

Description of Permissive Change

The application is prepared for FCC class II permissive change for FCC ID: RYK-WNFQ291BEBT (Date of grant: 10/28/2024) the difference with original certification were list as below:

1. Adding a new antenna below:

Newly								
Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
4	Chain0/1	SparkLAN	AD-513AX	3.11	2.4~2.4835	Dipole	I-PEX MHF4	150
				4.46	5.150~5.850			
				4.07	5.850~5.895			
				4.53	5.925~6.425			
				4.06	6.425~6.525			
				4.04	6.525~6.875			
				3.97	6.875~7.125			
5	Chain0/1	SparkLAN	AD-510AX	2.27	2.4~2.4835	Dipole	RP-SMA (M)	150
				2.88	5.150~5.850			
				2.6	5.850~5.895			
				3.23	5.925~6.425			
				3.34	6.425~6.525			
				3.52	6.525~6.875			
				3.52	6.875~7.125			
6	Chain0/1	SparkLAN	AD-512AX	2.35	2.4~2.4835	Dipole	RP-SMA (M)	150
				3.00	5.150~5.850			
				2.80	5.850~5.895			
				2.87	5.925~6.425			
				3.02	6.425~6.525			
				3.02	6.525~6.875			
				2.61	6.875~7.125			
7	Chain0/1	SparkLAN	AD-516AX	1.65	2.4~2.4835	Dipole	I-PEX MHF4	250
				4.3	5.150~5.850			
				3.98	5.850~5.895			
				4	5.925~6.425			
				4	6.425~6.525			
				3.91	6.525~6.875			
				3.78	6.875~7.125			
8	Chain0/1	Johanson	2450AD18A6050	2	2.4~2.4835	Chip	MHF4L to SMA-F	-
				1.5	5.150~5.850			
				2.7	5.850~5.895			
				2.7	5.925~6.425			
				2.7	6.425~6.525			
				2.7	6.525~6.875			
				2.7	6.875~7.125			

2. Change shielding case and add thermal pad.

3. Change temperature operating range to -40° C ~85° C

Models difference was listed as below:

Brand	Model	Difference
Sparklan	WNFQ-291BEI(BT)	All models are electrically identical, different model names are for marketing purpose.
	WNFQ-291BE(BT)	
From the above models, model: WNFQ-291BEI(BT) was selected as representative model for the test and its data was recorded in this report.		

Except for the changes mentioned above, no other modification is performed.

A handwritten signature in cursive script, appearing to read 'Emerald'.

Emerald Chen/ Specialist
Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Tel: +886-3-264-1945
Fax: +886-3-327 0892
Email: emerald.chen@bureauveritas.com