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Gentlemen:

This letter addresses the modular approval requirements of DA 00-1407 for this submission for

Transceiver Module TM2.4-1 Model-No. 1350.9905162

and

Transceiver Module TM2.4-2 Model-No. 1350.9905161

FCC ID: UXA-990516X

1. The modules have no shielding. The modules were tested without any housing. We apply for a Limited Modular Approval (LMA), constrained to be sold to OEM manufacturers only. This product is designed for being built into user interfaces of industrial or medical equipment. There is a user manual available, which instructs the professional OEM, how to implement and use the modules in a way, that compliance of the product is always ensured.
2. Both modules have buffered data input via SPI-bus to the onboard μ -controller (see schematic diagrams). The user has no direct access to the registers of the integrated RF module and can set only few parameters to control frequency channel, output RF power and bit rate of the device.
3. Both modules have it's own voltage regulator integrated (see schematic diagrams).

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4. a.) transceiver module TM2.4-1 (Model No. 1350.9905162)
has an integrated SMD-antenna
- b.) transceiver module TM2.4-2 (Model No. 1350.9905161)
may be used with one of the following antennas:
 - Laird Technologies WCR2400-SMRP
 - EAD BT-Blade™ FBT35009-RS-1K5 with 1,5m-RG174-Cable(see test report)

The antenna coupler is a nonstandard inverse SMA-socket. The user manual gives instruction to the antenna issue.

5. The modules (EUT) were tested in a stand-alone configuration without housing or shielding. The modules were directly connected to the serial port of a standard PC. The unshielded modules were found to be conform to FCC Part 15 requirements (see test report).
6. The user manual addresses the label issue and gives instructions to the OEM how to label devices in which the modular transceivers will be built in. The user manual shows a sample label.
7. The modular transmitter complies with all FCC rules and operating requirements. Instructions to maintain compliance are given in the users manual. The user has no direct access to internal registers of the build-in RF-transmitter. The firmware limits all user inputs to a range, where compliant operation with the provisions of section 15.247 is achieved. The firmware is not accessible by users.
8. The Transceiver Modules TM2.4-1 and TM2.4-2 are compliant with all applicable RF exposure requirements for modular transmitter devices. The maximum output power is 0dBm. OEM manufacturers are given instructions in the user manual for maintaining compliance to RF exposure requirements.

Sincerely,



Dr. Friedhelm Becker
(Managing Director)