

TEST REPORT DFS

FCC Standards : FCC 47CFR part 15 subpart E

Test Report No.	:	CTK-2016-00189	
Date of Issue	:	2016-02-18	
FCC ID	:	RTQLPT200AR	
Model/Type No.	:	LPT-200AR	
Kind of Product	:	Tablet PC	
Applicant	:	LG CNS CO.,LTD.	
Applicant Address	:	FKI Tower, 24, Yeoui-daero, Ye 07320	eongdeungpo-gu, Seoul, Korea,
Manufacturer	:	ART&CORE Inc	
Manufacturer Address	:	44 Burim-ro 170beon-gil, Dong Korea	gan-gu, Anyang-si, Gyeonggi-do
Factory #1	:	ARTVIEW CO., LTD.	
Factory Address	:	5F, 44, burim-ro 170beon-gil, Gyeonggi-do, Korea	Dongan-gu, Anyang-si,
Contact Person	:	Jae hee Lee	
Telephone	:	+82-2-2099-0167	
Received Date	:	2015-12-30	
Test period	:	Start : 2016-02-16	End : 2016-02-17

The test results presented in this report relate only to the object tested.

Tested by

Won-Jae, Hwang Test Engineer Date: 2016-02-18

Reviewed by

J. Park

Young-Joon, Park Technical Manager Date: 2016-02-18

Test Report No.: CTK-2016-00189 Date: 2016-02-18 Page 1 of 20

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REPORT REVISION HISTORY

Date	Revision	Page No
2016-02-18	Issued (CTK-2016-00189)	All

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1.0 General Product Description

Serial number Prototype EUT condition Pre-production, not damaged EUT condition UNII 1: 5180 MHz – 5240 MHz (20 MHz_BW) 5190 MHz – 5230 MHz (40 MHz_BW) Frequency Range UNII 2A: 5260 MHz – 5320 MHz (20 MHz_BW) 5270 MHz – 5310 MHz (40 MHz_BW) UNII 2C: 5500 MHZ – 5700 MHz (20 MHz_BW) 5510 MHz – 5670 MHz (20 MHz_BW) UNII 3: 5745 MHz – 5670 MHz (20 MHz_BW) 5755 MHz – 5670 MHz (40 MHz_BW) RF output power : Band Mode Bandwidth (MHz) Frequency Range (MHz) ANT1 (SISO) RF output power (dBm) UNII 1 802.11a 20 802.11a 20 5180 - 5240 UNII 1 802.11a 20 902.11a 20 5260 - 5320 UNII 20 5200 - 5300 UNII 802.11a 20 802.11a 20 5200 - 5300 UNII 802.11a 20 802.11a 20 5500 - 5700 UNII 802.11a 20 802.11a 20 5500 - 5700 UNII 802.11a 20 802.11a
EUT condition Pre-production, not damaged UNII 1: 5180 MHz - 5240 MHz (20 MHz_BW) 5190 MHz - 5230 MHz (40 MHz_BW) UNII 2A: 5260 MHz - 5320 MHz (20 MHz_BW) 5270 MHz - 5310 MHz (40 MHz_BW) UNII 2C: 5500 MHZ - 5700 MHz (20 MHz_BW) UNII 2C: 5500 MHZ - 5700 MHz (20 MHz_BW) UNII 3: 5745 MHz - 5825 MHz (20 MHz_BW) UNII 3: 5745 MHz - 5825 MHz (20 MHz_BW) UNII 3: 5745 MHz - 5825 MHz (20 MHz_BW) S755 MHz - 5795 MHz (40 MHz_BW) Range (MHz) Ref output (MHz) 802.11n 20 5180 - 5240 802.11n 20 5180 - 5230 802.11n 20 5260 - 5320 802.11n 20 5500 - 5700 802.11n 20 5500 - 5700 802.11n 20 5500 - 5700 <td< td=""></td<>
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UNII 802.11n 20 5500 - 5700 16.29 0 802.11n 20 5500 - 5700 16.29
UNII 20 5500 - 5700 16.29
802.11n 40 5510 - 5670 16.51
802.11a 20 5745 – 5825 16.10
UNII 3 802.11n 20 5745 – 5825 16.03
802.11n 40 5755 - 5795 16.12
Transfer Rate 802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 150 Mbps
Type of Modulation OEDM
Power Source DC 22 V
802.11a : 97.3 % Duty Cycle 802 11n HT20 · 97 3 %
802.11n_HT40 : 96.5 %
Antenna Type PCB antenna
Antenna Gain 4.1 dBi @2.4GHz, 5.9 dBi @5GHz
Master Device
DFS Mode of Operation Client Device (No radar detection)
Client Device With Radar Detection
Hardware Rev DS2 (2015-11-30)
Software Rev ALPS.L1.MP8.V2.7_ANC8127.SB.BRS.L1 (2015-12-15)
Eirmware Rev 0x0104

Test Report No.: CTK-2016-00189 Date: 2016-02-18

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1.1 Test mode

Test Item	Modulation	Data Rate
Channel Move Time	802.11a	6 Mbps
Channel Closing Transmission Time Client beacon test	802.11n_HT40	MCS 0

1.2 EUT Operation Test Setup

For WLAN function, the EUT was set to connect with the WLAN AP under Transmission.

1.3 EUT Exercise of Software

The EUT was operated in the nomal mode. The software is using the android system to internal memory.

1.4 Device Modifications

The following modifications were necessary for compliance:

Not applicable

1.5 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	LG Electronics.	LGE-DMLGS1 (B)	703KIUP015110
AC ADAPTER	Dongguang Lite Power 2nd Plant	PA-1900-08	-

1.6 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

1.7 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.



Laboratory Accreditations and Listings 1.8

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	FC
JAPAN	VCCI	VCCI V-3 EMI (Electromagnetic Interference / Emission)	C-986 T-1843 R-3627 G-387	VEI
KOREA	MSIP	EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity)	KR0025	

1.9 Scope

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection(DFS) as stated in KDB 905462 D02 v01r02 and Industry Canada RSS 247 specification. Testing was performed LPT-200AR in accordance with the measurement procedure described in Appendix B of FCC KDB 905462 D02 v01r02. As of July 20, 2007 all devices operating in the UNII 2A Band and/or the UNII 2C Bands must comply with the DFS requirements. AS the EUT does not have radar detection capability it was evaluated as a Client Only Device. All test results reports herein are applicable to the sample selected for testing. The unit used for testing was supplied by LG CNS CO., LTD.



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2 Summary of tests

Parameter	Limit	Status (note 1)		
Channel Move Time	10 seconds	С		
Channel Closing Transmission Time	200ms + aggregate of 60ms over remaining 10 second period	С		
Client beacon test	Monitored for 10 minutes with no client transmission	С		
<u>Note 1</u> : C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				



2.1 Description of Dynamic Frequency Selection Test

Requirement	Operational Mode			
	Master	Client Without Radar Detection	Client With Radar Detection	
Non-Occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

Additional requirements for devices	Master Device or Client	Client Without		
with multiple bandwidth modes	with Radar Detection	Radar Detection		
U-NII Detection Bandwidth and	All BW modes must be	Not required		
Statistical Performance Check	tested			
Channel Move Time and Channel	Test using widest BW mode	Test using the widest		
Closing Transmission Time	available	BW mode available		
for the link				
All other tests Any single BW mode Not required				
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include				
several frequencies within the radar detection bandwidth and frequencies near the edge of				
the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in				
each of the bonded 20 MHz channels and the channel center frequency.				



Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value		
	(See Notes 1, 2, and 3)		
$EIRP \ge 200 milliwatt$	-64 dBm		
EIRP < 200 milliwatt and	-62 dBm		
power spectral density < 10 dBm/MHz			
EIRP < 200 milliwatt that do not meet the power spectral	-64 dBm		
density requirement			
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.			
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test			
transmission waveforms to account for variations in measurement equipment. This will ensure that the			
test signal is at or above the detection threshold level to trigger a DFS response.			
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911			
D01.			

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over
	remaining 10 second
	period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See
	Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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		Tuble 5 Short I al							
Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum				
Туре	Width	(µsec)		Percentage of	Number				
	(µsec)			Successful	of				
				Detection	Trials				
0	1	1428	18	See Note 1	See Note				
					1				
1	1	Test A: 15 unique	$\left(\left(1 \right) \right)$	60%	30				
		PRI values	360						
		randomly selected	Roundun						
		from the list of 23	(19·10 ⁶)						
		PRI values in	PRI						
		Table 5a	(\ µsec /)						
		Test B: 15 unique							
		PRI values							
		randomly selected							
		within the range							
		of 518-3066 µsec,							
		with a minimum							
		increment of 1							
		µsec, excluding							
		PRI values							
		selected in Test A							
2	1-5	150-230	23-29	60%	30				
3	6-10	200-500	16-18	60%	30				
4	11-20	200-500	12-16	60%	30				
Aggregate	(Radar Types	1-4)		80%	120				
Note 1: She	ort Pulse Rada	ar Type 0 should be u	sed for the detection ba	ndwidth test, ch	annel move				
time, and channel closing time tests.									

Table 5 - Short Pulse Radar Test Waveforms

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30



2.2 Measuring Systematic diagram





2.3 Description of EUT

Overview Of EUT With Respect To §15.407 (H) Requirements

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz range.

The EUT is a Client Device that does not have radar detection capability.

The antenna assembly utilized with the EUT has a gain of 5.9 dBi.

The Slave device associated with the EUT during these tests does not have radar detection +capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20/40 MHz. The Master Device is a Samsung WEA463e 802.11a/b/g/n/ac WALN Access Point, FCC ID: A3LWEA463E.

The rated output power of the Master unit is < 23dBm (EIRP). Therefore the required interference threshold level is -62 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -62 + 5 = -57dBm. The calibrated conducted DFS Detection Threshold level is set to -57 dBm. The tested level is lower than the required level hence it provides margin to the limit.



2.4 Test Results

2.4.1 Test Channel

All test were performed at a channel center frequency of 5500 MHz for 20 MHz Bandwidth. All test were performed at a channel center frequency of 5510 MHz for 40 MHz Bandwidth.

2.4.2 Radar waveform and Traffic



Radar Waveform (20 MHz)



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₽ Spectrum . RBW 1 MHz Ref Level 0.00 dBm 10 dB - SWT 200 ms - VBW 1 MHz Att SGL ●1Rm Clrw -10 dBm--20 dBm -30 dBm-40 dBm--50 dBm -60 dBm-D1 -64.000 dBm--70 dBm -80 dBm--90 dBm-CF 5.51 GHz 691 pts 20.0 ms/ 6.02.2016 Ready 1.30 // Date: 16.FEB.2016 19:28:50

Radar Waveform (40 MHz)



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Traffic (40 MHz)





2.4.3 Channel move time and Channel closing Transmission time

REPORTING NOTES

The reference marker is set at the end of last radar pulse. The delta marker is set at the end of the last WLAN transmission following the radar pulse. Thisdelta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated Begins at (Reference Marker + 200 msec) and Ends no earlier than (Reference Marker + 10 sec).



Test Results

<bandwidth 20="" mhz="" mode=""></bandwidth>						
Channel Move Time (sec)	Limit (sec)					
0.0099	10					
Channel Closing Transmission Time (msec)	Limit (msec)					
0	260					

Channel Move Time and Channel closing Transmission time(20 MHz BW)



Channel Closing Transmission Time calculated	Test results
[S] Sweep time (sec)	0.2
[B] Sampling bins	691
[N] Number of sampling bins in 10	0
[C] Closing Transmission Time (msec)	0

Note : Dwell = S/BC = N * DwellClosing Transmission Time[C] = 0 * (0.2/691)



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<bandwidth 40="" mhz="" mode=""></bandwidth>						
Channel Move Time (sec)	Limit (sec)					
0.075	10					
Channel Closing Transmission Time (msec)	Limit (msec)					
0.0020						

Channel Move Time and Channel closing Transmission time(40 MHz BW)



Channel Closing Transmission Time calculated	Test results
[S] Sweep time (sec)	0.2
[B] Sampling bins	691
[N] Number of sampling bins in 10	13
[C] Closing Transmission Time (msec)	0.0038

Note : Dwell = S/B C = N * Dwell Closing Transmission Time[C] = 13 * (0.2/691)

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2.4.4 **Client beacon test**



Monitoring live spectrum - Elapse time 10 minutes (20 MHz BW)

Monitoring live spectrum – Elapse time 10 minutes (40 MHz BW)

1Pm Clow						
				M1[1]		-47.87 dBn 51.13
-10 dBm		1				
-20 dBm						
-30 dBm				_	-	
-40 dBm				_	-	
-50 dBm					-	
-60 dBm						
-70 dBm						
-80 dBm				_		
-90 dBm						
		601	Inte			72.0.¢/



APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Generator	Rohde & Schwarz	SMB100A	175528	2016-01-20	2017-01-20
2	Signal Generator	Rohde & Schwarz	SMBV100A	258008	2015-05-13	2016-05-13
3	Combiner/Divider	Weinschel	1580-1	PE428	2015-11-03	2016-11-03
4	DUAL DIRECTIONAL COUPLER	HP	11692D	1212A03629	2015-11-23	2016-11-23
5	SPECTRUM ANALYZER	Rohde & Schwarz	FSV	101198	2015-07-16	2016-07-15