

Quectel Wireless Solutions Co., Ltd.

FCC Class II Permissive Change Request Letter

2026/01/26

To FCC:

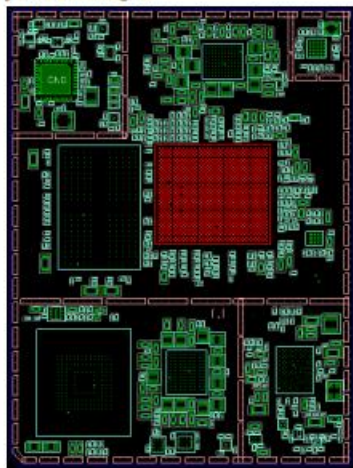
RE: FCC Permissive II Change Request for Company: Quectel Wireless Solutions Co., Ltd.
FCC ID: XMR2025SG565DWF

We are submitting an application for a class II permissive change to the FCC approval of the Company name: **Quectel Wireless Solutions Co., Ltd.**, product description: Smart Module with Wi-Fi 5G & Bluetooth (FCC: **XMR2025SG565DWF**, Original Grant Date: 03/15/2026).

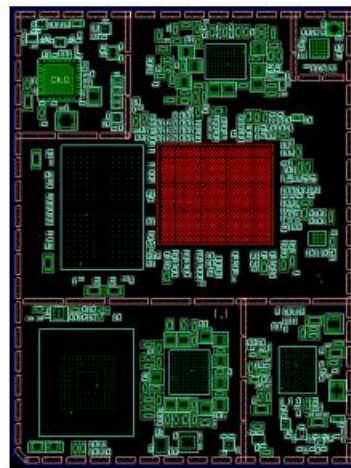
Here are the changes:

SG555D-WF use Qualcomm QCS5430 chipset and SG565D-WF use Qualcomm QCS6490 chipset, share the same chipset baseline, the differences between these chips as follows. The following changes won't impact the protocol and RF performance for same frequency.

- **PCB Layout changes**



SG555D-WF



SG565D-WF

- **HW Difference Table**

Designator	SG555D-WF (Part Description)	SG565D-WF (Part Description)
U0101	QCS5430	QCS6490

The CPU and GPU Core comparison and difference between these two chips as follows.

Variants		SG555D-WF	SG565D-WF
CPU	PA	QCS5430 FP1 2 × A78 @ 2.1 GHz 4 × A55 @ 1.8 GHz	QCS6490 1 × Gold Plus @ 2.7 GHz 3 × Gold @ 2.4 GHz 4 × Silver @ 1.9 GHz
	PB*	QCS5430 FP2.5 4 × A78 @ 2.1 GHz 4 × A55 @ 1.8 GHz	
GPU	PA	A642L @ 315 MHz (MH3.0 45 fps to 48 fps)	A643 @ 812 MHz (MH3.0 90+ fps)
	PB*	A642L @ 550 MHz (MH3.0 65 fps to 70 fps)	
AI (NPU)	PA	3.5 TOPS @ int8	12.15 TOPS @ int8

	PB*	6 TOPS @ int8	
Memory		6 GB LPDDR4X + 64 GB UFS (Default)	8 GB LPDDR4X + 128 GB UFS (Optional)
OS		Ubuntu 20.04	Ubuntu 20.04

Module	Chipset	Frequency
SG555D-WF	QCS5430	CPU: Kryo Gold: 2 high-performance Kryo Gold cores, each clocked at 2.13 GHz Kryo Silver: 4 low-power Kryo Silver cores running at 1.8 GHz each GPU: Adreno GPU 642 L
SG565D-WF	QCS6490	CPU: Kryo Prime: Single high-performance core clocked up to 2.7 GHz Kryo Gold: 3 high-performance cores running at 2.4 GHz Kryo Silver: 4 low-power cores operating at 1.9 GHz GPU: Adreno graphics processing unit (GPU) 643

Signature:  (January 26, 2026)

Place and date: Shanghai, 2026-01-26

Printed name: Jean Hu

Title: Certification Manager