Product Brief

Type 2XK Module

Wireless Connectivity Module

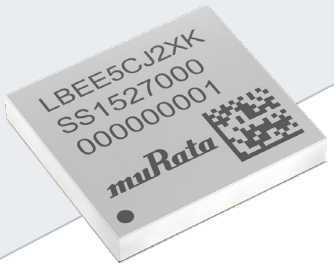
Shielded ultra-small dual band Wi-Fi® 802.11a/b/g/n + Bluetooth® 5.2 module

Features

- 2.4 GHz & 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

Flexible Solution for IoT

- For Industrial IoT, smart home, audio/video/voice, gateway
- 802.11 a/b/g/n 150 Mbps
- NXP i.MX Linux, Android, MCUXpresso/FreeRTOS



Size: 9.1 x 8.3 x 1.3 mm

Description

Type 2XK 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 3 Mbps 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 20 MHz and 40 MHz channels for data rate up to 150 Mbps.

Type 2XK 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: Murata Type 2XK product page

Type 2XK Specifications	
Murata P/N	LBEE5CJ2XK-845
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.