



10200 55th Street, Kenosha, WI 53144
Tel: (262) 891-9700 Fax: (262) 891-9701
Website: www.kenall.com

Date: 28 November 2016

REF: Kenall Radio Module L-3805

FCC ID: 2AKC7-LINK900G1

Subject: Modular Transmitter Approval

Gentlemen:

The following information is being provided per the requirements of 15.212 regarding modular approval of Part 15 devices.

This transceiver is a complete RF module with an integral reference oscillator. External connections are provided for power and data communication.

The following numbered items correspond to similarly numbered paragraphs in 15.212. Each item is a response to the requirements of that document.

- 1) The module has integral RF shielding to isolate it from surrounding equipment and the larger environment in general.
- 2) All inputs are processed as data by the on-board microcontroller. The outside user has no direct control of transmit modulation. The transmitter is controlled by the on-board microcontroller via data message commands from the serial port input.
- 3) The on board microprocessor monitors the 3.3 VDC input supply and prevents the transmitter from operating if the input voltage is detected to be below 3.0 VDC.
- 4) There are 2 antenna options with this module, (1) PCB quarter-wave antenna internal to the host, (2) Linx ANT-916-CW-CW quarter-wave external antenna. The radio module contains a u.FL connector. The external Linx antenna uses a reverse polarity SMA RF connector. A u.FL to RP-SMA cable is used to connect the Linx antenna to the module. The internal PCB antenna is connected with a u.FL – u.FL cable.
- 5) The module was tested in a stand-alone configuration and found to be compliant with Part 15 regulations.
- 6) An FCC ID label is affixed to each unit at the time of manufacture. Information is also clearly presented in the user guide about labeling requirements for the final assembly. Documentation is provided showing our labelling methods.
- 7) This unit is compliant with Part 15.247. Installation and other requirements are presented in the user guide to allow the unit to be correctly installed in a host.
- 8) The unit is compliant with the RF exposure requirements of Parts 15.247, 2.1091.

Further information may be obtained from Kenall Manufacturing.

Sincerely,

Mr. Michael Kirk
Senior Electrical Engineer
Kenall Manufacturing, Inc.
P: 262.891.9243 E: mkirk@kenall.com

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