

Date: Jun. 6, 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: 2ACCJH168 (Model: T609L)

To Whom It May Concern,

This is to request a Class II Permissive change for FCC ID: 2ACCJH168 (Model: T609DL) granted on Feb., 1st, 2023.

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

● **SOFTWARE MODIFICATIONS:**

- OS update (e.g. from Android 12 to 13) / change (e.g. from Android to other OS) : No
- Protocol Stack changes: **No**
- MMS/STK/USAT/USIM changes: **No**
- DM/SUPL/VT/FUMO/SWP/HCI: **No**
- Other changes detail: Enable n2/5 SA, and n12/48 NSA & SA through modem driver, hardware had no change. Disable some LTE Bands & NR bands like LTE B3/20/28 and NSA n30 through software, hardware had no change.

Model	Frequency Band	CA Bands
T609DL	2G: 850/900/1800/1900 3G: B1/2/4/5/8 4G: B2/3/4/5/7/12/13/20/25/26/28/41HPUE/48/66/ 71 5G SA&NSA : n25(40MHz)/41(100MHz)HPUE/66/71/77(100 MHz)HPUE 5G NSA:n2/5/30	Bands Details as attachd "Bands list"
T609L	2G: 850/900/1800/1900 3G: B1/2/4/5/8 4G: B2/4/5/7/12/13/25/26/66/71/41/48 5G NSA: n2/5/12(add)/25/41(PC2 HPUE)/48(PC3)(Add)/66/71/77(PC2 HPUE)  5G SA: n2(Add)/5 ( add ) /12 (add)/25/41(PC2 HPUE)/48(PC3)(Add)/66/71/77(PC2 HPUE)	Bands Details as attachd "Bands list"

**HARDWARE MODIFICATIONS:**

- Baseband changes: **No**
- Band changes: **No** Main bands for conformance testing changes (Yes/No): **No**

Product	GSM	UMTS	LTE	LTE CA	5G NR SA	5G NR NSA
T609DL	No	No	No	No	No	No
T609L	No	No	No	No	No	No

Band change details for LTE CA/5G NR SA/NSA: (if applicable)

Technology	T609DL	T609L
LTE CA	Bands Details as attachd “Bands list”	Bands Details as attachd “Bands list”
5G EN-DC	Bands Details as attachd “Bands list”	Bands Details as attachd “Bands list”
5G NR-CA	Bands Details as attachd “Bands list”	Bands Details as attachd “Bands list”

➤ Antenna changes: TBD PCB Layout/layout/material changes: No

➤ Main components changes:

GSM	Base Band	Antenna	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
GSM 850	No	No	No	No	No	No	No
GSM 900	No	No	No	No	No	No	No
GSM 1800	No	No	No	No	No	No	No
GSM 1900	No	No	No	No	No	No	No

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

LTE	Base Band	Antenna	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
LTE B2	No	No	No	No	No	No	No
LTE B4	No	No	No	No	No	No	No
LTE B5	No	No	No	No	No	No	No
LTE B7	No	No	No	No	No	No	No
LTE B12	No	No	No	No	No	No	No
LTE B13	No	No	No	No	No	No	No
LTE B25	No	No	No	No	No	No	No
LTE B26	No	No	No	No	No	No	No
LTE B48	No	No	No	No	No	No	No
LTE B66	No	No	No	No	No	No	No
LTE B71	No	No	No	No	No	No	No
LTE B41 (PC2 HUPE)	No	No	No	No	No	No	No
LTE B48 (PC3)	No	No	No	No	No	No	No

NR	Base Band	Antenna	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
NR n2	No	No	No	No	No	No	No
NR n5	No	No	No	No	No	No	No
NR n12 (New Add)	No	No	No	No	No	No	No
NR n25	No	No	No	No	No	No	No
NR n41 (PC2 HPUE)	No	No	No	No	No	No	No
NR n48 (PC3) (New Add)	No	No	No	No	No	No	No
NR n66	No	No	No	No	No	No	No
NR n71	No	No	No	No	No	No	No
NR n77 (PC2 HPUE)	No	No	No	No	No	No	No

Other Radio	Antenna	AP	MODEM	Transceiver	Balun	Band pass filter	Triplexer
Bluetooth	No	No	No	No	No	No	No
Wi-Fi	No	No	No	No	No	No	No

- FM changes: **No**
- GPS changes: **No** (e.g. Saw is different)
- Memory:-TP/LCD/ Camera/SIM changes: **No**
- Other changes detailed: **No**

● **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: **No** (e.g. new mechanical design)

● **Accessory changes:**

➤ Use new charger/battery/headset/USB cable: No

For the above, we performed n5/12/48/DC\_5A\_n41A/DC\_12A\_n41A/DC\_5A\_n48A SAR/part22/24/27 testing & 15B & HAC T-coil 5G testing OTT tests. Other test result coming from the initial model T609DL. For details, shown as below. And please refer to the relevant test reports. PS: NR Band 25 overlaps the entire frequency range of NR Band 2. Therefore, test data provided in the cellular report covers NR Band 2 as well as NR Band 25.

	Items	Band	Comment
1.1	NR part		
1.1.1	NR SA mobile phone FCC certification part22/24/27/90 RSE testing per band	n2/5/12/48/25/41/66/71/77	n2: no test, n5/12/48: all TCs, others share basic model results
1.1.2	NR mobile phone FCC certification part96 CBRS IOP testing	n48	All TCs
1.1.3	NR SA mobile phone FCC certification part22/24/27/90 testing per band	n2/5/12/48/25/41/66/71/77	n2: no test, n5/12/48: all TCs, others share basic model results
1.1.4	NR SA mobile phone FCC certification SAR testing acc to Oet65 per band	n2/5/12/48/25/41/66/71/77	n2: no test, n5/12/48: all TCs, others share basic model results
1.1.5	NR NSA/SA mobile phone FCC SAR testing for main EN-DC per band	n2/5/25/48/41/66/71/77	one ENDC all TCs for n41/48, others share basic model results
1.1.6	NR NSA mobile phone FCC RSE testing per EN-DC per band	22 ↑ ENDC	DC_5A_n41A, DC_12A_n41A, DC_5A_n48A: all TCs, others share basic model results
1.2	LTE part		

1.2.1	LTE mobile phone FCC certification SAR testing acc to Oet65	FDD2/4/5	share basic model results
1.2.2	LTE mobile phone FCC certification SAR testing acc to Oet65	FDD7/12/13/25/26/41/41HPUE/48/66/71	share basic model results
1.2.3	LTE mobile phone FCC certification part96 CBRS IOP testing	TDD48	share basic model results
1.2.4	LTE mobile phone FCC certification part22/24/27 testing	FDD2/4/5	share basic model results
1.2.5	LTE mobile phone FCC certification part22/24/27 testing	FDD7/12/13/25/26/41/48/66/71	share basic model results
1.3	Adding charger, Headset,Battery		
1.3.1	FCC certification part15B testing	/	share basic model results
1.4	GSM part		
1.4.1	GSM mobile phone FCC certification SAR testing	1900,850	1900、850: share basic model results
1.4.2	GSM mobile phone FCC certification part22/24 testing	850,1900	850、1900: share basic model results
1.5	UMTS part		
1.5.1	UMTS mobile phone FCC certification part27 testing	1700	share basic model results
1.5.2	UMTS mobile phone FCC certification SAR testing	850,1700,1900	850、1700、1900: share basic model results
1.5.3	UMTS mobile phone FCC certification part22/24 testing	1900,850	1900、850: share basic model results
1.6	BT part		
1.6.1	BT 5.0 FCC certification part15C testing	/	share basic model results
1.7	WiFi part		

1.7.1	WiFi 802.11a/n/ac 5G UNII-1&2A&2C&3(BW20&40&80MHz) DFS FCC certification part15E testing	/	share basic model results
1.7.2	WiFi 5G FCC certification SAR testing	/	share basic model results
1.7.3	WiFi 802.11b/g/n 2.4G (BW20&40MHz) FCC certification part15C testing	/	share basic model results
1.7.4	WiFi 2.4G FCC certification SAR testing	/	share basic model results
1.7.5	WiFi 802.11a/n/ac 5G UNII-1&2A&2C&3(BW20&40&80MHz) FCC certification part15E testing	/	share basic model results
1.8	USB part		
1.8.1	FCC certification part15B testing	/	RE TCs
1.9	HAC part		
1.9.1	HAC UMTS T-coil testing	1900,1700,850	1900、1700、850: share basic model results
1.9.2	HAC T-coil GSM testing OTT	/	share basic model results
1.9.3	HAC GSM T-coil testing	1900,850	1900、850: share basic model results
1.9.4	LTE RF –Emission 5G Wifi calling testing per channel	/	share basic model results
1.9.5	HAC LTE T-coil LTE testing OTT	/	share basic model results
1.9.6	LTE T-coil 2.4G Wifi calling testing	/	share basic model results
1.9.7	LTE RF –Emission VoLTE testing	TDD41/TDD41HPUE/TDD48	share basic model results
1.9.8	HAC CDMA RF emission testing	/	share basic model results,for NR

1.9.9	LTE T-coil VoLTE testing	/	share basic model results
1.9.10	HAC UMTS RF emission testing	850/1900/1700	share basic model results
1.9.11	HAC T-coil 2.4G Wifi testing OTT	/	share basic model results
1.9.12	HAC CDMA T-coil testing	/	for NR, 产品不支持 VONR, no test
1.9.13	HAC GSM RF emission testing	850/1900	share basic model results
1.9.14	HAC T-coil UMTS testing OTT	/	share basic model results
1.9.15	HAC T-coil 5G Wifi testing OTT	/	share basic model results
1.9.16	LTE T-coil 5G Wifi calling testing per channel	/	share basic model results
1.9.17	LTE RF –Emission 2.4G Wifi calling testing	/	share basic model results
1.9.18	HAC T-coil 5G testing OTT	/	n2/5/12/48: all TCs, others share basic model results

Thank you.

Sincerely,

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