

Date: Jan. 30, 23

Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Division
7345 Oakland Mills Road
Columbia, Maryland 21046

Subject: FCC Class II Permissive change for FCC ID: 2ACCJB195 (Model: HH63AF)

To Whom It May Concern,

This is to request a Class II Permissive change for FCC ID: 2ACCJB195 (Model : HH63AF) granted on 11/30/2022.

The Major change filed under this application is as below, otherwise are identical.

● SOFTWARE MODIFICATIONS:

Protocol Stack changes: no change

MMS/ STK/ USAT/ USIM changes: no change

DM/ SUPL/ VT/ FUMO/ SWP/ HCI: no change

Other changes detailed: no change

● HARDWARE MODIFICATIONS:

➤ Baseband changes: **NO**

➤ Band changes: **NO**

Product	GSM	UMTS	LTE
HH63AF	NA	NO	NO
HH63AF	NA	NO	NO

➤ Antenna changes: **HH63AF support two external antennas**

➤ PCB Layout changes: NO

➤ Main components changes: NO

	Base Band	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
UMTS FDD I	NO	NO	NO	NO	NO	NO
UMTS FDD II	NO	NO	NO	NO	NO	NO
UMTS FDD IV	NO	NO	NO	NO	NO	NO
UMTS FDD V	NO	NO	NO	NO	NO	NO
UMTS FDD VIII	NO	NO	NO	NO	NO	NO

	Base Band	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
LTE B2	NO	NO	NO	NO	NO	NO
LTE B4	NO	NO	NO	NO	NO	NO
LTE B5	NO	NO	NO	NO	NO	NO
LTE B7	NO	NO	NO	NO	NO	NO
LTE B28	NO	NO	NO	NO	NO	NO
LTE B66	NO	NO	NO	NO	NO	NO

	Antenna	AP	MODEM	Transceiver	Balun	Band pass filter	duplexer
WiFi	NO	NO	NO	NO	NO	NO	NO

➤ WiFi changes: No

➤ Other components changes: **HH63AF adds two SMA connectors to support external antennas**

➤ Other changes detailed: No

Accessories	HH63AF	HH63AF	Remark
Charger	NA	NA	
Battery	NA	NA	
USB cable	NA	NA	
Headset	NA	NA	

➤ **MECHANICAL MODIFICATIONS:**

- Use new metal front/back cover or keypad: NO
- Mechanical shell changes: NO
 - Whole size of EUT: NO
 - Distance of Ear reference point to bottom of handset: NO
 - Other trinkets to change the surface of handset: NO
- Other changes detailed: **The HH63AF back cover has 2 external antenna openings**

For details, please refer “Declaration of changes” provided by TCL.

For the above, we performed test as below, other test result coming from the initial model. For details, please refer to the relevant test reports.

Adding charger, Headset, Battery	
FCC certification part15B testing	additional for 1 charger
UMTS part	
UMTS mobile phone FCC certification part22/24 testing	1900、850: Radiated TCs for adding antenna
UMTS mobile phone FCC certification part27 testing	Radiated TCs for adding antenna
LTE part	
LTE mobile phone FCC certification part22/24/27 testing	Band2/5/7/66 Radiated TCs for adding antenna,band 4 no test
WiFi part	
Wi-Fi FCC Part15E DFS master testing for 5GHz 802.11a/n/ac per antenna port	share basic model results
WiFi 802.11a/n/ac 5G UNII-1&2A&2C&3(BW20&40&80MHz) FCC certification part15E testing	share basic model results
WiFi 802.11b/g/n 2.4G (BW20&40MHz) FCC certification part15C testing	share basic model results
USB part	
FCC certification part15B testing	RE for adding antenna
Certification part	
GSM/UMTS/LTE TCB Certification	PC II
FCC MPE SAR testing	All TCs

Thank you.

Sincerely,

Annie Jiang

Name:

Title:

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