



FCC Test Report

FCC ID : PANWM8192EU
Equipment : 11bgn USB module,2T2R
Brand Name : CC&C
Model Name : WM-8192EU
Applicant : CC&C Technologies, Inc.
8F, No.150, Jian Yi Rd, Zhonghe
District, New Taipei City, 235, Taiwan
Manufacturer : Kunshan CC&C Technologies,Co.,LTD.
No.9 Building, 3rd Main Street,
Kunshan Free Trade Zone, Jiangsu
Province,P.R. China
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 31, 2017, and testing was started from Oct. 31, 2017 and completed on Jan. 05, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR472267-03AC	01	Initial issue of report	May 14, 2019
FR472267-03AC	02	Add Testing Location Information	May 17, 2019



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	1	-	ALO140-052030	PIFA	I-PEX	3
	2					3
B	1	-	ALC140-051021-A	Print	I-PEX	3
	2					3
C	1	-	ALC140-052030-A	PIFA	I-PEX	3
	2					3
D	1	-	ALC160-051020-0000	Print	I-PEX	3.33
	2		ALC160-051021-0000			3.76
E	1	-	GY196HT625-001	Print	I-PEX	1.73
	2		GY196HT625-002			1.84
F	1	-	ALO160-052030-A	PIFA	I-PEX	3.54
	2		ALO160-052030-A			3.41
G	1	Master Wave	660023500G	Dipole	I-PEX	2.38
	2					2.38
H	1	WNC	81XCBB15.G01	PIFA	I-PEX	1.28
	2					1.28
I	1	WNC	81XCBB15.G02	PIFA	I-PEX	1.18
	2					1.18
J (Add)	1	Sevio	NTW01	Dipole	I-PEX	2.2
	2					

Note: 1: 802.11b/g only includes 1TX and Port 2 for emission.

Note: 2: 802.11n used two antennas are for signal transmitting and receiving.(2T2R Spatial Multiplexing MIMO configuration)

1.1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR472267-02

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Add antenna J	N/A

1.2 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

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