

Attn: Reviewing Engineer

Place, 2017-02-17

RE: PART 15 UNLICENSED MODULAR TRANSMITTER APPROVAL

To Whom It May Concern:

We, ACD Elektronik GmbH, hereby request for part 15 unlicensed modular transmitter approval of our device, described as follows:

Brand name: X1310-ISM-Transceiver-915MHz

Model name: 1830 xxxxxxxx R-00

FCC ID: O2F-X1310TC915

In section §15.212 "Modular transmitters" of 47 CFR Part 15 there are eight numbered requirements for single modular transmitters that our device complies with:

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: The radio elements of the modular transmitter have their own shielding. The soldering contacts have a distance of less than 7mm. Below the RF part is a closed ground plane

2. 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.

Answer: integrated in the part D1, page 1, CC1310F64RHB

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

Answer: N50, Page 1, LP2985AIM5-3.3

4. 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).

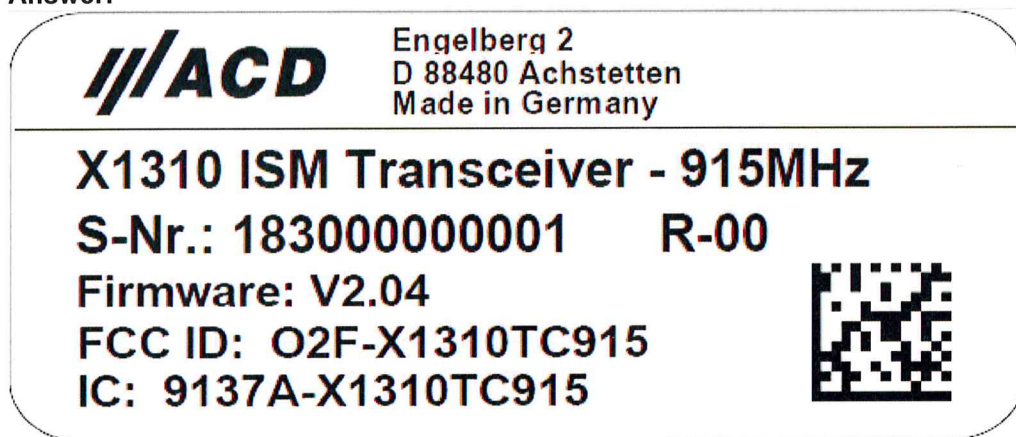
Answer: The RF Module itself is equipped either with an UFL or Molex antenna connector that complies with §15.203. Due to the fact that the two certified external antennas will be connected using an UFL/MCX-to-SMA adaptor cable, the integration is limited to professional installation, here by ourself into our own host devices (no-consumer devices). PCB antenna of the module will not be used.

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

Answer: Tested in a stand-alone configuration!

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

Answer:



7. 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: Any restrictions will be addressed in the Integration Manual.

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

Answer: Devices subject to §15.249 are categorically exempted from the FCC RF Exposure requirements.

Signature:



Mr. Bruno Staudenrausch, Hardware Developer

(Name, job title and/or department)