

TEST REPORT



SongDam Certification Center

#708, Creation Hall, Yongin Songdam College,
61 Dongbu-ro, Cheoin, Yongin, Gyeonggi-do,
17145, Korea
Tel: +82-31-333-3220 Fax: +82-31-624-8855

Report No.:
SDCC-2020-00131
Page (1) / (18) pages



1. Applicant

Name KAON BROADBAND CO., LTD
Address KAONMEDIA Building, 884-3, Seongnamdaero-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea
Date of receipt June 6, 2020

2. Manufacturer

Name KAON BROADBAND CO., LTD
Address KAONMEDIA Building, 884-3, Seongnamdaero-ro, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea

3. Use of Report For Japan MIC Certification

4. Test sample / Model DOCSIS WIFI Gateway / CG3000

5. Date(s) of Test July 01, 2020 ~ August 10, 2020

6. Test Standard (Method) used Article 2, Paragraph 1 Item 19-3 / 19-3-2

7. Environment 23 °C, 49 %

8. Type of Device Master Device

8. Result Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Affirmation	Tested by:		Technical Manager:	
	Name: Jin Hee, Goo		Name: Ui Hyun, Ryu	

August 13, 2020

SongDam Certification Center

F-TP22-06 (Rev.00)



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Revision History of Report

Report No.	Version	Issued Date	Description
SDCC-2020-00131	Rev.00	August 10, 2020	Initial Issue
SDCC-2020-00131	Rev.01	August 13, 2020	Added test procedure

F-TP22-06 (Rev.00)



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1. GENERAL INFORMATION

1.1. Applicant & Manufacturer & Test Laboratory Information

1.1.1. Applicant Information

Applicant	KAON BROADBAND CO., LTD
Address	KAONMEDIA Building, 884-3, Seongnamdae-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

1.1.2. Manufacturer Information

Manufacturer	KAON BROADBAND CO., LTD
Address	KAONMEDIA Building, 884-3, Seongnamdae-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

1.1.3. Test Laboratory Information

Conducted tests were performed at	
Laboratory	SongDam Certification Center
Address	#601, Creation Hall, Yongin Songdam College, 61 Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17145, Korea
KOLAS No.	KT790
Telephone No.	+82-31-333-3220
Fax No.	+82-31-624-8855



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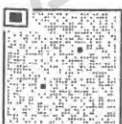
 <p>SongDam Certification Center #708, Creation Hall, Yongin Songdam College, 61 Dongbu-ro, Cheoin, Yongin, Gyeonggi-do, 17145, Korea Tel: +82-31-333-3220 Fax: +82-31-624-8855</p>	<p>Report No.: SDCC-2020-00131 Page (5) / (18) pages</p>	
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1.2. General Description of EUT

Product Name	DOCSIS WIFI Gateway
Model Name	CG3000
Operating Band	5150 MHz ~ 5250 MHz, 5230 MHz ~ 5350 MHz, 5470 MHz ~ 5730 MHz
Type of Modulation	256QAM, 64QAM, 16QAM, QPSK
TPC Function	Supporting
HW/SW Version	HW: Rev1.4 / SW: v1.02.12
Power Supply	DC 12 V
Antenna Type	Integral Antenna (U.FL Antenna)
Antenna Gain	2 dBi @ 5 GHz
Number of Antenna	4 (4T4R)

1.3. Specification of the Equipment under Test

Power Type	DC 12V from adapter
Operating Band	5150 MHz ~ 5250 MHz, 5230 MHz ~ 5350 MHz, 5470 MHz ~ 5730 MHz
Operating Mode : 802.11 / Data rate (mbps)	802.11a : Up to 54 Mbps 802.11n HT20 (MCS 0 ~31) 802.11n HT40 (MCS 0 ~31) 802.11ac VHT20 (MCS 0 ~9) 802.11ac VHT40 (MCS 0 ~9) 802.11ac VHT80 (MCS 0 ~9)



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1.4. Accessories

Equipment	Information
Adapter	Manufacturer: SHENZHEN FRECOM ELECTRONICS CO.,LTD. Model Name: F301-120250SPAU Input : 100~240 Vac, 50~60 Hz, 1.0 A Output: 12 Vdc, 2.5 A, 30.0 W

1.5. Antenna Details

Antenna No.	Model	Manufacturer	Connector	Antenna Gain (dBi)	
				2.4 GJz Band	5 GHz Band
1	N/A	KEITECH	IPEX	1.9	2.0
2	N/A	KEITECH	IPEX	1.9	2.0
3	N/A	KEITECH	IPEX	1.9	2.0
4	N/A	KEITECH	IPEX	1.9	2.0

1.6. Channel Loading / Data Streaming

Test transmission sequence is form the Master to the Slave.
For W53 Band (5250 MHz ~ 5350 MHz) Monitoring of operating channel with about 30 % loading
For W56 Band (5470 MHz ~ 5730 MHz) Monitoring of operating channel with about 17 % loading
No transmissions on channels being checked during a Channel Availability Check and Confirming Available Channels.

1.7. Test Standards

Article 2 Paragraph 1 Item 19-3

Article 2 Paragraph 1 Item 19-3-2

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1.8. DFS Parameters

Parameter	Value
Channel Availability Check Time	60 sec
Channel Move Time	10 sec
Channel Closing Transmission Time	260 ms
Non-occupancy period	Minimum 30 minutes

Note: the test was performed at worst case.

W53: DFS Parameters DFS radar test signal				
Radar Type	Pulse width [us]	Pulse repetition frequency [Hz]	Number of Pulse	Detection Probability (%)
1	0.5 ~ 5	200 ~ 1000	10	≥ 60
2	0.5 ~ 15	200 ~ 1600	15	≥ 60
3	0.5 ~ 5	200 ~ 1000	22	≥ 60
4	0.5 ~ 15	200 ~ 1600	22	≥ 60
5	0.5 ~ 15	1114 ~ 1118	30	≥ 60
6	0.5 ~ 15	928 ~ 932	25	≥ 60
7	0.5 ~ 15	886 ~ 890	24	≥ 60
8	0.5 ~ 15	738 ~ 742	20	≥ 60

W56: DFS Parameters DFS radar test signal				
Radar Type	Pulse width [us]	Pulse repetition frequency [Hz]	Number of Pulse	Detection Probability (%)
1	0.5	720	18	≥ 60
2	1	700	18	≥ 60
3	2	250	18	≥ 60
4	1 ~ 5	4347 ~ 6667	23 ~ 29	≥ 60
5	6 ~ 10	2000 ~ 5000	16 ~ 18	≥ 60
6	11 ~ 20	2000 ~ 5000	12 ~ 16	≥ 60
Aggregate (Radar Type 1 ~ 6)				≥ 80



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W56: Chirp Modulation parameters DFS radar test signal					
Radar Type	Pulse width [us]	Pulse repetition frequency [Hz]	Number of Pulse	Number of burst	Detection Probability (%)
7	50 ~ 100	500 ~1000	1 ~ 3	8 ~ 20	≥ 80

W56: Frequency Hopping Modulation parameters DFS radar test signal					
Radar Type	Pulse width [us]	Pulse repetition frequency [Hz]	Number of Pulse	Number of burst	Detection Probability (%)
8	1	3000	9	300	≥ 70

1.9. Master Threshold Level

DFS Threshold Level
DFS Threshold level : -62 dBm
<p>Note 1 : DFS Detection Threshold (dBm) = -64 + G (dBi) (-64 dBm) + (2 dBi) = -62 dBm</p> <p>Note 2 : maximum EIRP < 200 mW (23 dBm). DFS Detection Threshold Level is (-62 dBm) + G(ant) maximum EIRP ≥ 200 mW (23 dBm). DFS Detection Threshold Level is (-64 dBm) + G(ant)</p>



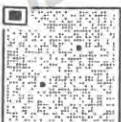
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2. TEST EQUIPMENT

All test equipment is calibrated by a calibration laboratory accredited to the requirements of ISO 17025.

Equipment	Model	Manufacturer	Serial No.	Calibration Date	Due Date
PXA SIGNAL ANALYZER	N9030A	KEYSIGHT	MY55410718	2019-10-23	2020-10-23
MXA SIGNAL ANALYZER	N9020A	KEYSIGHT	MY52090473	2019-10-23	2020-10-23
MXG ANALOG SIGNAL GENERATOR	N5183B	KEYSIGHT	MY53271390	2019-10-23	2020-10-23
EXG VECTOR SIGNAL GENERATOR	N5172B	KEYSIGHT	MY56200197	2019-10-23	2020-10-23
ETSI TEST SET	AD211	KEYSIGHT	TW5451144	2019-10-25	2020-10-25
ETSI TEST SET	AD211-ADAPTIVITY	KEYSIGHT	TW5451142	2019-10-25	2020-10-25
Slave Device	WN-AC1167GR	I-O DATA DEVICE, INC.	BBD0088916FN	-	-



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3. TEST RESULTS

3.1. Channel Availability Check

3.1.1. Test Procedure

MIC Notice No. 88 Appendix No.45, Clause 13 (5.3 GHz Band)

MIC Notice No. 88 Appendix No.45, Clause 14 (5.6 GHz Band)

3.1.2. Limit

The EUT shall perform a channel availability check to ensure that there is no radar operating on the channel.

After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

3.1.3. Test Result

Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 4)	Detection Probability (%)	Detection Probability Limit (%)
VHT20	5320	1-Variable	4	100	100
		2-Variable	4	100	100
		3-Chirp	4	100	100
		4-Chirp	4	100	100
		5-Chirp	4	100	100
		6-Chirp	4	100	100
		7-Chirp	4	100	100
		8-Chirp	4	100	100
VHT20	5500	1-Fixed	4	100	100
		2- Fixed	4	100	100
		3- Fixed	4	100	100
		4- Variable	4	100	100
		5- Variable	4	100	100
		6 Variable	4	100	100
		7-Chirp	4	100	100
		8-Hopping	4	100	100
Result		Pass			

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Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 4)	Detection Probability (%)	Detection Probability Limit (%)
VHT40	5310	1-Variable	4	100	100
		2-Variable	4	100	100
		3-Chirp	4	100	100
		4-Chirp	4	100	100
		5-Chirp	4	100	100
		6-Chirp	4	100	100
		7-Chirp	4	100	100
		8-Chirp	4	100	100
VHT40	5510	1-Fixed	4	100	100
		2- Fixed	4	100	100
		3- Fixed	4	100	100
		4- Variable	4	100	100
		5- Variable	4	100	100
		6 Variable	4	100	100
		7-Chirp	4	100	100
		8-Hopping	4	100	100
Result		Pass			

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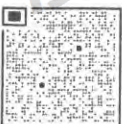


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Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 4)	Detection Probability (%)	Detection Probability Limit (%)
VHT80	5290	1-Variable	4	100	100
		2-Variable	4	100	100
		3-Chirp	4	100	100
		4-Chirp	4	100	100
		5-Chirp	4	100	100
		6-Chirp	4	100	100
		7-Chirp	4	100	100
		8-Chirp	4	100	100
VHT80	5530	1-Fixed	4	100	100
		2- Fixed	4	100	100
		3- Fixed	4	100	100
		4- Variable	4	100	100
		5- Variable	4	100	100
		6 Variable	4	100	100
		7-Chirp	4	100	100
		8-Hopping	4	100	100
Result		Pass			

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3.2. In-Service Monitoring

3.2.1. Test Procedure

MIC Notice No. 88 Appendix No.45, Clause 13 (5.3 GHz Band)

MIC Notice No. 88 Appendix No.45, Clause 14 (5.6 GHz Band)

3.2.2. Limit

The In-Service Monitoring shall be used to monitor to monitor an Operating Channel.

The In-Service Monitoring shall start immediately after the EUT has started transmission on a channel.

During the In-Service Monitoring, the EUT shall be capable of detecting any of the radar test signals that fall within the started transmissions ranges and with a level above the Radar Detection Threshold.

The minimum required detection probability is defied in clause 1.7 DFS Parameters.

3.2.3. Test Result

Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 20)	Detection Probability (%)	Detection Probability Limit (%)
VHT20	5320	1-Variable	20	100	60
		2-Variable	19	95	60
		3-Chirp	18	90	60
		4-Chirp	14	70	60
		5-Chirp	20	100	60
		6-Chirp	20	100	60
		7-Chirp	20	100	60
		8-Chirp	20	100	60
VHT20	5500	1-Fixed	20	100	60
		2- Fixed	19	95	60
		3- Fixed	19	95	60
		4- Variable	19	95	60
		5- Variable	19	95	60
		6 Variable	18	90	60
		7-Chirp	20	100	80
		8-Hopping	20	100	70
Result		Pass			

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Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 20)	Detection Probability (%)	Detection Probability Limit (%)
VHT40	5310	1-Variable	19	95	60
		2-Variable	20	100	60
		3-Chirp	20	100	60
		4-Chirp	17	85	60
		5-Chirp	20	100	60
		6-Chirp	20	100	60
		7-Chirp	20	100	60
		8-Chirp	20	100	60
VHT40	5510	1-Fixed	20	100	60
		2- Fixed	20	100	60
		3- Fixed	19	95	60
		4- Variable	19	95	60
		5- Variable	19	95	60
		6 Variable	19	95	60
		7-Chirp	20	100	80
		8-Hopping	20	100	70
Result		Pass			

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Detection Threshold Level (dBm) : -62					
Modulation Mode	Freq. (MHz)	Radar Test Signal	Nr of Times Triggered (#out of 20)	Detection Probability (%)	Detection Probability Limit (%)
VHT80	5290	1-Variable	20	100	60
		2-Variable	20	100	60
		3-Chirp	20	100	60
		4-Chirp	19	95	60
		5-Chirp	20	100	60
		6-Chirp	20	100	60
		7-Chirp	20	100	60
		8-Chirp	20	100	60
VHT80	5530	1-Fixed	20	100	60
		2- Fixed	20	100	60
		3- Fixed	19	95	60
		4- Variable	19	95	60
		5- Variable	20	100	60
		6 Variable	19	95	60
		7-Chirp	20	100	80
		8-Hopping	20	100	70
Result		Pass			

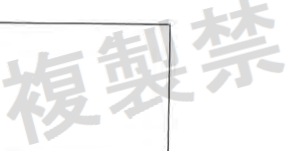
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3.3. Channel shutdown and Non-Occupancy Period

3.3.1. Test Procedure

MIC Notice No. 88 Appendix No.45, Clause 13 (5.3 GHz Band)

MIC Notice No. 88 Appendix No.45, Clause 14 (5.6 GHz Band)

3.3.2. Limit

Channel Move Time	10 sec
Channel Closing Transmission Time	260 ms in Channel Move Time 10 sec period.
Non-occupancy period	Minimum 30 minutes

3.3.3. Test Result

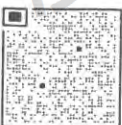
Channel Shutdown

Detection Threshold Level (dBm) : -62				
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time (ms)	Channel Move Time (s)
VHT20	5320	1-Variable	60.79	0.773
VHT20	5500	1-Fixed	111.26	0.828
VHT40	5310	1-Variable	126.51	0.898
VHT40	5510	1-Fixed	128.16	0.853
VHT80	5290	1-Variable	51.26	0.858
VHT80	5530	1-Fixed	86.26	0.893
Limit			260 ms	10 sec
Result			Pass	

Non-Occupancy Period

Detection Threshold Level (dBm) : -62			
Modulation Mode	Freq.(MHz)	Radar Test Signal	Non-Occupancy Period (min)
VHT80	5290	1-Variable	>30
VHT80	5530	1-Fixed	>30
Limit			30 min
Result			Pass

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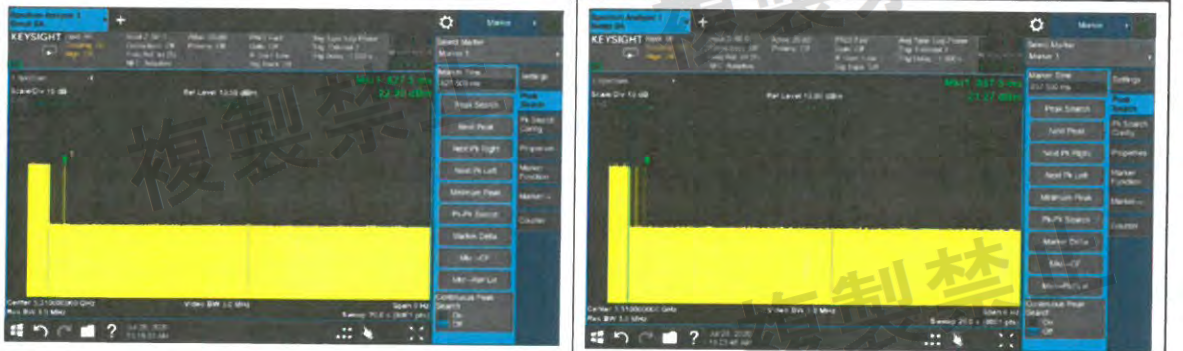
3.3.4. Test Plot

Channel Shutdown

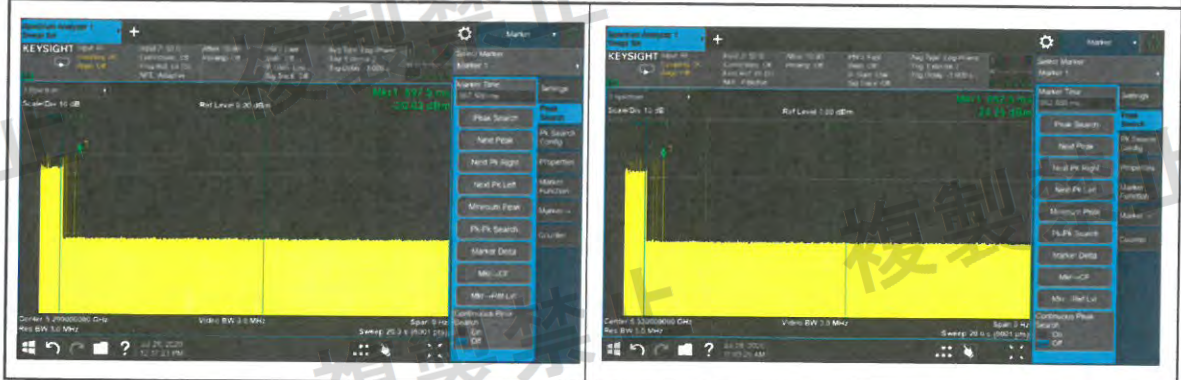
VHT20



VHT40



VHT80



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TEST REPORT



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Non-Occupancy Period

VHT80



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