

June 14, 2016

Dear Application Examiner,

**Brady Worldwide Inc.,** would like to have your authorization for Module Approval specific to the **BDC2000** device as described herein. **The BDC2000 13.56MHz RFID application will read/write RFID data (ISO15693 compliant) from RFID tags that provide brand security for media used. The FCC # will be NUC-BDC2000.** The requirements of FCC Code of Federal Regulations Title 47 Part 15.212 have been met as shown below:

### FCC Modular Approval Checklist:

| Modular approval requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes      | No |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| 15.212 (1)(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.                                                                                                                                                                                                                                                                                       | <b>X</b> |    |
| Explanation: <b>All radio elements are shielded, see pictures provided.</b>                                                                                                                                                                                                                                                                                                                                                                                                         |          |    |
| 15.212 (1)(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15 requirements under conditions of excessive data rates or over-modulation.                                                                                                                                                                                                                                         | <b>X</b> |    |
| Explanation: <b>The data inputs are buffered on the 13.56MHz radio module by Texan Instruments model RI-R6C-001A-03</b>                                                                                                                                                                                                                                                                                                                                                             |          |    |
| 15.212 (1)(iii) The modular transmitter must have its own power supply regulation.                                                                                                                                                                                                                                                                                                                                                                                                  | <b>X</b> |    |
| <b>The module has filtered 5V power input and a 3.3 V power supply regulator.</b>                                                                                                                                                                                                                                                                                                                                                                                                   |          |    |
| 15.212 (1)(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). The “professional installation” provision of §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section. | <b>X</b> |    |



|                                                                                                                                                                                                                                                                                                                                                                     |            |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| Explanation: <b>The radio module meets the requirement and description is in the operational description exhibit provided.</b>                                                                                                                                                                                                                                      |            |           |
| <b>Modular approval requirement</b>                                                                                                                                                                                                                                                                                                                                 | <b>Yes</b> | <b>No</b> |
| 15.212 (1)(v) The modular transmitter must be tested in a stand-alone configuration.                                                                                                                                                                                                                                                                                | <b>X</b>   |           |
| Explanation: <b>The device was tested in a stand-alone, board level configuration</b>                                                                                                                                                                                                                                                                               |            |           |
| 15.212 (1)(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.                                                                                                                                                                                      | <b>X</b>   |           |
| Explanation: The radio module is labeled with FCC ID #. See label drawing exhibit. <b>FCC ID: NUC-BDC2000</b>                                                                                                                                                                                                                                                       |            |           |
| 15.212 (1)(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. | <b>X</b>   |           |
| Explanation: <b>Instructions for use is provided in the User's Manual exhibit.</b>                                                                                                                                                                                                                                                                                  |            |           |
| 15.212 (1)(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.                                                                                                                                                                                                                                       | <b>X</b>   |           |
| Explanation: <b>The device is compliant with all RF Exposure requirements.</b>                                                                                                                                                                                                                                                                                      |            |           |

Please contact me if you have any further questions. Thank you for your attention to this matter.

Regards,

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