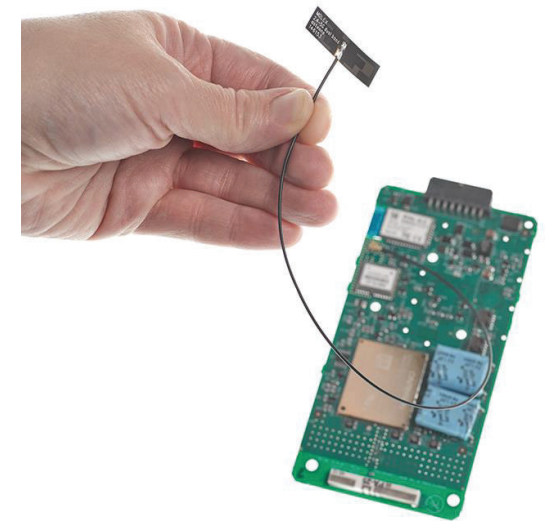# MOLEX ANTENNA COOPERATE WITH MURATA MODULE

- Molex has been in the antenna business for over 20 years, with a lot of experience on providing antenna solutions to our customers either by customization or through standard off-the-shelf products.

- Murata has been in RF module experience for over 20 years with No.1 market share and supply capability. Cooperation between Molex and Molex to have Molex antenna designed into the module reference design will reduce the lead time to develop a wireless connectivity solution and go mass production.

- Molex has developed various innovative and new-to-market flexible embedded antennas designed for seamless integration on plastics and using highly flexible micro-coaxial cable mounting while achieving high performance where space is limited.

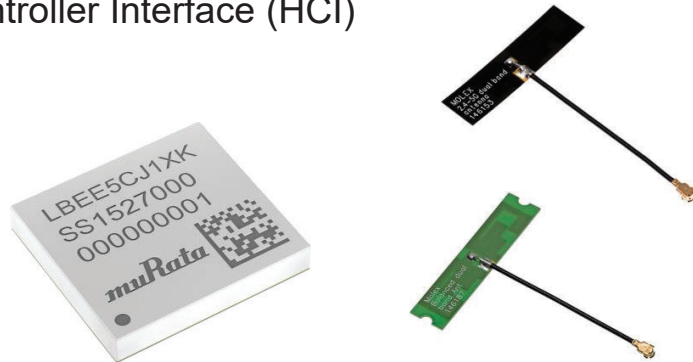*creating connections for life*

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MOLEX ANTENNA CERTIFIED FOR USE WITH MURATA TYPE 1XK

The IEEE 802.11n brings significantly higher data rates and more reliable coverage and mix 802.11n access points within an 802.11a/b/g network, 11a/b/g/n is most common use in market for dual band application.

Murata Type 1XK (Murata P/N LBEE5CJ1XK)
- Shielded Ultra Small Dual band Wi-Fi 11a/b/g/n + Bluetooth 5.2 Module
- FCC/IC/TELEC "Reference" certified; CE "Reference"
- Small size 9.1x8.3x1.3(max) mm
- Supports standard SDIO3.0 interface for WLAN
- UART interfaces support for Bluetooth is Host Controller Interface (HCI)

- SPEC : Type1XK.pdf page 55 with molex antenna
- FCC ID : **VPYLB1XK** https://fccid.io/VPYLB1XK
- molex antenna certified photo

Molex WiFi6E Flex and PCB Antenna

Series Number: 146153 and 146187

Description :
- Series 146153 and 146187 are balanced, dipole-type, high efficiency antenna support WiFi 6E, Bluetooth, Zigbee and others.
- Antenna with ground plane independent design
- Series 146153 with double-sided adhesive tape for easy "peel and stick" mounting; 146187 with robust screw hole mounting
- Offers various cable length options for ease of integration into various devices.

Key Features

Series	146153	146187
Frequency	WiFi6E Triple band	WiFi6E Triple band
Dimension	35x9x0.1mm (Height 2.0mm max with solder paste)	40.95x9x0.7mm (Height 3.1mm max with solder paste)
Connection	IPEX MHF1/MHF4(U.FL compatible)	IPEX MHF1/MHF4(U.FL compatible)
Cable	OD 1.3mm	OD 1.3mm
Cable lengths	50/100/150/200/250/300mm	50/100/150/200/250/300mm
SPEC	Product SPEC 146153	Product SPEC 146187

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MOLEX ANTENNA CERTIFIED FOR USE WITH MURATA TYPE 1SJ MODULE

LoRa is a proprietary radio modulation technology used in LPWAN networks providing low-power and long-range communication

Murata Type 1SJ (Murata P/N LBAA0QB1SJ)
- Low power consumption
- AT-Command over UART
- LoRaWAN certified, Class A, B&C support
- FCC/IC "Reference" certified; CE "Reference"
- 10x8x1.6(max)mm

- SPEC : Type 1SJ datasheet page 20 with molex antenna
- FCC ID : VPYLBAA0QB1SJ
  https://fccid.io/VPYLBAA0QB1SJ
- molex antenna certified photo

Molex 868/915MHz ISM flex antenna.

Part Number: 2111400100

Description :
- 2111400100 is a monopole flexible antenna with double-sided adhesive tape for easily installed by simply "peel and stick" on non-metal surface.

Key Features

molex P/N	2111400100
Frequency	ISM 868/915 MHz
Dimension	38x10x0.1mm (Height 2.0 max with solder paste)
Connection	IPEX MHF1(U.FL compatible)
Cable	OD 1.3mm
Cable lengths	100mm
SPEC	Product SPEC 211140

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