

Date: April 2, 2024

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Application for Class 2 Permissive Change to FCC Authorized Transceiver with FCC ID: AZ489FT7119

Dear Sir/Madam,

A permissive change is requested for the subject transceiver which is marketed in the United States and elsewhere.

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A. DESCRIPTION OF PRODUCT CHANGES:

- To standardize the APX NEXT and APX NEXT XE models with APX NEXT XN model. All the models shall be electrically identical based on the APX NEXT XN model.
- G1 prime chipset (Rodinia, RF Front End IC and Congo chipset): Drop in replacement from the same manufacturer that has the same function and form factor.
- NFC IC chipset EOL: A non-substantive re-layout was required to accommodate for the LDO and multiple capacitor parts replacement. The new circuitry meets the same specification as the previous part.
- Accelerometer circuit EOL: Minor re-layout required and the new part provides the same functionality as the previous part.
- Key Retention LDO EOL: A non-substantive re-layout was required to accommodate for the LDO and multiple capacitor parts replacement. The new circuitry meets the same specification as the previous part.
- One resistor was added to the MACE section to prevent transmitting in non-secure mode.
- Added a RC filter to the UART lines to resolve the false "Failed Accessory" reported by de-sense at the VHF spectrum.
- Shield SH3 height changed from 1.25mm to 1.35 mm, an increase of 0.1mm.
- Adding dual source components, which are electrically and mechanically equivalent to resolve EOL cases and mitigate future part shortages.
- Other non-transmitter changes included:
 - Microprocessor drop in replacement
 - Peripheral sensor IC replacement with minor re-layout
 - Adding PORON PADS to protect the magnetometer
 - RX electrical switch, SDRAM and Flash memory drop in replacement due to EOL
- No change to the existing sales model number.
- Re-used shipping batteries, chargers and accessories.
- Refer to the following pages on the comparison photo before and after changes.

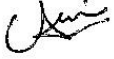
B. PERFORMANCE DIFFERENCES:

EME & EMC have been assessed and no degradation found compared to the original filing and still within the FCC limits.

C. CONCLUSION:

These radios continued to meet all FCC emissions requirements for which authorization was granted.

Sincerely,



Arine Lee
FCC/IC Certification Manager
E-mail : arinelee@motorolasolutions.com