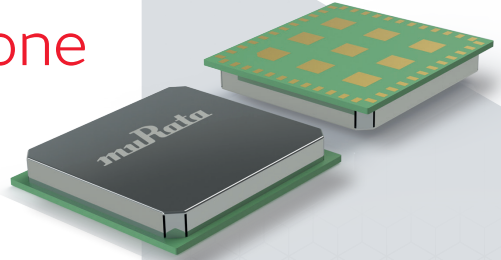


New ultra-compact, low-cost standalone LoRa module



Murata CMWX1ZZABZ-078 module

New, compact, low-cost, low-power-wide- area-network (LPWAN) wireless module that supports the LoRaWAN long range wireless protocol

- **12.5 x 11.6 x 1.76 mm** metal shielded package
- Comprises a **Semtech SX1276 ultra long range spread spectrum wireless transceiver** and an **STMicro STM32L0 series ARM Cortex M0+ 32 bit microcontroller (MCU)**
- Communication with the module can be achieved via **UART, SPI, or I²C peripheral interfaces**
- Includes **192kB flash** and **20kB RAM**, and an optional **STSAFE** secure element can be incorporated into the MCU to enhance the network security capabilities
- Pre-certified radio regulatory approvals for operating in the 868 and 915 MHz industrial, scientific and medical (ISM) spectrum in most geographical regions of the world
- Accommodating a wide range of temperatures, the module can operate from -40°C to +85°C
- Typical applications for this module include smart metering, wearables, tracking, M2M and internet of things (IoT) edge nodes

Typical applications

- **Smart metering**
- **Wearables**
- **Tracking**
- **M2M**
- **IoT edge nodes**