

LBEE5CJ2XK Radio Module - User Manual

Document Revision History

Issue	Date	Change
A	2026-04-14	First issue
B	2026-04-15	Revised ISED text on label and added radio module HVIN to label. Replaced antenna list with original list. Removed FCC residential installation notice. Replaced French versions of ISED cautions with statement that these are required in French.
C	2026-04-15	Updated antenna list.

Model Number (HVIN): LBEE5CJ2XK

FCC ID: AQO018

IC: 10176A-018

The text of this document follows the original Murata User Manual “muRata, LB1XK, LBEE5CJ1XK Module, LBEE5CJ1XK, Module, User Manual” date 31st October 2024.

Since this module is not sold to general end users directly, there is no end user manual for the module.

For details about this module, please refer to the specification sheet of module.

This module should be installed in the host device according to the integration instructions.

The integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the end user’s manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warnings as shown in this document. All ISED regulatory information/warnings shall be provided in both English and French.

ISED non-interference disclaimer

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with the Canadian ICES-003 Class B specifications. CAN ICES-003(B) / NMB-003 (B).

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with below part 15 of the FCC Rules.

Part 15 Subpart C

Part 15 Subpart E

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ISED/FCC RF Exposure statement

This equipment complies with FCC and ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC and ISED RSS-10 radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

RSS-Gen Transmit antenna statement

This radio transmitter IC: 10176A-018 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Under Innovation, Science and Economic Development regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Antenna List

Bluetooth

Vendor	Part Number	Peak Gain (dBi) 2.4GHz	Type	Connector
TE Connectivity	2108792-4	3.48	Dipole	u.FL

Wi-Fi

Vendor	Part Number	Peak Gain (dBi)		Type	Connector
		2.4GHz	5GHz		
TE Connectivity	2108792-5	3.04	5.00	Dipole	u.FL

Labelling

Since there is no space which indicates FCC ID on this module, FCC ID, ISED Certification number and HVIN are indicated in a manual.

If the FCC ID is not visible when the module is installed inside another device, then the device which the module is installed within must also display a label referring to the enclosed module:

Contains FCC ID: AQO018
Contains IC ID: 10176A-018
HVIN: LBEE5CJ2XK

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Compliance with FCC requirement 15.407(c)

Data transmission is always initiated by software, which is then passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinues transmission in case of either absence of information to transmit or operational failure.

Frequency Tolerance: ± 20 ppm