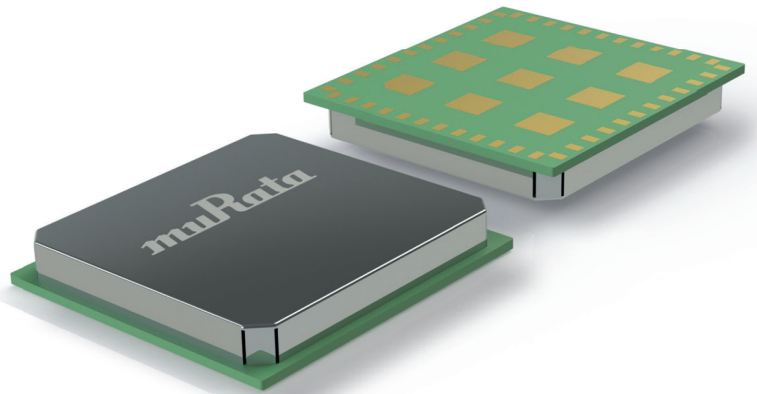


# New ultra-compact, low-cost standalone LoRa module

AVNET<sup>®</sup> ABACUS



## 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, I2C or GPIOs peripheral interfaces
- Includes open 192kB flash and 20kB RAM, and an optional STSAFE secure element can be incorporated into the MCU to enhance the network security capabilities
- FCC, IC, CE(R&TTE) certification
- 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