Quectel Wireless Solutions Company Limited

XMR202106EG91NAL

XMR202106EG91N original date of grant : 11/27/2018, Certificate number :182181379AA00

Model	Certified	New
	HW Version A	HW Version B
BC66	R2.1	R2.5

Above series models share the same hardware and software design. Here we need to update the hardware to replace the previous power chip. There are some differences between **Certified HW Version A** and **New HW Version B** on PCB design which are the power chip and its peripheral components. The details are shown as following pictures and table.

As compared to the original reported info, modification are made beyond what has been described in the letter that frequency range is narrowed innerward by 0.1MHz. Test values partial duplicated from Original for variant. There is only tested RF power output and Effective Radiated Power, Frequency Stability, Occupied Bandwidth, Band Edge Compliance, Receiver Spurious Emissions and AC Power Line Conducted Emissions for variant in this report.



The left is **HW Version A** and the right is **New HW Version B**.

Designator	R2.1 Position	R2.5 Position
	(mm, mm)	(mm, mm)

U201	PMIC DC-DC BOOST 1.8-5V	PMIC DCDC BOOST 0.7-5.5V
	ADJ 2.0A WL-CSP-16B 1.67	1.8-5.5V 1MHz 1Α 1μΑ
	x 1.67 mm H0.6mm RO	DFN2*2-6 2x2mm H0.8mm
		RO
C215	CAP X5R 10uF +/-20% 6.3V	CAP X5R 4.7uF +/-20% 6.3V
	CH0402 RO	CH0402 H0.65mm RO
L204	IND LOW 1.5uH +/-20%	IND LOW 2.2uH +/-20%
	0.095ohm 2.0A 2.0x1.6mm	0.135ohm 1.60A 2.0x1.6mm
	H1.0mm RO	H1.0mm RO
R203	NONE	RES MF 100K +/-1% 1/20W
		CH0201 RO
R204	NONE	RES MF 43K +/-1% 1/20W
		CH0201 RO
C216	CAP X5R 22uF +/-20% 6.3V	CAP X5R 47uF +/-20% 6.3V
	CH0603 RO	CH0603 H1.0mm RO
C220	CAP X5R 22uF +/-20% 6.3V	CAP X5R 47uF +/-20% 6.3V
	CH0603 RO	CH0603 H1.0mm RO
U202	NOT MOUNTED	NONE
C221	NOT MOUNTED	NONE
R205	NOT MOUNTED	NONE

We hereby state that there is no any other internal difference between them and the change is layout part of power supply BB which won't affect the RF portions and the original RF data can be re-used.

Your assistance on this matter is highly appreciated.

Sincerely,

Signature: Jean Hu

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