



775 Montague Expressway
Milpitas, CA 95035
Tel: 408-526-1188
Fax: 408-526-1088
Email: sales.eaw@us.bureauveritas.com

FCC CLASS II PERMISSIVE CHANGE REQUEST LETTER

| Reason for Amendment (current / obsolete) | Revision History | | Approved Date |
|---|------------------|-----|---------------|
| | From | To | |
| Initial Release (obsolete) | 1.0 | 1.0 | Feb-20-2012 |
| Update company logo (current) | 1.0 | 2.0 | Jul-29-2019 |



FCC Class II Permissive Change Request Letter

Date: 11/11/2020

To FCC:

RE: FCC Permissive II Change Request for Company: JADAK, a business unit of Novanta Corporation FCC ID: QV5MERCURY6E-M

We are submitting an application for a class II permissive change to the FCC approval of the Company name: JADAK, a business unit of Novanta Corporation, product description: M3E LF/HF Embedded RFID Module (FCC: **QV5MERCURY6E-M**, Grant Date: 11/30/2012).

The only changes are some components in the Tx path and the microcontroller are being replaced by new ones which have the similar specifications as the previous components they have replaced. The RF characteristics are not affected by the hardware change. See "190242_M6E-MICRO_M6E-M_Declaration" for components details.

Model Name: M6e-Micro
Model Number: 700-0170-02
Hardware REV: 400-1034-04
Software REV: 1.D.0.E

Model Name: M6e-M
Model Number: 700-0167-02
Hardware REV: 400-0052-04
Software REV: 1.D.0.E

- 1) Microcontroller is being replaced by a new one.
- 2) The input switch in the transmit path, which selects through which regional filter the RF is transmitted, is being replaced.
- 4) The output switch that selects if the RF needs to be transmitted through port1 or port2 is being replaced.
- 5) The EMI filter is being replaced.
- 6) The Baluns in the Tx and the Rx path are being replaced.
- 7) Adding Additional approved antenna: RHCP Patch Antenna, 9.5dBiC and Dipole Antenna 4dBd (see antenna specs)
- 8) Adding previously evaluated Channel plans to this hardware version filing. This is only a software change of the frequency and the end user cannot switch between channel plans.

The channel plan was changed to space 51 channels (changed from 50 channels), with a narrower spacing of 100kHz and 200kHz instead of the original 500kHz.

Original (MHz) Channel spacing is 500 KHz

902.75, 903.25, 903.75, 904.25, 904.75, 905.25, 905.75, 906.25, 906.75, 907.25, 907.75, 908.25, 908.75, 909.25, 909.75, 910.25, 910.75, 911.25, 911.75, 912.25, 912.75, 913.25, 913.75, 914.25, 914.75, 915.25, 915.75, 916.25, 916.75, 917.25, 917.75, 918.25, 918.75, 919.25, 919.75, 920.25, 920.75, 921.25, 921.75, 922.25, 922.75, 923.25, 923.75, 924.25, 924.75, 925.25, 925.75, 926.25, 926.75, 927.25

New (MHz) Channel spacing is 100 Hz

917.5, 917.6, 917.7, 917.8, 917.9, 918, 918.1, 918.2, 918.3, 918.4, 918.5, 918.6, 918.7, 918.8, 918.9, 919, 919.1, 919.2, 919.3, 919.4, 919.5, 919.6, 919.7, 919.8, 919.9, 920, 920.1, 920.2, 920.3, 920.4, 920.5, 920.6, 920.7, 920.8, 920.9, 921, 921.1, 921.2, 921.3, 921.4, 921.5, 921.6, 921.7, 921.8, 921.9, 922, 922.1, 922.2, 922.3, 922.4, 922.5

New (MHz) Channel spacing is 200 kHz:

917.4, 917.6, 917.8, 918, 918.2, 918.4, 918.6, 918.8, 919, 919.2, 919.4, 919.6, 919.8, 920, 920.2, 920.4, 920.6, 920.8, 921, 921.2, 921.4, 921.6, 921.8, 922, 922.2, 922.4, 922.6, 922.8, 923, 923.2, 923.4, 923.6, 923.8, 924, 924.2, 924.4, 924.6, 924.8, 925, 925.2, 925.4, 925.6, 925.8, 926, 926.2, 926.4, 926.6, 926.8, 927, 927.2.

All of the above replacement components have same specifications as the previous ones they replaced.

Sincerely,



Eva Gravius
125 Middlesex Turnpike, Bedford MA 01730