REGULATORY INFORMATION

SAFETY INFORMATION

Read the safety information in the Quick Start Guide before you begin using this device at:
https://www.lantronix.com/ntc-500

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: XMR2023RG520NNA

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 20 cm (8 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.

COMPANY CONTACT DETAILS

Name: Lantronix, Inc.

Address: 48 Discovery, Suite 250, Irvine, CA, 92618, USA

Website: https://www.lantronix.com

Product: 5G Industrial IoT Router

Model: NTC-501, NTC-502

ISED - (CANADA)

Contains IC ID : 10224A-2022RG520NA
CAN ICES-3 (B)/NMB-3(B)

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:

a. This device may not cause interference.

b. 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:

a. le dispositif ne doit pas produire de brouillage préjudiciable, et

b. 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 20cm (8 inches) during normal operation.

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 20 cm (8 pouces) pendant le fonctionnement normal.

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 conform à la norme NMB-003 du Canada.

Cellular External Antenna Considerations

This radio transmitter [Contains 10224A-2022RG520NA] 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 Èmetteur radio [contient 10224A-2022RG520NA] a ÈtÈ approuvÈ par Innovation, Sciences et DÈveloppement Èconomique Canada pour fonctionner avec les types díantennes rÈpertoriÈs ci-dessous, avec le gain maximum autorisÈ indiquÈ. Les types díantennes non inclus dans cette liste qui ont un gain supÈrieur au gain maximum indiquÈ pour tout type rÈpertoriÈ sont strictement interdits pour une utilisation avec cet appareil.

External Antenna(s): Not Included

MPRT-00116-00_NTC-500_Compliance_Leaflet_Rev3

RF MAXIMUM EXPOSURE

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

Model	Country	Cellular Band	Antenna Gain (dBi) Including Cable Loss
NTC-501	US / FCC Canada / ISED	**LTE Bands** B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B38, B41, B42, B43, B46, B48, B66, B71	1.8 (617-960MHz)
		LTE Band B48	2.13
		FR1 Bands n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78	3 (1710-3800MHz)
NTC-502	EU/UK	**LTE Bands** B1, B3, B5, B7, B8, B20, B28, B32, B38, B40, B41, B42, B43	4 (617-960MHZ)
		FR1 Bands n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n75, n76, n77, n78	8 (1710-3800MHz)

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.

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 20cm 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, Lantronix, Inc. declares that the radio equipment type NTC-502 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://www.lantronix.com/ntc-500

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 20cm separation distance to the user.

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 –

Frequency (MHz)	Bands used	Max. Transmit Power (dBm)
1920 - 1980	LTE Band 1	25
1710 - 1785	LTE Band 3	25
2500 - 2570	LTE Band 7	25
880 - 915	LTE Band 8	25
832 - 862	LTE Band 20	25
703 - 736	LTE Band 28	25
2570 - 2620	LTE Band 38	31
2300 - 2400	LTE Band 40	25
3400 - 3600	LTE Band 42	28
1920 - 1980	NR n1	25
1710 - 1785	NR n3	25
2500 - 2570	NR n7	25
880 - 915	NR n8	25
703 - 736	NR n28	25
2300 - 2400	NR n38	28
2300 - 2400	NR n40	28
2500 - 2690	NR n41	28
3400 - 4200	NR n77	28
3400 - 3800	NR n78	28

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