

User Information and Installation Instructions

Product: NL68 Radio Module

FCC ID: 2BR8WNL68

Rule Part: 15C (DTS)

1. 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.

2. Interference Statement

NOTE: 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 or more 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.

3. RF Exposure Statement

To satisfy FCC RF exposure requirements, a separation distance of at least 20 cm should be maintained between the antenna of this device and persons during device operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter without additional evaluation or certification.

4. Approved Antenna Types and Maximum Gain

The following antenna types are approved for use with the NL68 module under FCC certification:

- PCB trace antenna (50 Ω)
- Chip antenna (Johanson / Taoglas / Linx equivalent)

Maximum permitted antenna gain:

- Peak Gain: 5.0 dBi with unique connector

Use of any antenna with higher gain or different type requires a new FCC certification or a permissive change filing.

Type of antenna used 915 MHz ISM Connector Mount.

Additional tests are recommended when installing the device in a host.

5. Labeling Requirements for Host Devices

The NL68 module is approved as a modular transmitter. Integrators must ensure the host device is labeled with the following statement:

“Contains FCC ID: 2BR8WNL68”

The label must be affixed in a visible location on the host device.

6. Installation Instructions for Integrators

- The NL68 module must be installed in the host device in accordance with the instructions provided.
- The antenna used must be of a type approved with this module. Use of alternative antennas is not permitted without additional FCC certification.

The typical antenna gain (ie 2.15dBi) also state that once installed it must have a non specific antenna connector

additional tests required when the device is installed in a host

- Ensure proper grounding and shielding of the host device to minimize interference.
- The module may not be modified by the integrator. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- The module must not be co-located with other transmitters without further testing and approval.

7. End-User Information

This module is intended for OEM integrators only. End users do not have the ability to install or remove the module. Any end-user instructions should be provided by the OEM manufacturer of the host device incorporating this module.