

Description of Permissive Change

Date: September 18, 2019
 Federal Communications Commission
 Authorization and Evaluation Division
 7435 Oakland Mills Road
 Columbia, MD 21046

Attn: OET Dept.

Ref: FCC Class II Permissive change for FCC ID: UAY-W8997-M1216
 (Original approval date: 01/25/2017)

Applicant: **Marvell Semiconductor, Inc.**

Dear Examiner,

This is to request a Class II permissive change for FCC ID: UAY-W8997-M1216, originally granted on 01/25/2017 and Class II permissive change to add nine sets of antenna as below table.

Antenna No.	Brand	Model	chain no.	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	*Cable Length
4	Unictron	H2B1PC1A1C175L	Chain	1.6	2400-2500	PCB	I-pex	100±5mm
			0(Aux)	4.8	5150-5850			
			Chain	1.6	2400-2500	PCB	I-pex	100±5mm
			1(Main)	4.8	5150-5850			
5	LSR	001-0012	Chain	2	2400-2500	Dipole	RP-SMA	100mm
			0(Aux)	2	5150-5850			
			Chain	2	2400-2500	Dipole	RP-SMA	100mm
			1(Main)	2	5150-5850			
6	Laird	MAF94051	Chain	2.4	2400-2500	Dipole	RP-SMA	100mm
			0(Aux)	3.4	5150-5850			
			Chain	2.4	2400-2500	Dipole	RP-SMA	100mm
			1(Main)	3.4	5150-5850			
7	Taogles	GW.59.3153	Chain	2.86	2400-2500	Dipole	RP-SMA	100mm
			0(Aux)	4.74	5150-5850			
			Chain	2.86	2400-2500	Dipole	RP-SMA	100mm
			1(Main)	4.74	5150-5850			
8	Chang Hong	DA-2458-02-SMR	Chain	2.85	2400-2500	Dipole	RP-SMA	100mm
			0(Aux)	2.17	5150-5850			
			Chain	2.85	2400-2500	Dipole	RP-SMA	100mm
			1(Main)	3.13	5150-5850			
9	Unictron	H2B1PD1A1C385L	Chain	2.8	2400-2500	PCB	I-pex	100mm
			0(Aux)	4.2	5150-5850			
			Chain	2.8	2400-2500	PCB	I-pex	100mm
			1(Main)	4.2	5150-5850			

10	Molex	2042811100	Chain	2.562	2400-2500	PCB	I-pex	100mm
			0(Aux)	3.094	5150-5850			
			Chain	2.562	2400-2500	PCB	I-pex	100mm
			1(Main)	3.094	5150-5850			
11	Molex	1461531100	Chain	1.829	2400-2500	PCB	I-pex	100mm
			0(Aux)	2.485	5150-5850			
			Chain	1.829	2400-2500	PCB	I-pex	100mm
			1(Main)	2.485	5150-5850			
12	MAG.LAYERS	MSA-4008-25GC1-A2	Chain	2.98	2400-2500	PIFA	i-pex(MHF)	NA
			0(Aux)	5.16	5150-5850			
			Chain	2.98	2400-2500	PIFA	i-pex(MHF)	NA
			1(Main)	5.16	5150-5850			

The highest gain value used for conducted test item is from original report.

There is a decrease in the power setting configuration and the update with output power change issue is only for WLAN portion. BT portion is not affected at all.

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

Sincerely yours,



Debby Lin / Senior Specialist

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