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

Registered office:
u-blox AG
Zürcherstrasse 68
8800 Thalwil
Switzerland
info@u-blox.com
support@u-blox.com

Request for Part 15 Single-Modular Transmitter Approval

Company name: u-blox AG

FCC ID: XPYJODYW6A

FCC Part 15 Certification

To whom it may concern:

Herewith we state that the requirements according to FCC Part 15.212 are met and the module qualifies for a single modular transmitter approval.

In CFR Title 47 Chapter I Subchapter A Part 15 Subpart C Section 15.212 there are eight numbered requirements that our device complies with:

1. The modular transmitter must have its own RF shielding

The module has its RF-parts enclosed by a shield cover soldered onto the module ground plane. See external photos.

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

The module does not have modulation inputs. The electrical interface available to the module integrator consists of Power supply, UART, SPI and I/O signals. The interface signals are internally buffered by the module System on Chip and cannot affect the modulation. Detailed instructions on how to connect these interface signals are given in the integration manual.

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

The module SoC (System on Chip) has its own internal voltage regulators. In case the supply voltage fluctuates internal voltages will be kept unaffected.

4. The modular transmitter must comply with the antenna requirements of Section 15.203, 15.204(b) and 15.204(c)

The RF-ports of module versions JODY-W683-21A, JODY-W683-01A, JODY-W682-01A, JODY-W683-11A, JODY-W682-11A, JODY-W663-01A and JODY-W662-01A is available at a solder land and the antenna trace reference design guides the module integrator how to connect this solder land to U.FL connectors.

The RF ports of M2-JODY-W683 are available at two U.FL connectors.

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

The module JODY-W683-21A is embedded on the M.2 card M2-JODY-W683-21A. The M2-JODY-683 is connected to the carrier board through an adapter and was tested in a stand-alone configuration.

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

The module is labelled with its own FCC ID number.

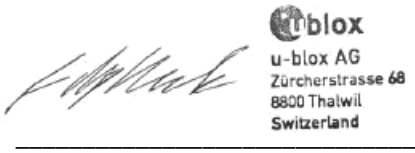
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

The required FCC rules has been fulfilled and all instructions for maintaining compliance has been clearly stated in the user manual

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

JODY-W683-21A, JODY-W683-01A, JODY-W682-01A, JODY-W683-11A, JODY-W682-11A, JODY-W663-01A, JODY-W662-01A and M2-JODY-W562 complies with the RF exposure limits when integrated into host devices categorized as mobile and/or fixed. See separate document for RF exposure calculations.

Sincerely,



Filip Kruzela, Certification Manager, u-blox AG