



GE MDS

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March 31, 2017

To Whom It May Concern:

Subject: Manufacturer's Declaration for Limited Modular approval for FCC part 90 licensed spectrum and IC RSS-119.

FCC ID: E5MDS-LN100, IC: 101D-LN100

FCC KDB 996369

Modular Approval Checklist:

Table with 3 columns: Modular approval requirement, Yes, No (*). It contains 6 rows of requirements for modular transmitter approval, such as RF shielding, buffered modulation, power supply regulation, stand-alone testing, labeling, and specific operating requirements.

Modular approval requirement	Yes	No (*)
7. The modular transmitter must comply with any applicable RF exposure requirements. For example, RSS-102 and FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.	The module meets this requirement for a Fixed device that shall be used at separation distance of more than 20cm from the human body. The module complies with applicable RSS-102 exposure requirements, in its intended configuration/integration in a host. Refer to the MPE calculation and Integrator's Guide.	

IC RSP-100, 7.3

Modular Approval Checklist:

Modular approval requirement	Yes	No *
a) The radio elements shall have the radio frequency circuitry shielded. Physical / discrete and tuning capacitors may be located external to the shield, but must be on the module assembly.	YES, the RF circuitry is shielded on the PCB	
b) The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable RSS standard under conditions of excessive data rates or over-modulation.	YES, the Data is buffered through communication drivers to the processors	
c) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.		No, we will control the host integration and DC regulation as described in Integrator's Guide.
d) The module shall comply with the provisions for external power amplifiers and antennas detailed in the applicable RSS standard. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.		No, we use standard TNC antenna connector; As per all licensed devices, antenna and transmission system requirements must conform to the conditions of end-user's site license.
e) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing.	Yes, the module was tested on the bench outside of the enclosure as a stand-alone device and complies with RSS-119 emission requirements.	
f) The module shall comply with the Category I equipment labelling requirements.	Yes, there will be an IC label on the module. The host device will be labeled with “Contains IC: 101D-LN100”	


Modular approval requirement	Yes	No *
g) The module shall comply with applicable RSS-102 exposure requirements, which are based on the intended use/configurations.	Yes, The module complies with RSS-102 requirements. Instructions to the OEM installer regarding such requirements for use in host device(s) are included in this application.	
h) Is the modular device for an Industry Canada licence-exempt service?		No. LN100 is a licensed device as indicated below.

* This **Limited Modular Approval (LMA)** is applied with the understanding that we, the applicant will demonstrate and will retain control over the final installation of the device, such that compliance of the end product is always assured. The operating condition(s) for the LMA; the module is only approved for use when installed in devices produced by GE MDS, or when proper installation / integration is used as per the user manual instructions.

The LN100 is a wireless 100MHz module, compliant with FCC Part 90. The module is designed to be integrated into various enclosures designed by GE MDS. Alternatively the module can also be integrated by OEM as per the integration instructions provided in the user manual. All our products are Professional Installation only. These modules are not for sale to the general public. GE MDS has fully trained and qualified personnel.

Dated: 3/31/2017

By:

Signed:  Name: Dennis McCarthy

(Signature)

(Print Name)

Title: Agency Compliance Engineer
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