

MODULAR APPROVAL LETTER

ELATEC

RFID Systems

2025-05-14

Dear Application Examiner:

Elatec GmbH, TWN4 MultiTech Nano Plus M, WP5TWN4F23 is seeking limited modular approval. The radio does not meet all of the requirements for modular approval as detailed in FCC 15.212. Compliance to each of the requirements is described below:

1. **"The modular transmitter must have its own RF shielding."** The module does not have a shielding over its RF circuitry. For this reason, Elatec wants to apply for limited modular approval.
2. **"The modular transmitter must have buffered modulation/data inputs."** The EUT has buffered data inputs to insure compliance with Part 15 requirements under conditions of excessive data rates or over-modulation. Please see the Schematics exhibit.
Elatec: Herby confirmed. The RF Frontend is from LEGIC, type SM-6300 or equivalent.
3. **"The modular transmitter must have its own power supply regulation."** The EUT has its own power supply regulation to insure compliance with Part 15 requirements regardless of the quality or level of external DC supplying the module from the host unit. Please see Schematics exhibit. Also, the technical report exhibit contains AC power line conducted emissions data taken with the EUT powered from a linear power supply that contains no EMC suppression components.
Elatec: Hereby confirmed. The voltage regulator is from TI, type TPS73533 or equivalent.
4. **"The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)."** The EUT meets the FCC antenna requirements.
Elatec: The antenna is not mounted on the module. There are 2 antennas used with the module, both are of the magnetic loop type, one of which is a reference design to be etched on the host board and the other is a wire coil antenna to be mounted on the board, these antennas will be permanently attached by the host integrator, full specifications for these antennas can be found in the antenna exhibit and the modular integration instructions
5. **"The modular transmitter must be tested in a stand-alone configuration."** The EUT was tested in a stand-alone configuration. The module was greater than 10 cm from the host device. Please see test setup photos exhibit and technical report exhibit.
Elatec: For compliance and testing purposes, the module was fitted on a reference board, providing power programming and antenna connection.
6. **"The modular transmitter must be labeled with its own FCC ID number."** The EUT is labeled with its own FCC ID number. Please see FCC ID label & location exhibit. If the FCC ID number will not be visible when the module is installed inside a host device, another label with the FCC ID will be applied to the exterior of the host device.
Elatec: The module is labelled with a permanently affixed FCC ID label.
7. **"The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements."** The EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are given in the User Manual.
8. **"The modular transmitter must comply with any applicable RF exposure requirements."** The EUT is compliant with all applicable RF exposure requirements. Please see RF Exposure Exhibit.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,



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