

Advantech LoRaWAN™ Certified WISE-1510 M2.COM Sensor Node for LPWA IoT Application Deployment

September 28, 2017, Munich –Advantech, a global leader in embedded computing and IoT technology, is pleased to announce its highly standardized M2.COM IoT LoRaWAN™ certified sensor node [WISE-1510](#) with integrated Arm Cortex-M4 processor and LoRa transceiver: The WISE-1510 provides multi-interfaces for sensors and I/O control such as UART, I2C, SPI, GPIO, PWM, and ADC.

Powered by LoRa technologies and features, WISE-1510 sensor node is ideal for smart cities, agriculture, metering, street lighting and environment monitoring. With power consumption optimization and wide area coverage, LoRa sensors or applications with low data rate requirements can achieve years of battery life and kilometers of long distance connection.

Flexible LoRaWAN and Private LoRa Network for Multiple Usages

[WISE-1510](#) is flexible enough to support either public LoRaWAN networks or private LoRa eco-systems. WISE-1510 has received LoRaWAN™ certification from the [LoRa Alliance](#).

Depending on deployment requirements, developers can select to use Public LoRaWAN network services or build a private LoRa system using [WISE-3610](#) LoRa IoT gateway. Advantech's [WISE-3610](#) is a Qualcomm Arm Cortex A7 based hardware platform with private LoRa ecosystem solution that can connect up to 500 [WISE-1510](#) sensor node devices. Powered by Advantech's WISE-PaaS IoT Software Platform, [WISE-3610](#) features automatic cloud connection through its WISE-PaaS/WISE Agent service, manages wireless nodes and data via WSN management APIs, and helps customers streamline their IoT data acquisition development through sensor service APIs, and WSN drivers.

Integrated HW and SW Solutions

Developers can leverage microprocessors on [WISE-1510](#) to build their own applications. [WISE-1510](#) offers unified software—Arm Mbed OS and SDK for easy development with APIs and related documents. Developers can also find extensive resources from [\[CG1\]](#) Github such as code review, library integration, and free core tools. [WISE-1510](#) also offers worldwide certification which allow developers to leverage their IoT devices anywhere. Using Advantech's [WISE-3610](#) LoRa IoT Gateway, WISE-1510 can be connected to WISE- PaaS/RMM or Arm Mbed Cloud service with IoT communication protocols including LWM2M, CoAP, and MQTT. End-to-end integration assists system integrators to overcome complex challenges and helps them build IoT applications quickly and easily.

For more information regarding [WISE-3610](#) LoRa IoT gateway, [WISE-1510](#) M2.COM LoRa Sensor node and [WISE-DK1510](#) LoRa Node Starter Kit, please contact your local sales person or visit the Advantech website (www.advantech.com) for more details.

WISE-1510 Product Features and Specifications:

- Arm Cortex-M4 core processor
- Compatible support for public LoRaWAN or private LoRa networks
- Great for low power/wide range applications
- Multiple I/O interfaces for sensor and control
- Supports wide temperatures -40 ~ 85 °C

About Embedded-IoT Group

As a leader in the embedded market, Advantech Embedded-IoT Group not only delivers a wide range of embedded design-in services, but also develops a series of integrated IoT solutions and services to assist customers approaching the IoT market wanting minimal uncertainty and risk. Advantech Integrated IoT solutions include sensor nodes, gateways, and WISE-PaaS IoT software platforms. [Embedded-IoT.advantech.com](#)

About Advantech

Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Our mission is to enable an intelligent planet with Automation and Embedded Computing products and solutions that empower the development of smarter working and living. With Advantech, there is no limit to the applications and innovations our products make possible. (Corporate Website: www.advantech.eu).