RG2102

Antenna Specifications

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1 Electronic Specification

1.1 Top Antenna

1.1.1 VSWR & Gain

① DRX Passive Data (ANT2)



② MIMO DRX, PRX Passive Data (ANT3)



③ WIFIO Passive Data (ANT6)



1.2 BTM Antenna

1.2.1 VSWR & Gain

① Main Passive Data (ANT0)



Passive Chamber Data (Gain)									
BAND	Freq.[MHz]	Switch Logic	Gain [dB]		RAND		Switch Lowis	Gain [dB]	
			AVG.	Peak	DAND	Freq.[IVIFI2]	Switch Logic	AVG.	Peak
B71	617-698	RF1_CTL:00_47nH	(650-698) -3.44	-2.75	B29	717-728	DE2 CTL + 10 1EpU	-1.48	-0.58
B12	699-746	RF2_CTL : 01_22nH	-1.80	-1.43	B14	758-798	KFS_CIL . IU_ISHH	-1.22	-0.93
B5(26)	824-894		-1.44	-0.66	B20	791-862		-1.13	-0.66
B4(66)	1710-1755	RF4_CTL : 11_100pF	-1.83	-1.56	B8	880-960		-2.32	-1.33
	2110-2155		Kr4_CTL . TT_TOOPF	-3.05	-2.64	B3	1710-1880	RF4_CTL : 11_100pF	-1.89
B2(25)	1850-1990		-2.19	-1.66	B39	1880-1920		-2.05	-1.66
B41	2496-2690	RF1_CTL: 00_47nH	-3.55	-2.99	B1	1920-2170		-2.82	-2.03
					B30	2305-2360		-2.81	-2.39
					B7	2500-2690	RF1_CTL : 00_47nH	-3.55	-2.99
					B38	2570-2620		-3.34	-2.99

② MIMO PRX Passive Data (ANT1)



Passive Chamber Data (Gain)									
RAND	Freq.[MHz]	Switch Logic	Gain [dB]		RAND		Switch Logic	Gain [dB]	
BAND			AVG.	Peak	BAND	Freq.[IVI12]	Switch Logic	AVG.	Peak
B2(25)	1930-1990	-	-2.11	-1.72	B48	3550-3700		-1.79	-1.32
B4(66)	2110-2155		-2.45	-2.24	n77	3300-4200		-2.03	-1.12
B41	2496-2690		-5.12	-4.41					

③ UHB TRX0 Passive Data (ANT4)





④ WIFI1 Passive Data (ANT7)



2 Test Condition

2.1 Test Environment (Condition/Method)

① Voltage Standing Wave Ratio(VSWR)

Step 1. Set the frequency range after connect 50cm cable to Network analyzer.

Step 2. Connect Calibration Kit to Network analyzer and calibrate.

Step 3. Fix the cable and keep separation distance over 30cm for reducing effect by Network analyzer.

Step 4. Fix insulator over 5cm on the bottom of measuring antenna.

Step 5. Measure VSWR with setting marker of desired frequency.



② Radiation & Gain

Step 1. Calibrate the Chamber system using Horn antenna, and set up the software to control the Chamber system at the same time.

Step 2. Keep the measuring antenna to holder.

Step 3. Measure Gain & efficiency.



3 Antenna Type : PIFA

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Network Analyzer	Protek	A338	GSI_12090007	300kHz - 8G	Aug. 04. 2022	Aug. 04. 2023	VSWR
Network Analyzer	Agilent Technologies	ENA E5071B	MY42100528	300kHz - 8.5G	May. 02. 2022	May. 02. 2023	Radiation Gain

5 Test Site

Test Site	Vendor	Address
Korea	Patron	22, Samsung 1-ro 2-gil, Seokwoo-dong, Hwaseong-si, Gyeonggi-do