



Attn: Reviewing Engineer

Crailsheim, 2016-12-21

RE: PART 90 LICENSED MODULAR TRANSMITTER APPROVAL

To Whom It May Concern:

We, (*HBC-radiomatic GmbH*), hereby request for part 90 licensed modular transmitter approval of our device, described as follows:

Brand name: HBC-radiomatic GmbH  
Model name: TC64327  
FCC ID: NO9TC64327

Requirements for single modular transmitters:

1. 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.

Answer: Yes, the radio elements have their own shielding.

2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided).

Answer: The modulation and the RF signal processing is entirely done in the transceiver module. The data transfer between the transceiver module and the rest of the system is done by an I2C bus.

3. The modular transmitter must have its own power supply regulation.

Answer: The required supply voltage of +3 V DC is generated by the on-board voltage regulator IC17 (LP3985IM5-3.0), please see in the schematic.

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



Answer: A test fixture for stand-alone testing was provided together with the transceiver module.

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

Answer: The FCC ID is printed on a label on the shielding, as it is shown in the user manual.

6. 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.

Answer: The RF module complies with these requirements and any restrictions are clearly addressed in the integration manual.

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

Answer: The RF module complies with the applicable RF exposure requirements. Any restrictions are clearly addressed in the integration manual.

Signature:

Mrs. Dr. Friederike Brendel, Head of R&D / Product Management  
(Name, job title and/or department)