

1 Cover Page

RF Exposure Evaluation Report

Application No.: KSEM2107001139CR
FCC ID: 2AD6I-SG-6000-A200W
Applicant: Hillstone Networks Corp.
Address of Applicant: 5201 Great America Pkwy, suite 420, Santa Clara, CA 95054
Manufacturer: Hillstone Networks Co., Ltd.
Address of Manufacturer: No.181, Jingrun Road, High-Tech Zone, Suzhou
Factory: Hillstone Networks Co., Ltd.
Address of Factory: No.181, Jingrun Road, High-Tech Zone, Suzhou
Equipment Under Test (EUT):
EUT Name: Firewall Appliance
Model No.: SG-6000-A200W
Add Model No.: SG-6000-A200W-IN, SG-6000-B600W, SG-6000-SDW300W, SG-6000-SDW500W
Standard(s) : FCC Rules 47 CFR §2.1091
Date of Receipt: 2021-07-14
Date of Test: 2021-07-16 to 2021-09-06
Date of Issue: 2021-09-06

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-06	/

Authorized for issue by:			
		<i>Damon Zhou</i>	

		Damon Zhou / Project Engineer	
		<i>Eric Lin</i>	

		Eric Lin / Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 12V by Adapter Adapter: Model: EA1019HVRS-120 AC Input: 100-240Vac, 0.8A, 50-60Hz DC Output: 12.0Vdc, 2.0A 24.0W
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3.2 Technical Specifications

2.4GHz

Antenna Gain:	Ant 1:4.85dBi (Provided by the manufacturer) Ant 2:4.85dBi (Provided by the manufacturer) Directional gain:7.86dBi
Antenna Type:	Dipole Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

5GHz

Operation Frequency	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz			
Antenna Gain:	Ant 1:4.66dBi (Provided by the manufacturer) Ant 2:4.66dBi (Provided by the manufacturer)			



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	Directional gain:7.67dBi
Antenna Type:	Dipole Antenna

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30



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5 Measurement and Calculation

5.1 Maximum transmit power

2.4GHz

The Power Data is based on the RF Test Report KSEM210700113901

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	MIMO Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]	MIMO Power[mW]
11B	2412	17.40	18.08	NA	54.95	64.27	N/A
11B	2437	17.27	16.84	NA	53.33	48.31	N/A
11B	2462	17.84	18.34	NA	60.81	68.23	N/A
11G	2412	18.29	18.29	NA	67.45	67.45	N/A
11G	2437	18.17	18.68	NA	65.61	73.79	N/A
11G	2462	18.27	18.04	NA	67.14	63.68	N/A
11N20MIMO	2412	14.45	14.30	17.39	27.86	26.92	54.83
11N20MIMO	2437	14.11	14.59	17.37	25.76	28.77	54.58
11N20MIMO	2462	14.04	14.93	17.52	25.35	31.12	56.49
11N40MIMO	2422	14.83	14.76	17.81	30.41	29.92	60.39
11N40MIMO	2437	14.49	14.94	17.73	28.12	31.19	59.29
11N40MIMO	2452	14.44	15.14	17.81	27.80	32.66	60.39



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5GHz

The Power Data is based on the RF Test Report KSEM210700113902

Test Mode	Test Channel	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	MIMO Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]	MIMO Power[mW]
802.11a	5180	14.32	13.92	N/A	27.04	24.66	N/A
	5200	14.55	14.23	N/A	28.51	26.49	N/A
	5240	15.06	14.63	N/A	32.06	29.04	N/A
	5745	14.52	14.31	N/A	28.31	26.98	N/A
	5785	14.21	13.98	N/A	26.36	25.00	N/A
	5825	14.28	13.68	N/A	26.79	23.33	N/A
802.11n(HT20)	5180	12.24	11.93	15.10	16.75	15.60	32.36
	5200	12.58	12.25	15.43	18.11	16.79	34.91
	5240	12.87	12.56	15.73	19.36	18.03	37.41
	5745	14.12	13.30	16.74	25.82	21.38	47.21
	5785	13.82	12.96	16.42	24.10	19.77	43.85
	5825	13.54	12.65	16.13	22.59	18.41	41.02
802.11n(HT40)	5190	13.16	12.99	16.09	20.70	19.91	40.64
	5230	13.55	13.39	16.48	22.65	21.83	44.46
	5755	12.53	12.20	15.38	17.91	16.60	34.51
	5795	12.70	12.05	15.40	18.62	16.03	34.67
802.11ac(VHT20)	5180	12.19	11.96	15.09	16.56	15.70	32.28
	5200	12.56	12.28	15.43	18.03	16.90	34.91
	5240	12.79	12.51	15.66	19.01	17.82	36.81
	5745	12.21	12.73	15.49	16.63	18.75	35.40
	5785	12.65	13.02	15.85	18.41	20.04	38.46
	5825	12.54	12.65	15.61	17.95	18.41	36.39
802.11ac(VHT40)	5190	13.24	11.98	15.67	21.09	15.78	36.90
	5230	12.66	13.27	15.99	18.45	21.23	39.72
	5755	12.63	13.19	15.93	18.32	20.84	39.17
	5795	12.70	12.96	15.84	18.62	19.77	38.37
802.11ac(VHT80)	5210	13.41	13.14	16.29	21.93	20.61	42.56
	5775	12.51	12.92	15.73	17.82	19.59	37.41



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5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm²

For 2.4G WiFi - Antenna1:

The max. antenna gain is		4.85	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
67.45	3.055	20	0.04099	1	Pass

For 2.4G WiFi - Antenna2:

The max. antenna gain is		4.85	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
68.23	3.055	20	0.04147	1	Pass

In MIMO mode:

The max. antenna gain is		7.86	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
60.39	6.109	20	0.07340	1	Pass



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For 5G WiFi - Antenna1:

The max. antenna gain is		4.66	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
32.06	2.924	20	0.01865	1	Pass

For 5G WiFi - Antenna2:

The max. antenna gain is		4.66	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
29.04	2.924	20	0.01689	1	Pass

In MIMO mode:

The max. antenna gain is		7.67	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
47.21	5.848	20	0.05492	1	Pass

The 2.4G WiFi&5G WiFi can simultaneous transmitting. But the maximum rate of MPE is = 0.07340/1 + 0.05492/1 = 0.12832 <= 1.

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--



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