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Product Certification
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REQUEST FOR FCC Part 15 MODULAR TRANSMITTER APPROVAL
FCC ID: WP5TWN4F10

To Whom It May Concern:

We, *Elatec GmbH*, hereby request ☒ a modular / ☐ limited modular approval.

In CFR47 §15.212 “Modular Transmitters” and KDB 996369 D01 “Module Equip Auth Guide” there are following eight numbered requirements defined:

1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly.

125 kHz(LF):	The transmitter is shielded under a common shield for LF and HF.
13.56 MHz (HF):	The transmitter is shielded under a common shield for LF and HF.

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.

125 kHz (LF):	The digital transmission signal is decoupled by a buffer from the antenna output signal.
13.56 MHz (HF):	The RF signal is generated in a integrated circuit (RF frontend), which is controlled digitally and contains buffers to decouple antenna signal from digitally control signals.

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

All transmitter circuitry is supplied by a linear voltage regulator (3.3V), which is located on the module.

4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per §§ 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b).

The module consists off two PCBs. PCB #1 contains transmitters for LF, HF plus system on chip. PCB #2 contains LF and HF antenna. The two PCBs are connected via specific antenna connector, which ensures connecting only the intended PCB #1 and PCB #2.

5. The module must demonstrate compliance in a stand-alone configuration.

The module can be operated in a stand-alone configuration via USB.

6. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number (KDB 784748).

The module is equipped with a permanently affixed label, which displays the FCC identifaction number.

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 operating requirements are specified as part of a datasheet plus a technical handbook, which are available to the customer.

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

Transmitters according to 15.209 and 15.225 are categorical exempted

Yours sincerely,

Signatory

Agent
Christian Kiermeier