

Type 1YM module

Wireless connectivity module

Shielded ultra-small dual band Wi-Fi® 11a/b/g/n/ac 2x2 MIMO + Bluetooth® 5.2 module

Features

- 2.4GHz & 5 GHz Wi-Fi® + Bluetooth® module
- Network topology: uAP and STA dual mode
- Chipset: NXP 88W8997
- Processor: No
- Modulation: DSSS / CCK / OFDM
- FCC/CE/IC/TELEC 'reference' certified

Flexible solution for IoT

- For Industrial IoT, smart home, audio/video/voice, gateway
- 802.11 a/b/g/n/ac 2x2 MIMO 866Mbps
- NXP i.MX Linux, Android

Description

Type 1YM is a small and very high performance module based on NXP 88W8997 combo chipset which supports Wi-Fi® 802.11a/b/g/n/ac 2x2 MIMO + Bluetooth® 5.2 BR/EDR/LE up to 866Mbps PHY data rate on Wi-Fi® and 3Mbps PHY data rate on Bluetooth®.

The WLAN section supports PCIe 3.0 interface, with optional support for SDIO 3.0 and USB 3.0 interfaces. The Bluetooth® section supports high-speed 4-wire UART interface (optional support for USB/SDIO) and PCM for audio data.

The 88W8997 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 866Mbps.

Type 1YM 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-1ym.html>



Size: 11.8 x 8.4 x 1.3mm



Actual size

Type 1YM Specifications

Murata part number	LBEE5XV1YM-574
Embedded Artists M.2 module P/N	EAR00370
Technology	Wi-Fi + Bluetooth
Chipset	NXP 88W8997
Wi-Fi specification	802.11 a/b/g/n/ac 2x2 MIMO
Bluetooth specification	5.2
Frequency (GHz)	2.4 & 5
Hosted/Hostless architecture	Hosted
Software	Linux, Android
Wi-Fi interface	PCIe, SDIO 3.0
Bluetooth interface	UART
MAX data rate - Wi-Fi (Mbps)	866
MAX data rate - Bluetooth (Mbps)	3
Interface voltage (V)	1.8 or 3.3
Operating temp. Range (°C)	-30 to +85
Antenna configuration	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