

Declaration of changes from Initial 8189S to Variant 8189R

General: 8189R is a variant product of 8189S:

● 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: 8189R doesn't support OMA DM,FUMO.
- Other changes detail: 8189R has blocked some bands through software.

Product	GSM	UMTS	LTE	5G NR SA
8189S	800, 900, 1800, 1900	B1,B2,B4,B5,B8	B1,B2,B3,B4,B5,B7,B8,B1 2,B13,B14,B17,B20,B25, B26,B29,B30,B39,B40,B4 1,B48,B66,B71	n2,n5,n12,n14, n 25,n30,n41,n48, n66,n71,n77,n78
8189R	/	B2,B4,B5	B2,B3,B4,B5,B7,B12,B14, B20,B29,B66	n2,n5,n12,n14,n 66,n77

Technology	8189S	8189R
LTE CA	CA_4A-13A CA_13A-66A CA_2A-13A CA_2A-2A CA_2A-4A CA_2A-66A CA_2A-5A CA_4A-5A CA_5A-66A CA_4A-4A CA_5B CA_5A-5A CA_66A-66A CA_66B CA_66C CA_2A-48A CA_4A-48A CA_13A-48A CA_48A-66A CA_48C CA_4A-12A CA_12A-66A CA_2A-12A CA_2C CA_2A-71A CA_4A-71A CA_66A-71A CA_25A-25A CA_41C CA_41A-41A CA_4A-29A CA_2A-29A CA_12A-30A CA_2A-30A CA_4A-30A CA_5A-30A CA_29A-30A CA_30A-66A CA_29A-66A CA_2A-14A CA_14A-66A CA_14A-30A CA_5A-48A	CA_4A-29A CA_2A-5A CA_4A-5A CA_2A-12A CA_2A-29A CA_4A-12A CA_5A-66A CA_12A-66A CA_2A-66A CA_66A-66A CA_29A-66A CA_2A-14A CA_14A-66A
5G EN-DC	DC_13A_n2A DC_5A_n2A DC_66A_n2A DC_12A_n2A DC_30A_n2A	DC_5A_n2A DC_12A_n2A DC_66A_n2A DC_2A_n2A DC_14A_n2A



	DC_2A_n2A DC_14A_n2A DC_13A-66A_n2A DC_2A-13A_n2A DC_5A-66A_n2A DC_66A-66A_n2A DC_2A_n5A DC_66A_n5A DC_30A_n5A DC_2A-66A_n5A DC_66A-66A_n5A DC_2A-2A_n5A DC_66A_n25A DC_2A-66A_n25A DC_2A_n30A DC_5A_n30A DC_12A_n30A DC_14A_n30A DC_66A_n30A DC_2A_n41A DC_66A_n41A DC_2A-2A_n41A DC_2A-66A_n41A DC_2C_n41A DC_13A_n66A DC_5A_n66A DC_2A_n66A DC_12A_n66A DC_30A_n66A DC_66A_n66A DC_14A_n66A DC_7A_n66A DC_13A-66A_n66A DC_2A-13A_n66A DC_7A-7A_n66A DC_7C_n66A DC_2A-7A_n66A DC_2A-66A_n66A DC_7A-13A_n66A DC_7A-66A_n66A DC_66A_n71A DC_2A_n71A DC_2A-66A_n71A DC_66C_n71A DC_2A-2A_n71A DC_2C_n71A DC_66A-66A_n71A DC_2A-71A_n71A DC_66A-71A_n71A DC_2A-(n)71AA DC_66A-(n)71AA DC_13A_n77A DC_2A_n77A DC_5A_n77A DC_66A_n77A DC_30A_n77A DC_12A_n77A DC_14A_n77A DC_7A_n77A DC_2A-2A_n77A DC_66A-66A_n77A DC_13A-66A_n77A DC_2A-13A_n77A DC_2A-5A_n77A DC_2A-66A_n77A DC_5A-66A_n77A DC_5A_n78A DC_7A_n78A	DC_5A-66A_n2A DC_2A_n5A DC_66A_n5A DC_2A-66A_n5A DC_66A-66A_n5A DC_2A-2A_n5A DC_2A_n66A DC_5A_n66A DC_12A_n66A DC_66A_n66A DC_14A_n66A DC_2A-66A_n66A DC_2A_n77A DC_5A_n77A DC_66A_n77A DC_12A_n77A DC_14A_n77A DC_2A-2A_n77A DC_66A-66A_n77A DC_2A-5A_n77A DC_2A-66A_n77A DC_5A-66A_n77A
5G NR-CA	CA_n2A-n66A CA_n5A-n66A CA_n2A-n77A CA_n5A-n77A CA_n66A-n77A CA_n2A-n5A CA_n2(2A) CA_n5(2A) CA_n5B CA_n66(2A)	CA_n5A-n66A CA_n2A-n5A CA_n2(2A) CA_n66(2A) CA_n12A-n66A CA_n14A-n66A CA_n2A-n12A CA_n2A-n14A CA_n12A-n77A CA_n14A-n77A



CA_n66B CA_n2A-n48A CA_n48A-n66A CA_n5A-n48A CA_n48(2A) CA_n48B CA_n48C CA_n77C CA_n48A-n77A CA_n41A-n71A CA_n25A-n71A CA_n25A-n41A CA_n41A-n66A CA_n66A-n71A CA_n25A-n66A CA_n25A-n77A CA_n41A-n77A CA_n41(2A) CA_n41C CA_n71B CA_n25(2A) CA_n71(2A) CA_n71A-n77A CA_n12A-n66A CA_n14A-n66A CA_n30A-n66A CA_n14A-n66A CA_n2A-n12A CA_n2A-n14A CA_n2A-n30A CA_n5A-n30A CA_n12A-n30A CA_n14A-n30A CA_n12A-n77A CA_n14A-n77A CA_n2A-n77A CA_n5A-n77A CA_n30A-n77A	CA_n2A-n77A CA_n5A-n77A CA_n66A-n77A CA_n77(2A)
--	--

● HARDWARE MODIFICATIONS:

- Baseband changes: NO
- PCB layout/material changes: NO
- Main components changes: (备注：如下的频段列表是variant model 的频段，后面的器件是与原型机的器件对比结果：如果是新增的频段，那么器件变化的部分是new；如果是相同band的器件变化了，就是填写new)

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

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

LTE	Base Band	Antenna	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
LTE B2	No change	No change	No change	No change	No change	No change	No change
LTE B3	No change	No change	No change	No change	No change	No change	No change
LTE B4	No change	No change	No change	No change	No change	No change	No change
LTE B5	No change	No change	No change	No change	No change	No change	No change
LTE B7	No change	No change	No change	No change	No change	No change	No change



LTE B12	No change	No change	No change	No change	No change	No change	No change
LTE B14	No change	No change	No change	No change	No change	No change	No change
LTE B20	No change	No change	No change	No change	No change	No change	No change
LTE B29	No change	No change	No change	No change	No change	No change	No change
LTE B66	No change	No change	No change	No change	No change	No change	No change

NR	Base Band	Antenna	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter (SAW Duplexer)
NR n2	No change	No change	No change	No change	No change	No change	No change
NR n5	No change	No change	No change	No change	No change	No change	No change
NR n66	No change	No change	No change	No change	No change	No change	No change
NR n77	No change	No change	No change	No change	No change	No change	No change

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

- FM changes: NO
- GPS changes: NO
- Memory/TP/LCD/ Camera/SIM changes: LCD changes
- 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

● Accessory changes:

- Use new charger/battery/headset/USB cable: battery changed from TLp058D7 to TLp058C8.

● Update of standards: NO

APPROVED BY:

Project Manager: Ting Wang

Signature:

Date: January 21, 2026

Ting Wang
2026.1.21

