

Judgement letter

Federal Communications Commission
7435 Oakland Mills Road
ColumbiaMD21046

Date:07.25.2024

To Whom It May Concern:

This purpose of this filing is to request an EQUIPMENT MODIFICATION for FCC ID: 2AG6N-M20

A. DESCRIPTION OF PRODUCT CHANGES

1. We declare that this variant device does not increase the RF output power for all RF parts, and RF PCB layout are not changed;
See TuneUp
2. Change antennas and location.

Different	Model:M20	Model:M20SE
Antenna Gain	GSM850:-3.51dBi PCS1900:0.42dBi WCDMAB2:0.42dBi WCDMAB4:0.29dBi WCDMAB5:-3.51dBi LTEBand2:0.42dBi, LTEBand4:0.29dBi, LTEBand5:-3.51dBi, LTEBand7:0.25dBi, LTEBand12:-2.87dBi, LTEBand13:-4.01dBi, LTEBand17:-2.87dBi, LTEBand25:0.42dBi, LTEBand26:-3.17dBi, LTEBand41:0.25dBi, LTEBand66:0.29dBi, LTEBand71:-1.55dBi, WiFi2.4G:0.18dBi WiFi5G:2.53 dBi BT/BLE:0.18dBi	GSM850:-1.94dBi PCS1900:-1.72dBi WCDMAB2:-1.72dBi WCDMAB4:0.93dBi WCDMAB5:-1.94dBi LTEBand2:-1.72dBi, LTEBand4:0.93dBi, LTEBand5:-1.94dBi, LTEBand7:1.85dBi, LTEBand12:-1.83dBi, LTEBand13:-1.98dBi, LTEBand17:-1.83dBi, LTEBand25:-1.72dBi, LTEBand26:-1.94dBi, LTEBand41:1.85dBi, LTEBand66:0.93dBi, LTEBand71:-1.83dBi, WiFi2.4G:0.05dBi WiFi5G:3.44dBi BT/BLE:0.05dBi
Antenna type	Wired loop NFC Antenna FPC Antenna for others	FPC loop NFC Antenna FPC Antenna for others

See the antenna info.

3. Minor component:

Different	Model:M20	Model:M20SE
USB PCB circuits	N/A	USB charging function circuits and WWAN DIV(RX) antenna interface connecting point (The RF TX function is not affected)
Main PCB	USB Port WWAN DIV(RX) antenna interface connecting pin Front PCB provide NFC antenna interface connecting pin	Add WWAN DIV(RX) antenna interface connecting point and Remove WWAN DIV(RX) antenna interface connecting pin Remove USB Port Remove Front PCB provide NFC

		antenna interface connecting pin Reverse PCB add NFC antenna interface connecting pin
Scanning camera	HVIN: M20S1 – Yes HVIN: M20S0 – No	HVIN: M20SE1 – Yes HVIN: M20SE0 – No

See Internal Photos/Schematics/PartsList.

4. Appearance changes:

Different	Model:M20	Model:M20SE
Size	230*78*50mm	172*78*18mm

See External photos.

5. Software and hardware version:

Different	Model:M20	Model:M20SE
Hardware version	V030	V030
Software version	1.40RB	1.40RB

6. Printing module/circuits:

Different	Model:M20	Model:M20SE
Printing module/circuits	Yes	N/A

See Internal Photos/Schematics/PartsList/BlockDiagram.

B. PERFORMANCE DIFFERENCES

Description	Additional testing	Remark
FCC Part15.247 BT Report	Need testing	Due to Clause A.2~A.6 ,Model:M20 have fully tested, the Model:M20SE add Radiated spurious emission and AC line Conducted emission testing.
FCC Part15.247 BLE Report	Need testing	Due to Clause A.2~A.6 ,Model:M20 have fully tested, the Model:M20SE add Radiated spurious emission and AC line Conducted emission testing
FCC Part15.247 WiFi 2.4G Report	Need testing	Due to Clause A.2~A.6,Model:M20 have fully tested, the Model:M20SE add Radiated spurious emission and AC line Conducted emission testing
FCC Part15.407WiFi 5G Report	Need testing	Due to Clause A.2~A.6, XX ,Model:M20 have fully tested, the Model:M20SE add Radiated spurious emission and AC line Conducted emission testing
FCC Part15.407WiFi 5GDFS Report	N/A	Due to all change does not affect DFS functionality, so Model:M20 have fully tested
FCC 2G/3G/4G Test Report	Need testing	Due to Clause A.2~A.6, Model:M20 have fully tested, ERIP/ERP RF power use max antenna gain for both Model:M20 and M20SE. The Model:M20SE add Radiated spurious emission and AC line Conducted emission testing
SAR Test Report	Need testing	Due to Clause A.2~A.6, Model:M20 and M20SE have fully tested.
NFC RF EXPOSURE EVALUATION	Need testing	Due to Clause A.2~A.6 ,Model:M20 and M20SE have evaluated.

C. CONCLUSION

This radio continues to meet all FCC standard requirements.

Please contact me if you have any questions or need further information regarding this application.

Sincerely,



Signature

Date:2024-07-25

Printed Name of Signee: Yanyan Chen

Company: Fujian LANDI Commercial Equipment Co.,Ltd.

Address: Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, China

Tel: 086-0591-88502210

Fax: 086-059188077279

Email: chenyy@landicorp.com