

Product Brief

Type 1MW Module

Wireless connectivity module

Shielded ultra-small dual band WiFi 11a/b/g/n/ac with Bluetooth 5.0 module

Features

- 2.4GHz & 5 GHz WiFi+Bluetooth module
- Network topology: AP and STA dual mode
- Chipset: Infineon (CYW43455)
- Processor: No
- Modulation: DSSS / CCK / OFDM
- FCC/IC "reference" certified

High performance capabilities for IoT

- For Industrial IoT, smart home, audio/video/voice, gateway
- 802.11 a/b/g/n/ac 1x1 433Mbps
- NXP i.MX Linux and FreeRTOS, Infineon WICED

Description

Type 1MW is a small and very high performance module based on Infineon CYW43455 combo chipset which supports WiFi 802.11a/b/g/n/ac + Bluetooth 5.0 BR/EDR/LE up to 433Mbps PHY data rate on Wifi and 3Mbps PHY data rate on Bluetooth. The WLAN section supports SDIO v3.0 interface and the Bluetooth section supports high-speed 4-wire UART interface and PCM for audio data.

The CYW43455 implements highly sophisticated enhanced collaborative coexistence hardware mechanisms and algorithms, which ensure that WLAN and Bluetooth collaboration is optimized for maximum performance.

In IEEE 802.11ac mode, the WLAN operation supports rates of MCS0 - MCS9 (up to 256 QAM) in 20MHz, 40MHz and 80MHz channels for data rate up to 433Mbps.

Type 1MW module is packaged in an impressively small form factor that facilitates integration into size- and power-sensitive applications such as IoT applications, handheld wireless system, gateway and more. RF matching, antenna design and regulatory certification are already taken care of and tested.

For more details see: <https://wireless.murata.com/type-1mw.html>



Part number: LBEE5HY1MW



Actual size
(7.9 x 7.3 x 1.1 mm)

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