

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 15.407

The product was received on Jun. 14, 2019, and testing was started from Jun. 14, 2019 and completed on Aug. 13, 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

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Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-

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
5150-5250	a, n (HT20), ac (VHT20),ax(HEW 20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40),ax(HEW 40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax(HEW 80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
5725-5850		5775	155 [1]

Radio 0_4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX

5.25-5.35GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX

Radio 0_8TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.25-5.35GHz	802.11a	20	8TX
5.47-5.725GHz	802.11a	20	8TX
5.725-5.85GHz	802.11a	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.25-5.35GHz	802.11ac VHT20	20	8TX
5.47-5.725GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.25-5.35GHz	802.11ac VHT40	40	8TX
5.47-5.725GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.25-5.35GHz	802.11ac VHT80	80	8TX
5.47-5.725GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.15-5.25GHz	802.11ac VHT80+80	80	4TX(Port 1/2/3/4)
5.25-5.35GHz	802.11ac VHT80+80	80	4TX(Port 5/6/7/8)
5.47-5.725GHz	802.11ac VHT80+80	160	8TX
5.15-5.25GHz	802.11ax HEW20	20	8TX
5.25-5.35GHz	802.11ax HEW20	20	8TX
5.47-5.725GHz	802.11ax HEW20	20	8TX
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.15-5.25GHz	802.11ax HEW40	40	8TX
5.25-5.35GHz	802.11ax HEW40	40	8TX

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW40	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.15-5.25GHz	802.11ax HEW80	80	8TX
5.25-5.35GHz	802.11ax HEW80	80	8TX
5.47-5.725GHz	802.11ax HEW80	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX
5.15-5.25GHz	802.11ax HEW80+80	80	4TX(Port 1/2/3/4)
5.25-5.35GHz	802.11ax HEW80+80	80	4TX(Port 5/6/7/8)
5.47-5.725GHz	802.11ax HEW80+80	160	8TX

Radio 2_2TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.

1.1.2 Table for 80+80 MHz Mode

Type	Channel No.	Frequency
13	42+58	5210+5290 MHz
14	106+122	5530+5610 MHz

1.1.3 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.

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR950730-01AN

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			
☒	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.			

—THE END—