

Type 1ZM module

Wireless connectivity module

Shielded ultra-small dual band Wi-Fi® 11a/b/g/n/ac + Bluetooth® 5.1 module

Features

- 2.4GHz & 5 GHz Wi-Fi® + Bluetooth® module
- Network topology: uAP and STA dual mode
- Chipset: NXP 88W8987
- Processor: No
- Modulation: DSSS / CCK / OFDM
- FCC/CE/IC/TELEC '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, Android, MCUXpresso/FreeRTOS

Description

Type 1ZM is a small and very high performance module based on NXP 88W8987 combo chipset which supports Wi-Fi® 802.11a/b/g/n/ac + Bluetooth® 5.1 BR/EDR/LE up to 433Mbps PHY data rate on Wi-Fi® and 3Mbps PHY data rate on Bluetooth®. The WLAN section supports SDIO 3.0 interface and the Bluetooth® section supports high-speed 4-wire UART interface and PCM for audio data.

The 88W8987 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.

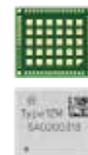
Type 1ZM module is packaged in an impressively small form factor that facilitates integration into size- and power-sensitive applications such as IoT applications, handheld wireless system, gateway and more.

More details:

- <https://wireless.murata.com/type-1zm.html>



Size: 10.2 x 9.3 x 1.3mm



Actual size

Type 1ZM Specifications

Murata part number	LBEE5QD1ZM-572
Embedded Artists M.2 module P/N	EAR00364
Technology	Wi-Fi + Bluetooth
Chipset	NXP 88W8987
Wi-Fi specification	802.11a/b/g/n/ac
Bluetooth specification	5.1
Frequency (GHz)	2.4 & 5
Hosted/Hostless architecture	Hosted
Software	Linux, Android, MCUXpresso
Wi-Fi interface	SDIO 3.0
Bluetooth interface	UART
MAX data rate - Wi-Fi (Mbps)	433
MAX data rate - Bluetooth (Mbps)	3
Interface voltage (V)	1.8
Operating temp. Range (°C)	-30 to +85
Antenna configuration	PCB trace antenna or U.FL connected patch antenna
Regulatory certification	FCC/IC, CE, MIC

Note: CE marking and declaration should be done by customer as a final product