

Statement

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

Product Name: 5G Redcap Sub-6 GHz Module

Model Number: RG255G-GL

Hardware Version: R1.0

RG255G-GL has two versions, one is the with GNSS version that uses 3 antennas, the other is without GNSS version that uses 2 antennas. They both use MT6813 chipset, share the same chipset baseline, hardware design and support same bands.

The difference is with GNSS version supports GNSS L1&L5 in ANT_GNSS port, but without GNSS version removed related components of GNSS L1&L5.

And for the RG255G-GL with GNSS version, it has three packaged types: LGA, MINIPCIE and M.2. They have the same frequency and share the same software & hardware design. MINIPCIE is make up with RG255G-GL LGA module and PCIe carrier board. M.2 is make up with RG255G-GL LGA module and M.2 carrier board. There is no any other internal changes in RG255G-GL module.

Please refer to following.

Module	Package Type	PMN FVIN	Frequency
RG255G-GL (with GNSS)	LGA MINIPCIE M.2	QUECTEL RG255G-GL RG255GGL00ACR01A04M21	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78 Dual-band GNSS: L1 and L5
RG255G-GL (without GNSS)	LGA	RG255G-GL RG255GGL00ABR01A04M21	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78

● HW Difference Table

Designator	RG255G-GL (with GNSS) (Part Description)	RG255G-GL (without GNSS) (Part Description)
U2601, U2603	IC RF LNA GNSS L1/L5 1.1x0.7mm H0.4m RO	NM
U1201	IC BB GNSS AG3335MV/B 73-BGA 0.4pitch 3.8x4.2mm H0.86mm RO	NM

U2602	IC RF DIPX LB:1166.22-1186.68MHz HB:1574.39-1605.89 MHz 1.5x1.1mm H0.65mm RO	NM
X1201	CRY TCXO 26MHz +/-0.5ppm 1.8V PINS4 2.0x1.6mm H 0.8mm RO	NM

● **ANT Mapping Difference Table**

ANT Mapping	RG255G-GL (with GNSS)	RG255G-GL (without GNSS)
ANT_MAIN	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/6/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78
ANT_DIV	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/6/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/71 LTE-TDD: B34/38/39/40/41/42/43/48 5G-NR FDD: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/66/71/85 5G-NR TDD: n38/40/41/48/77/78
ANT_GNSS	Dual-band GNSS: L1 and L5	NM

The change will not impact RF performance for the same frequency bands and do not affect testing results.

Person responsible for making this statement.

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Position/Title: Certification Manager