

REGULATORY INFORMATION



SAFETY INFORMATION

Read the safety information in the Quick Start Guide before you begin using this device at:

<https://support.netcommwireless.com/>

FCC (USA)



This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operations 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.

FCC ID: R68NTC551

Class B products

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 environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in 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/television technician for help.

FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF Exposure Information

This device meets the government's requirements for RF exposure to radio waves. This device is designed and manufactured not to exceed the emissions limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for uncontrolled environments. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 45cm (17.72 inches) during normal use.

Any optional external antenna used for this transmitter must be installed to provide a separation distance of at least the minimum separation distance listed above from all persons and must not be co-located or operated in conjunction with any other antenna or transmitter. Please consult the health and safety guide of the chosen antenna for specific body separation guidelines as a greater distance of separation may be required for high-gain antennas. Any external antenna gain must meet RF exposure and maximum radiated output power limits of the applicable rule section.

A note about antennas: When using a high-gain antenna, the manufacturer should reduce the Conducted Power to meet the FCC EIRP rule.

The maximum antenna gain for this device as reported to the FCC is:

Test Mode (NR Band)	Antenna Gain (dBi)
n2, n25, n66, n70, n71	-0.5
n5, n26	0.9
n7, n38, n41	-1.1
n12, n13, n14	-5
n30	0.1
n77, n78	-2.4

Test Mode (LTE Band)	Antenna Gain (dBi)
B2, B4, B25, B66, B71	-0.5
B30	0.1
B5, B26	0.9
B7, B38, B41	-1.1
B42, B43	-2.4
B12, B13, B14, B17	-5

Test Mode (Wi-Fi)	Antenna Gain (dBi)
802.11b/g/n/ax	9
802.11a/n/ac/ax	9

COMPANY CONTACT DETAILS

Name: DZS, Inc.

Address: 5700 Tennyson Parkway, Suite 400, Plano, TX 75024 USA

Website: www.dzsi.com/contact-us/

Product: 5G Industrial IoT Router with Wi-Fi

Model: NTC-551, NTC-552

NetComm Wireless Pty Ltd is a part of **DZS, Inc.**

ISED - (CANADA)

ISED Notice

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

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

Cet appareil est conforme à la norme RSS d'Industrie Canada. Son fonctionnement est sujet aux deux conditions suivantes:

- le dispositif ne doit pas produire de brouillage préjudiciable, et
- ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

ISED RF Exposure Statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 45cm (17.72 inches) during normal operation.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la CNR-102 définies pour un environnement non contrôlé. Afin d'éviter la possibilité de dépasser les limites d'exposition aux fréquences radio de la CNR-102, la proximité humaine à l'antenne ne doit pas être inférieure à 45cm (17.72 pouces) pendant le fonctionnement normal.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

ISED Canada Emissions compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de Conformité à la Réglementation d'Industrie Canada.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cellular External Antenna Considerations

This radio transmitter, with certification number IC: 8847A-NTC551, 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.

Cet émetteur radio, portant le numéro de certification IC: 8847A-NTC551, a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antennes répertoriés ci-dessous, avec le gain maximum autorisé indiqué. Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour une utilisation avec cet appareil.

External Antenna(s): Not Included

RCM (AUSTRALIA AND NEW ZEALAND)

The information in this section applies to products bearing the Australia and New Zealand Regulatory Compliance Mark (RCM):

This device equipment complies with the Australian and New Zealand regulatory approvals requirements.



RF Exposure

The device contains a transmitter and a receiver. When it is on, it received and transmits RF energy. The device confirms with the radio frequency (RF) exposure limits adopted by the Australian Communications and Media Authority, when used at a distance of not less than 25cm from the body.

CE / UKCA (EUROPE AND UK)

This section applies to products bearing the CE mark and/or UKCA mark:

Simplified EU DoC

Hereby, NetComm Wireless Pty Ltd declares that the radio equipment type NTC-552 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet



address: <https://support.netcommwireless.com/doc>

EU/UK RF Radiation Exposure Guidance Statement

This device meets the EU requirements and the International Commission on Non Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. To comply with the RF exposure requirements, this equipment must be operated in a minimum of 25cm separation distance to the user.

To comply with RF Exposure Requirements, the Maximum Cellular Antenna Gain Must Not Exceed:

Model	Country	Bands	Antenna Gain
NTC-552	EU/UK/AU	LTE Bands B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41, B42, B43 FR1 Bands n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n75, n76, n77, n78 2.4GHz Wi-Fi 5GHz Wi-Fi	4dBi (617-960MHz) 8dBi (1710-3800MHz)
			9dBi (2412-2472MHz) 9dBi (5150-5850MHz)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power –

Bands used	Max. Transmit Power (dBm)
LTE Bands B1, B3, B7, B8, B20, B28, B40 NR Bands n1, n3, n7, n8, n20, n28	25
LTE Bands B38, B42, B43 NR Bands n38, n40, n41, n77, n78	28
2.4G Wi-Fi	11
5G Wi-Fi	21
Bluetooth	1.91

Restrictions of Use

Installation of this device outdoors or in a vehicle must comply with EU regulation (EU) 2022/179.



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities.