



Declaration of changes from T609DL to T609J

General: T609J is a variant product of T609DL

● SOFTWARE MODIFICATIONS:

- Protocol Stack changes: No
- MMS/STK/USAT/USIM changes: No
- DM/SUPL/VT/FUMO/SWP/HCI: Yes ,not support DM/FUMO
- Other changes detailed:
 1. open LTE B1 & B17 & B29 & B38 through software
 2. open NR B78,B38,B2,B5,B7 through software
 3. software disable 2G Bands,LTE B48 and 5GNR n30.
 4. change BT power parameter due to different customer's target requirement, BT hardware portion is consistant with T609DL

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 : n25(40MHz)/41(100MHz)HPUE/66/71/77(100MHz)HPUE 5G NSA: n25(40MHz)/41(100MHz)HPUE/66/71/77(100MHz)HPUE/2/5/30	Bands Details as attachd "Bands list"
T609J	2G: 850/900/1800/1900 (software disable 2G Bands) 3G: B1/2/4/5 4G: B1(add)/2/3/4/5/7/12/13/17(add)/20/25/26/29(add)/38(add)/41//66/71 5G SA: n2(add)/5(add)/7(add)/25/41/66/71/77/78(add) /n38(add) 5G NSA: n2/5/25/41/66/71/77/78(add)	Bands Details as attachd "Bands list"

● HARDWARE MODIFICATIONS:

- Band changes: YES,
 1. Change another duplexer to support LTE B7 and n7 meanwhile.(original T609DL duplexer only can support LTE B7, T609J new duplexer can support LTE B7 and n7)
 2. add a new RX SAW to support B29

➤ PCB Layout changes: No

➤ Main RF components changes:

	Antenna	Baseband AP	Base band Modem	Transceiver	Power Amplifier	Rx SAW Filter	ASM
GSM850	No	No	No	No	No	No	No
GSM900	No	No	No	No	No	No	No
GSM1800	No	No	No	No	No	No	No

GSM1900	No	No	No	No	No	No	No
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	Antenna	Base band AP	Base band Modem	Transceiver	Power Amplifier	Tx SAW Filter	Duplexer	ASM
UMTS2100	No	No	No	No	No	No	No	No
UMTS1900	No	No	No	No	No	No	No	No
UMTS1700	No	No	No	No	No	No	No	No
UMTS850	No	No	No	No	No	No	No	No



	Antenna	AP	Base band AP	Base band Modem	Power Amplifier	Tx SAW Filter	Rx SAW Filter	Duplexer	ASM
LTE Band 1(add)	No	No	No	No	No	No	No	No	No
LTE Band 2	No	No	No	No	No	No	No	No	No
LTE Band 3	No	No	No	No	No	No	No	No	No
LTE Band 4	No	No	No	No	No	No	No	No	No
LTE Band 5	No	No	No	No	No	No	No	No	No
LTE Band 7	No	No	No	No	No	No	No	Yes	No
LTE Band 12	No	No	No	No	No	No	No	No	No
LTE Band 13	No	No	No	No	No	No	No	No	No
LTE Band 17 (add)	No	No	No	No	No	No	No	No	No
LTE Band 20	No	No	No	No	No	No	No	No	No
LTE Band 25	No	No	No	No	No	No	No	No	No
LTE Band 26	No	No	No	No	No	No	No	No	No
LTE Band 29 (add)	No	No	No	No	No	No	Yes	No	No
LTE Band 38	No	No	No	No	No	No	No	No	No
LTE Band 66	No	No	No	No	No	No	No	No	No
LTE Band 71	No	No	No	No	No	No	No	No	No
LTE Band 41	No	No	No	No	No	No	No	No	No



	Antenna	AP	Base band AP	Base band Modem	Power Amplifier	Tx SAW Filter	Rx SAW Filter	Duplexer	ASM
NSA&SA n25	No	No	No	No	No	No	No	No	No
NSA&SA n2	No	No	No	No	No	No	No	No	No
NSA&SA n5	No	No	No	No	No	No	No	No	No
NSA&SA n7 (add)	No	No	No	No	No	No	No	Yes	No
NSA&SA n38 (add)	No	No	No	No	No	No	No	No	No
NSA&SA n41	No	No	No	No	No	No	No	No	No
NSA&SA n66	No	No	No	No	No	No	No	No	No
NSA&SA n71	No	No	No	No	No	No	No	No	No
NSA&SA n77	No	No	No	No	No	No	No	No	No
NSA&SA n78 (add)	No	No	No	No	No	No	No	No	No



	Antenna	Baseband AP	Base band Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Diplexer
Bluetooth	No	No	No	No	No	No	No	No
Wi-Fi	No	No	No	No	No	No	No	No
NFC	Yes	NA	NA	NA	NA	NA	NA	NA

- FM changes: No
- LCD/ Speaker/ Camera/ Vibrator changes: (indicated the changed items if yes) No
- Other changes detailed:
 1. Battery changed to different manufacture model, but the technical parameter is same.
 2. Add NFC chip and peripheral related RLC(resistance capacitance inductance) to support NFC function, overall PCBA layout is no change.
 3. Add extra NFC Antenna to support NFC function, others separate antenna is consistent with original

● MECHANICAL MODIFICATIONS:

- Use new metal front/back cover or keypad: No
- Mechanical shell changes:
 - 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

APPROVED BY:

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Signature:

Date: 2023-02-03

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