

To

SIGMATEK GmbH & Co KG  
Headquarters Lamprechtshausen

Attn: Reviewing Engineer

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**Subject:** PART 15 UNLICENSED MODULAR TRANSMITTER APPROVAL

12.08.2014

To Whom It May Concern:

We, SIGMATEK GMBH & CO KG, hereby requests part 15 unlicensed modular transmitter approval of our device, described below:

Brand name: SIGMATEK GMBH & CO KG

Model name: HF-RFID001

Type number: RFID Reader

FCC ID: 2ACQNPHER001

In FCC Public Notice DA 00-1407 released June 26, 2000 there are eight numbered requirements with which our device complies:

**1. The modular transmitter must have its own shielding.**

YES, this RF module complies with this requirement, please refer to external photo exhibit.

**2. The modular transmitter must have buffered modulation/data inputs**

The transmitter has buffered data and modulation inputs and is managed by the Microcontroller IC3.

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

Yes, the transmitter has its own power supply and is controlled by the chip with designator IC1. One internal IC1 regulator is for the analog blocks and one regulator is for the digital blocks. The regulated voltage of the pins is 250mV lower than the VCC voltage of the chip.

Please refer to the attached datasheet for the chip.

**4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204c**

YES, this RF module complies with this requirement, the module has a unique antenna connector specific to Sigmatek and the applicable antennas are delivered by Sigmatek with the module. Please refer to external photo exhibit.

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

The module is measured by the Test lab in a stand-alone configuration. The stand-alone configurations comply with the regulation.

**6. The modular transmitter must be labelled with its own FCC ID number**

YES, this RF module complies with this requirement, please refer to external photo exhibit.

**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.**

Please refer to the delivered User Manual.

**8. The modular transmitter must comply with any applicable RF exposure requirements.**

The modular transmitter complies with the RF exposure requirements please refer to the attached document 140202-AU01+W01\_HF-RFID Reader\_ANSI-RF-Report.pdf

With best regards



Christian Kiermeier