



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,   
Travis Sjostrom  
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