



TXB-DB2 Module Integration Instructions

List of Applicable FCC Rules

This TXB-DB2 Module ("Module") has been tested to comply with the following applicable FCC rules:

- FCC 15.231:2019, Low Power Radio
- FCC 15.247:2019, 2.4GHz DTS Radio

Specific Operational Use Conditions

The TXB-DB2 Module is a module that can be installed in applicable Remote Technologies Inc. ("RTI") products only. This module is not sold retail by RTI, nor is it provided by RTI as an OEM product to other manufacturers or companies for installation into their products. RTI and its authorized Contract Manufacturers are the only authorized installers of this module and it is not provided as a field or end-user upgrade. When properly and permanently installed in an applicable RTI product, the module will provide 2.4GHz Zigbee and 433MHz communication only with other RTI Zigbee and RTI 433MHz enabled devices.

When the module is installed in an RTI product it is permanently affixed to the host product and cannot be removed without the use of additional equipment. This module is also not visible, nor accessible by the end-user. Any attempted access or removal of the module by anyone other than RTI or its authorized Contract Manufacturers is strictly prohibited.

Limited Module Procedures

This Module is not sold retail by RTI, nor is it provided by RTI as an OEM product to other manufacturers or companies for installation into their products. RTI and its authorized Contract Manufacturers are the only authorized installers of this module and it is not provided as a field or end-user upgrade. When properly and permanently installed in an applicable RTI product, the module will provide 2.4GHz Zigbee and 433MHz communication only with other RTI Zigbee and RTI 433MHz enabled devices.

Trace Antenna Designs

This Module does not contain a Trace Antenna Design.

RF Exposure Considerations

This Module has been tested to comply with all applicable RF Exposure requirements as a Mobile device (>20cm) with respect to the head and torso and a Portable Device (<20cm) with respect to limbs and extremities. Any modification of these use requirements by the host that enables more RF Exposure will require a new FCC application and change in FCC ID. Additional radios present with the Module in the host product may subject the host product to additional RF Exposure requirements.

Antennas

The Module contains a 2.4GHz Zigbee Transceiver that utilizes an Antenova A5645 SMD PIFA Antenna. It is a 20.5mm x 3.6mm x 3.3mm surface mount antenna with a peak gain of +1.8dBi designed for 2.4GHz applications. This antenna is not externally accessible when the module is installed in an end product. There are no other 2.4GHz antenna configurations that are authorized under this Module's approval.

The Module contains a 433MHz Transmitter that utilizes a Linx ANT-433-uSP SMD Embedded 1/4 Wave Chip Antenna. It is a 12.7mm x 9.24mm x 1.57mm surface mount antenna with a peak gain of +3.8dBi designed for 433MHz applications. This antenna is not externally accessible when the module is installed in an end product. There are no other 433MHz antenna configurations that are authorized under this Module's approval.



Label and Compliance Information

Federal Communications Commission Notice

When installed in a host RTI product, the host RTI product will display verbiage in its user manual to the effect of the following in accordance with FCC 47 CFR Part 15 Section 15.212:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

Contains Transmitter Module FCC ID: MMURTI2300

Contains IC: 3166A-RTI2300

or

Contains FCC ID: MMURTI2300

Contains IC: 3166A-RTI2300



Federal Communications Commission Labeling

When installed in a host RTI product, the host RTI product will display the appropriate FCC labels and IDs in accordance with FCC 47 CFR Part 15, Section 15.19.

For example, the host may contain a permanently affixed label or silkscreen similar to:



ISED Compliance Statement

When installed in a host RTI product, the host RTI product will display verbiage in its user manual to the effect of the following in accordance with RSS-Gen, section 8.4:

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Cet appareil est conforme avec Industrie Canada exempts de licence standard

RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.

ISED Labeling

When installed in a host RTI product, the host RTI product will display the appropriate ISED labels and IDs in accordance with RSS-Gen, Section 4.2.

For example, the host may contain a permanently affixed label or silkscreen similar to:





Information on Test Modes and Additional Testing Requirements

Since the Module will solely be used by the grantee and not authorized for OEM or retail sale, no Test Mode information is provided.

Additional Testing, Part 15 Subpart B Disclaimer

This Module is only FCC authorized for the specific rules listed on the FCC Grant. The Host manufacturer is responsible for compliance to any other FCC rules that may apply to the host not covered by the Modular Transmitter Grant of Certification.