

27.03.2007

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

Request for modular approval

**LuxLabs Ltd. dba MeshNetics**  
**FCC ID: U6TZIGBIT-A2**  
**FCC Part 15 Certification**

Gentlemen,

Dear Application Examiner,  
the **LuxLabs Ltd. dba MeshNetics**, module FCC ID: U6TZIGBIT-A2 is seeking FCC authorization as a modular transmitter. The requirement of the FCC Public notice DA00-1407 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. See enclosed product photos in exhibit "external Photos".

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

The module has a memory management unit inside of the IC and external. It buffers the data inputs from UART and USB terminal.

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

The IC contains an own voltage regulation. In case of changes in the supply voltage VCC (for example caused by temperature changes or other effects), the internal voltage will be stabilized.

**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 antenna or with an antenna that has less antenna gain. Requirements for the use of external antennas are specified in Exhibit "Declaration\_about\_antenna\_configurations" FCC ID: U6TZIGBIT-A2. The modular transmitter must be tested in a stand-alone configuration.

## **LuxLabs Ltd.**

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The EUT was tested in a stand-alone configuration. The module was fixed in the Casira Development Kit of CSR (Cambridge Silicon Radio) during the test. See also test setup photos in test report (Exhibit Test Report FCC Part 15.247). For radiated measurements, the required distance of 10 cm was ensured by a special connector.

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

The EUT will be labelled with its own FCC ID number. The label is specified in Exhibit "Label Sample/Loc". If the module is installed inside of an end-product, the label will not be visible. In this case the OEM customer will be instructed to how to apply the exterior label.

**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

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

This OEM module is approved for use in products operating as mobile and portable transmitting device with respect to 2.1091 and 2.1093. This grant is valid only when the device is sold to OEM integrators. OEM manufacturers and OEM integrators are instructed to ensure that the end 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.

Sincerely,

Signature



Name

Vladimir Ivanov

Title

Head of Core Technologies Department

Company

LuxLabs Ltd. dba MeshNetics