

Attn: Reviewing Engineer

Federal Communications Commission

7435 Oakland Mills Road Columbia, MD 21046

HVIN: FCC Certification Number: Approval Date:

JODY-W164-03A XPYJODYW164 2018-07-20

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Application to Class II Permissive Change

This request is to add an antenna and trace design changes to the JODY-W164-03A module with FCC ID XPYJODYW164. The trace design and the antenna are included in a product commercialized by one of u-blox's customers. No hardware changes have been made to the JODY-W164-03A.

New Antennas:

Model Type Frequency range Peak Gain
APAMBJ-170 RP-SMA 2.4 GHz, 5.0 GHz 4.0 dBi/ 5.2 dBi

To compare the measurement results of the new antenna and the changed trace designs with the already certified reference design, the following tests were performed:

Maximum Conducted Output Power Peak Power Spectral Density Undesirable Emissions; General Field Strength Limits Band Edge Transmitter Spurious Radiated Emissions Band Edge Compliance Radiated

The power values have been reduced to fulfill the FCC requirements. See the test reports MDE_UBLOX_1814_FCCa_rev2 and MDE_UBLOX_1814_FCCb_rev2 for details.

Thank you for your attention in this matter.

Yours Sincerely,

Filip Kruzela

Certification Manager, u-blox AG

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