [ST Microelectronics STM32CubeMX Development Platform](#), a software extension that is compliant with the CMSIS-Pack standard established by Arm, making it easy for users to select and configure the product for their designs.

The new combo module is perfect for a wide range of applications, including home automation, industrial automation, healthcare, smart lighting, and more. Its small size, low power consumption, and ease of integration, making it an ideal solution for developers looking to add wireless connectivity to a host of projects.

The module is certified for North America, Europe, and Japan at the present time.

Inventek Systems is committed to providing high-quality and reliable wireless solutions for the IoT market and this new module is a testament to that commitment. The Wi-Fi and BLE combo module and Development Kit are now available at Inventek's franchised distributors.

**Ordering Part Numbers: ISM4343-WBU-L151 and ISM4343-WBU-L151-EVB**

**Distributors: DigiKey, Mouser, Avnet, Arrow, Future Electronics and Texim-Europe**

**Pricing: The 10,000 piece unit price is \$7.00.**