

Type 1XK module

Wireless connectivity module

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

Features

- 2.4GHz & 5 GHz Wi-Fi® + Bluetooth® module
- Network topology: uAP and STA dual mode
- Chipset: NXP IW416
- 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 150Mbps
- NXP i.MX Linux, Android, MCUXpresso/FreeRTOS

Description

Type 1XK is a small and high performance module based on NXP IW416 combo chipset which supports Wi-Fi® 802.11a/b/g/n + Bluetooth® 5.2 BR/EDR/LE up to 150 Mbps PHY data rate on Wi-Fi® and 3Mbps PHY data rate on Bluetooth®.

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

The IW416 implements sophisticated enhanced collaborative coexistence hardware mechanisms and algorithms, which ensure that WLAN and Bluetooth® collaboration is optimized for maximum performance.

In IEEE 802.11n mode, the WLAN operation supports rates of MCS0 – MCS7 in 20MHz and 40MHz channels for data rate up to 150Mbps.

Type 1XK 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-1xk.html>



Size: 9.1 x 8.3 x 1.3mm

Actual size

Type 1XK Specifications

Murata part number	LBEE5CJ1XK-687
Embedded Artists M.2 module P/N	EAR00385
Technology	Wi-Fi + Bluetooth
Chipset	NXP IW416
Wi-Fi specification	802.11a/b/g/n
Bluetooth specification	5.2
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)	150
MAX data rate - Bluetooth (Mbps)	3
Interface voltage (V)	1.8 or 3.3
Operating temp. Range (°C)	-40 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