

Federal Communications Commission
 Authorization and Evaluation Division

REFERENCE
FCC ID: LLB2017025
RE: Request for Limited Modular Approval
APPLICANT: Aclara Technologies, LLC.
August 19, 2019
Modular approval Requirements

Item	Requirement	Meets	Justification
(a)	The radio elements must have the radio frequency circuitry and must be shielded. Physical/discrete and tuning capacitors may be located external to the shield but must be on the module assembly.	Yes	<i>The RF portions of the module are completely contained within a metal shielding can. The module does not depend on any other shielding.</i>
(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	<i>The SPI interface uses buffered CMOS inputs and outputs. There is a 64-byte TX/RX FIFO buffer internal to the Si4467. The SPI Interface only allows data transfer to the transceiver and has no effect on the modulation or data rate of the RF transmitted signal.</i>
(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	<i>The Host Board power supply shall provide a regulated 3.6 VDC output voltage with less than 20mVAC of ripple. The power supply shall be capable of supplying up to 1.0 Amp of current and regulate the 3.6V output voltage to +/- 5% tolerance The host controls power supply Regulation.</i>
(d)	The module shall comply with the provisions for external power amplifiers and antennas detailed in this standard. The equipment certification submission shall contain a detailed description of the configuration of all antennas that will be used with the module.	Yes	<i>The product is professionally installed only. The installations are controlled by Aclara. Only approved antennas will be used. No External amplifiers will be used. The product will not be sold to the general public.</i>
(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	<i>The product was tested with an external power supply with no additional filtering. The product was tested on a representative PCB that had no additional shielding.</i>
(f)	The module shall comply with the Category I equipment labeling requirements.	Yes	<i>The FCC ID label format is included in the filing. The product will always be inside another enclosure during actual use.</i>
(g)	The module shall comply with applicable RSS-102 exposure requirements, which are based on the intended use/configurations.	Yes	<i>Refer to RF exposure Exhibit. The transmitter meets exemptions per RSS-102.</i>
(h)	Is the modular device for an Industry Canada licensed exempt service?	Yes	<i>It is only professionally installed by utility companies. It will not be sold to the general public</i>

Aclara will only sell the RF module while connected to Aclara products. Aclara will control the end product into which the module will be installed and will be maintained, such that full compliance of the end product is always ensured.

Radiometrics has been authorized by Aclara Technologies, LLC to act as an agent in the preparation of their submittal request for Modular Approval.

Sincerely,



Joseph Strzelecki
Senior EMC Engineer
Radiometrics Midwest Corporation
Authorized Agent for Aclara Technologies, LLC.
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