Statement

We **Quectel Wireless Solutions Co., Ltd** declare the following model:

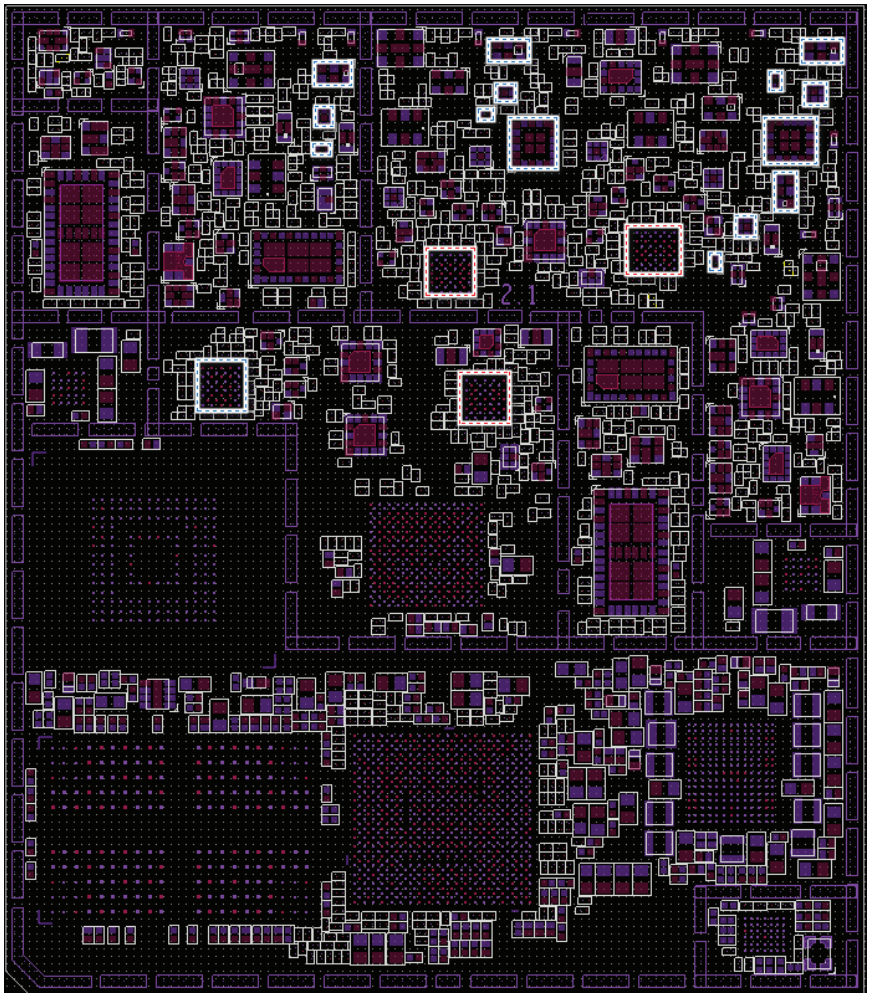
Product Name: 5G Sub-6 GHz LGA Module
Model Number: RG650V-NA
Hardware Version: R1.0, R1.1

RG650V-NA has two versions and they share the same PCB layout.

1. The original version R1.0 supports 8RX, but the new version R1.1 just supports 4RX and delete some related components.
2. The original version R1.0 uses Qualcomm Baseline LE1.0, while the new version R1.1 uses Baseline LE1.2 that supports N7 bandwidth 50MHz, N41 bandwidth 35MHz&45MHz, N66 bandwidth 45MHz, NR CA: N38A_N71A; ENDC: DC_71A_n48A/DC_4A_n5A and additionally supports the dual-SIM dual-standby capability.
3. The two versions of RG650V-NA use different LNA components. The original version R1.0 uses MXD83J5B, while the new version R1.1 uses QLN-5030-0-41PSP-TR-02-1.

Module	Baseline	Chipset	Frequency
RG650V-NA (R1.0)	LE1.0	SDX72	LTE: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71/ B38/B41/B42/B43/B48 NR: n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78
RG650V-NA (R1.1)	LE1.2		

- **PCB Layout changes**



The blue-highlighted parts are for the 8RX function and have been eliminated in new version R1.1.
The red-highlighted parts are LNA components.

- **HW Difference Table**

Designator	RG650V-NA R1.0 (Part Description)	RG650V-NA R1.1 (Part Description)
U3701	DPX204200DT-4277A1	NM
U3705	DPX204200DT-4277A1	NM
U3709	DPX204200DT-4277A1	NM
U3706	DPX204200DT-4377A1	NM
U3704	VC3726	NM
U3710	VC3726	NM
U3601	CAN1490N	NM
U3610	CAN1490N	NM
U3607	AW13504HFLR	NM
U3616	AW13504HFLR	NM
U3605	SAFFW2G59AA1E0AR1X	NM
U3606	SAFFW2G59AA1E0AR1X	NM

U3614	SAFFW2G59AA1E0AR1X	NM
U3615	SAFFW2G59AA1E0AR1X	NM
U2001	MXD83J5B	QLN-5030-0-41PSP-TR-02-1
U2004	MXD83J5B	QLN-5030-0-41PSP-TR-02-1
U3201	MXD83J5B	QLN-5030-0-41PSP-TR-02-1
U3204	MXD83J5B	QLN-5030-0-41PSP-TR-02-1

- **ANT Mapping Difference Table**

ANT Mapping	RG650V-NA R1.0	RG650V-NA R1.1
ANT1	**NR:** N2/N25/N66/N70 TRX N29 RX N5/N12/N13/N14/N26/N71 TRX N7/N30/N38/N41 RX N48/N77/N78 TRX **LTE:** B2/B4/B25/B66 TRX B29 RX B5/B12/B13/B14/B17/B26/B71 TRX B7/B30/B38/B41 RX B42/B43/B48 TRX	**NR:** N2/N25/N66/N70 TRX N29 RX N5/N12/N13/N14/N26/N71 TRX N7/N30/N38/N41 RX N48/N77/N78 TRX **LTE:** B2/B4/B25/B66 TRX B29 RX B5/B12/B13/B14/B17/B26/B71 TRX B7/B30/B38/B41 RX B42/B43/B48 TRX
ANT3	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 RX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 RX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX
ANT5	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 RX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 RX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX

	B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX	B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX
ANT7	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 TRX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX	**NR:** N2/N25/N66/N70 RX N29 RX N5/N12/N13/N14/N26/N71 RX N7/N30/N38/N41 TRX N48/N77/N78 RX **LTE:** B2/B4/B25/B66 RX B29 RX B5/B12/B13/B14/B17/B26/B71 RX B7/B30/B38/B41 RX B42/B43/B48 RX
ANT0	**NR:** N38/N41 RX N48/N77/N78 RX	NM
ANT2	**NR:** N38/N41 RX N48/N77/N78 RX	NM
ANT4	**NR:** N38/N41 RX N48/N77/N78 RX	NM
ANT6	**NR:** N38/N41 RX N48/N77/N78 RX	NM

Above changes won't impact the protocol and RF performance for same frequency.

Your assistance on this matter is highly appreciated.

Person responsible for making this statement.

Name/Surname:
Position/Title: Certification Manager
Issue Date: April 19,2024