

CeoTronics AG · Adam-Opel-Str. 6 · 63322 Rödermark (Germany)

Federal Communications  
Commission  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

**CeoTronics AG**  
**FCC ID: L52CT-M5CEO1**  
**FCC Part 15 Certification**

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WEEE-Reg. Nr. DE 15466059

05.09.2007

## Request for modular approval

Gentlemen,

Dear Application Examiner,

The **CeoTronics AG** DECT Module with the FCC ID: L52CT-M5CEO1 is seeking FCC authorization as a modular transmitter. The requirements of the FCC Part 15.212 are met.

The following requirements are fulfilled:

### 1. The modular transmitter must have its own RF shielding

The radio portion of the module is contained in its own RF shielding. The Power Amplifier stage is contained in a separate chamber. The VCO circuitry is also contained in a separate shielding chamber. See the internal photos. The shielding lid is covering all components except the module connector and the antennas.

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

The module has a complete digital baseband processing unit inside. It buffers the audio signals and data inputs from the module connector.

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

The module contains own voltage regulation circuits. All circuitry is fed with internally stabilized voltages, except the Power Amplifier which is supplied directly from the external source.

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

The transmitter shall only be used with the tested integral antennas. The EUT was tested in a stand-alone configuration. The module was fixed on the M5\_EVAL\_2 Evaluation Board during the test. See also test setup photos in test report. In this configuration the length of AC or DC power lines and data input/output lines is the typical length of actual use.

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

The Module will be equipped with a permanently affixed label:

**FCC ID L52CT-M5CEO1**

If the module is installed inside another device, then the outside of the device into which the module is installed will display a label referring to the enclosed module. This exterior label will use wording such as the following:  
"Contains FCC ID L52CT-M5CEO1"

**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 EUT is compliant with all applicable FCC rules. Detail instructions are given in the product Users Guide.

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

The maximum measured power output is 119,67mW (20,78 dBm), the maximum antenna gain is 0 dBi = numeric gain 1.0 (see also MPE calculation – Exhibit RFExposure) The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm<sup>2</sup>. The distance from the EUT's transmitting antenna where the exposure level reaches the maximum permitted level is calculated using the general equation:

$$S = P \cdot G / 4R^2$$

$$S_{\max} = 0.024 \text{ mW/cm}^2$$

The internal antennas used for this mobile transmitter must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

End users may not be provided with the module installation instructions. OEM integrators and end users must be provided with transmitter operating conditions for satisfying RF exposure compliance.. For portable applications OEM integrators need SAR evaluation and an own FCC ID

Sincerely,



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Günther Thoma  
COO  
Ceotronics AG