Product Brief

Type 2EA Module

Wireless Connectivity Module

Shielded ultra-small tri-band (2.4/5/6GHz) Wi-Fi® 11a/b/g/n/ac/ax 2x2 MIMO + Bluetooth® 5.3 module

Features

- 2.4 GHz, 5 GHz & 6 GHz Wi-Fi® + Bluetooth® module
- Network topology: uAP and STA dual mode
- Chipset: Infineon CYW55573
- Processor: No
- Modulation: DSSS/CCK/OFDM/OFDMA
- FCC/CE/IC/MIC 'reference' certified

Flexible Solution for IoT

- For Industrial IoT, Smart Home, Video/Audio/Voice streaming, xR (AR/VR) devices, Gateway
- 802.11 a/b/g/n/ac/ax 2x2 MIMO 1.2 Gbps
- Linux, Android

Description

Type 2EA is a small and very high-performance module based on Infineon CYW55573 combo chipset which supports Wi-Fi® 802.11a/b/g/n/ac/ax 2x2 MIMO + Bluetooth® 5.3 BR/EDR/LE up to 1201 Mbps PHY data rate on Wi-Fi and 3 Mbps PHY data rate on Bluetooth.
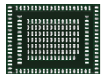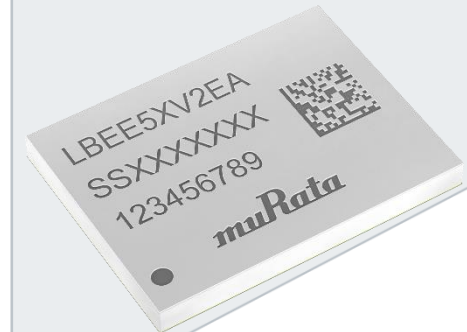
The WLAN section supports PCIe 3.0 interface, and SDIO 3.0 interfaces. The Bluetooth® section supports high-speed 4-wire UART interface, PCM and I2S for audio data.

The CYW55573 implements highly sophisticated enhanced collaborative coexistence hardware mechanisms and algorithms, which ensure that WLAN and Bluetooth collaboration is optimized for maximum performance.

In IEEE 802.11ax mode, the WLAN operation supports rates of MCS0 – MCS11 (up to 1024 QAM) in 20 MHz, 40 MHz and 80 MHz channels for data rate up to 1201 Mbps.

Type 2EA 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, wearable devices, gateway and more. It is also good for industrial applications with operating temperature up to +85C.
More details: Murata Type 2EA product page

Actual Size

Size: 12.5 x 9.4 x 1.2 mm

Type 1XX Specifications	
Murata P/N	LBEE5XV2EA-802
Embedded Artists M.2 Module P/N	EAR00413
Technology	Wi-Fi + Bluetooth
Chipset	Infineon CYW55573
Wi-Fi Specification	802.11 a/b/g/n/ac/ax Tri-band 2x2 MIMO
Bluetooth Specification	5.3
Frequency (GHz)	2.4, 5 & 6
Hosted/Hostless Architecture	Hosted
Software	Linux, Android
Wi-Fi Interface	PCIe 3.0, SDIO 3.0
Bluetooth Interface	UART
MAX data rate – Wi-Fi (Mbps)	1201
MAX data rate – Bluetooth (Mbps)	3
Interface Voltage (V)	1.8
Operating Temp. Range (°C)	-40 to +85
Antenna Configuration	U.FL connected patch antenna
Regulatory Certification	FCC/ISED, CE, MIC

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

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