



Description of Permissive Change

Date: November 3, 2021

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Attn: OET Dept.

Ref: Class II permissive change

Applicant: ZyXel Communications Corporation

Dear Examiner,

This is to request a Class II permissive change for FCC ID: I88C3000Z

This Equipment is prepared for FCC Reassessment, The difference between them are as Below information.

- ♦ Add 2nd source for 2.4GHz/5GHz FEM (pin-for-pin compatible, same function, no change in radio parameters).

	Brand	Model
2.4G Main source	RFMD	RFFM4252
2.4G 2nd source	RICHWAVE	RTC7625HE-1
5G Main source	RFMD	RFFM4552
5G 2nd source	RICHWAVE	RTC66529

- ♦ Add 2.4GHz/5GHz antennas.

Newly								
2.4GHz Antenna								
Antenna No.	PCB No.	Brand	Model	Antenna Gain (dBi) <Including cable loss>	Frequency Range (GHz)	Antenna Type	Antenna Connector	Cable Length (mm)
4	WJ1	be-comfortable	56-001-000106Z	3.42	2.4~2.4835	Dipole	None	295
5	WJ0	be-comfortable	56-001-000108Z	3.31	2.4~2.4835	Dipole	None	320
6	WJ2	be-comfortable	56-001-000107Z	3.25	2.4~2.4835	Dipole	None	270
5GHz Antenna								
Antenna No.	PCB No.	Brand	Model	Antenna Gain (dBi) <Including cable loss>	Frequency Range (GHz)	Antenna Type	Antenna Connector	Cable Length (mm)
5	JC2	be-comfortable	56-001-000109Z	3.83	5.15~5.85	Dipole	i-pex(MHF)	50
6	JC3	be-comfortable	56-001-000111Z	3.73	5.15~5.85	Dipole	i-pex(MHF)	85
7	JC1	be-comfortable	56-001-000109Z	3.74	5.15~5.85	Dipole	i-pex(MHF)	50

8	JCO	be-comfortable	56-001-000110Z	3.66	5.15~5.85	Dipole	i-pex(MHF)	85
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- ♦ Change 2.4GHz all antenna location and 5GHz(JCO) antenna location.
- ♦ The EUT has below model names and product, which are identical to each other in all aspects except for the following

Project name	Model	Interface						Remark
		WAN	LAN	DSL	USB	Wi-Fi 2.4G 3x3	Wi-Fi 5G 4x4	
WiFi-N VDSL2 4-port Combo WAN CPE	C3000Z	x1	x4	x1	x1 (2.0)	V	V	
Dual-Band Wireless AC/N VDSL2 Bonding Gateway	VMG4927-B50 A	x1	x4	x1	x1 (2.0)	V	V	1. Different housing 2. Different FW GUI login screen
Dual-Band Wireless AC/N Gigabit Ethernet Gateway	EMG6726-B10 A	x1	x4	NA	x1 (2.0)	V	V	1. Different housing 2. Different FW GUI login screen 3. Different main chip(Main chip:BCM63138UKFSBG & BCM63139UKFSBG ,Different DSL function) · 4. Layout and schematic will be the same as VMG4927-B50A.

If you have any questions regarding this application, please feel free to contact me.

Sincerely yours,



Emma Bao / Manager

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