

# Radio Compliance Statements

## **Federal Communications Commission**

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.

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

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. 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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. 1. This device may not cause interference, and

To comply with FCC/ICRF exposure limits for general population / uncontrolled exposure, the antennas used for this transmitter must be installed to provide a separation distance of at least 80 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

## **Industry Canada**

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 interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter (certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

The required antenna impedance is 50 ohms.

Only an antenna with maximum gain of 8dBi can be used for the LoRa radios of this product if the cable insertion loss at 900 MHz is 0.5dB or more for 1 carrier operation at 28.5dBm or 2dB or more for 2 carrier operation at 30dBm total. Antenna(s) shall be installed to location providing a separation distance of at least 31.5 inches (80 cm) from any human body.

During product operation, always keep a separation distance of at least 31.5 inches (80 cm) from any connected antenna(s). Before servicing the product, the antenna(s) or cables, turn off the transmission function or the unit power if you have to get closer than the minimum separation distance.

The 3G/4G modem antenna maximum allowed gain including cable loss shall be in accordance with the following table:

Technology	Band	Frequency	Maximum
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		<b>(MHz)</b>	<b>Antenna Gain (dBi)</b>
LTE	2	1850–1910	3.0
	4	1710–1755	6.0
	5	824–849	3.0
	13	777–787	6.0
	17	704–716	6.0
	25	1850–1915	3.0
UMTS	2	1850–1910	3.0
	4	1710–1755	6.0
	5	824–849	3.0
GSM	850	824–849	3.0
	1900	1850–1910	3.0
CDMA	BC0	824–849	3.0
	BC1	1850–1910	3.0
	BC10	817–824	3.0

# Déclarations de conformité à la radio

## Industrie Canada

Cet appareil est conforme aux normes RSS d'Industrie Canada exemptées de licence. Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas provoquer d'interférences et
2. Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil.

Cet émetteur radio (numéro de certification) a été approuvé par Industrie Canada pour fonctionner avec les types d'antennes énumérés ci-dessous avec le gain maximal autorisé indiqué. Les types d'antennes non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits avec ce périphérique.

L'impédance d'antenne requise est de 50 ohms.

Seule une antenne avec un gain maximal de 8dBi peut être utilisée pour les radios LoRa de ce produit si la perte d'insertion de câble à 900 MHz est de 0,5dB ou plus pour une opération de porteuse à 28,5dBm ou 2dB ou plus pour un fonctionnement de 2 porteurs à 30dBm au total. Une ou plusieurs antennes doivent être installées à un emplacement situé à au moins 31,5 pouces (80 cm) de tout corps humain.

Pendant le fonctionnement du produit, conservez toujours une distance de séparation d'au moins 31,5 cm (80 cm) de toute antenne connectée. Avant de réparer le produit, la ou les antennes ou les câbles, désactivez la fonction de transmission ou la puissance de l'unité si vous devez vous rapprocher de la distance de séparation minimale.

Le gain maximal admissible de l'antenne du modem 3G / 4G, y compris la perte de câble, doit être conforme au tableau suivant:

Technology	Band	Frequency (MHz)	Gain maximum d'antenne (dBi)
LTE	2	1850-1910	3.0
	4	1710-1755	6.0
	5	824-849	3.0
	13	777-787	6.0
	17	704-716	6.0
	25	1850-1915	3.0
UMTS	2	1850-1910	3.0
	4	1710-1755	6.0
	5	824-849	3.0
GSM	850	824-849	3.0
	1900	1850-1910	3.0
CDMA	BC0	824-849	3.0
	BC1	1850-1910	3.0
	BC10	817-824	3.0