



DIGI INTERNATIONAL
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Subject: Request for Modular Approval

SmartSense by Digi

Date: 9/11/2019

FCC-ID: 2ATZ3-SCMB100

IC Number: 25306-SCMB100

Dear Application Examiner:

SmartSense by Digi would like to apply for full Modular Approval for its ngMod40 product under the above FCC-ID. The device meets the criteria laid out in FCC 15.212 as described below:

15.212

i) The radio elements of the modular transmitter must have their own shielding.

The device has its own shielding as evidenced by external device photos.

ii) The modular transmitter must have buffered modulation/data inputs.

The device is based around Nordic's NRF52840, an IC that provides the required buffering. Please see schematic for more detail.

iii) The modular transmitter must have its own power supply regulation.

The module uses the NRF52840 for power supply regulation. Please see schematic for more detail.

iv) The modular transmitter must comply with the antenna and transmission system requirements of §§15.203, 15.204(b) and 15.204(c).

The device has an onboard antenna and is marketed with the following external antennas:

- **Ethertronics 1001932**

Please see user manual, schematic and external photos for more details on antennas.

v) The modular transmitter must be tested in a stand-alone configuration.

The device was tested in a stand-alone configuration. Please see the test report for details.

vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

The device is equipped with a permanently affixed label. Please see external photos.

vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.



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The device complies with the applicable FCC requirements. Please see the user manual for details on operation.

viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

The device complies with all applicable RF exposure requirements. Please see test report for more details.

Sincerely, 
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