

FCC Test Report

FCC ID : TOR-C250
Equipment : 802.11 a/n/ac/ax + b/g/n/ax Access Point
Brand Name : Arista
Model Name : C-260
Applicant : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054
Manufacturer : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054
Standard : 47 CFR FCC Part 15.247

The product was received on May 09, 2019, and testing was started from Jun. 14, 2019 and completed on Jul. 05, 2019. 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
FR950730-05AC	01	Initial issue of report	Dec. 24, 2019
FR950730-05AC	02	Add Testing Location Information (This report is the latest version replacing for the report issued on Dec. 24, 2019)	Dec. 27, 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:

For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

Reviewed by: Jackson 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), ac (VHT20),ax(HEW 20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40), ax(HEW 40)	2422-2452	3-9 [7]

Radio 1

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX

Radio 2

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
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.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ The resource unit of HEW 20, HEW 40 only support full loading.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Arista	C-250	PIFA antenna	I-PEX	5G
2	Arista	C-250	PIFA antenna	I-PEX	5G
3	Arista	C-250	PIFA antenna	I-PEX	5G
4	Arista	C-250	PIFA antenna	I-PEX	5G
5	Arista	C-250	PIFA antenna	I-PEX	5G
6	Arista	C-250	PIFA antenna	I-PEX	5G
7	Arista	C-250	PIFA antenna	I-PEX	5G
8	Arista	C-250	PIFA antenna	I-PEX	5G
9	Arista	C-250	PIFA antenna	I-PEX	2.4G
10	Arista	C-250	PIFA antenna	I-PEX	2.4G
11	Arista	C-250	PIFA antenna	I-PEX	2.4G
12	Arista	C-250	PIFA antenna	I-PEX	2.4G
13	Arista	C-250	PIFA antenna	I-PEX	2.4G+5G
14	Arista	C-250	PIFA antenna	I-PEX	2.4G+5G
15	Arista	C-250	PIFA antenna	I-PEX	BT

Ant.	Gain (dBi)				
	Radio 0	Radio 1	Radio 2		Radio 3
	5G	2.4G	2.4G	5G	BT LE
1	5	-	-	-	
2	5	-	-	-	-
3	5	-	-	-	-
4	5	-	-	-	-
5	5	-	-	-	-
6	5	-	-	-	-
7	5	-	-	-	-
8	5	-	-	-	-
9	-	4	-	-	-
10	-	4	-	-	-
11	-	4	-	-	-
12	-	4	-	-	-
13	-	-	3.5	5	-
14	-	-	3.5	5	-
15	-	-	-	-	3.5

For 2.4GHz function:

For IEEE 802.11 b/g/n/ac/ax mode (4TX/4RX)(Radio1)

Ant. 9~ 12 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n mode (2TX/2RX)(Radio2)

Ant. 13 and Ant. 14 could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)(Radio 3)

Ant. 15 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (8TX/8RX)(Radio 0)

Ant. 1~8 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)(Radio 0)

Ant. 1~4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac mode (2TX/2RX)(Radio 2)

Ant. 13 and Ant. 14 could transmit/receive simultaneously.

1.1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR950730AC

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

Modifications	Performance Checking
Model name: C-260 was added	N/A
Ethernet connection speed increases from 2.5Gbps to 5Gbps	The worst case of Output Power and Radiated Unwanted Emissions were evaluated, and the test result of original test report was found to be the worst case scenario.
LTE signal filter in WiFi 2.4GHz RX path changed	

1.2 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	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.			
<input type="checkbox"/>	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.			

————THE END————