The First Partner



Power Control User Manual



2011. 10. 04







✓ Remote Download Wireless Adaptor

제 하드웨어 감옥 마염자						
29	새 하드웨어 검색 마법사 시작					
	Windows에서는 사용자의 컴퓨터, 하드웨이 성치 (D 및 Windows Update 웹 사이스를 확인하게 입니미드한 최신 소프트웨어를 임색합니다(사용자가 허용하는 경우),					
	<u>개인 경보 보호 전책 위기</u>					
	Windows Update을 위험하여 소프트웨어를 검색하시겠습니까?					
	C N. 019191 918(V)					
	O 폐, 왕치를 연결할 때마다 연결(E)					
	에 마니오, 지금 면결 안 합(I)					
	NAMES OF BRIDE DATES					
	가루아리한 (다음)는 한국아입지도.					
	< <u>티코(b)</u> 다음(<u>M</u>)> 취소					
세 하드웨어 검색 마법사						
	\sim					
20						
	THE PERSON AND A PERSON PERSON AND A REPORT ADDRESS OF THE WAY I					
	이 바랍지는 다음 하드웨이에 대한 오프트웨어 실지를 도와합니 다.					
	Broadcom 802, Hn 무선 USE 대행터					
	🥝 - 하늘께비에 포함함 성자 CD 또는 블로리 디스크가 필요면 지금 집합하십시오.					
	못하는 작업을 거택하십시오.					
	이 사고도에서 고등으로 선회(귀조)(I)					
	@ 독립 또는 비장 위치에서 감치(고급)(요)					
	测察外程序 [[]接]接 使复杂的人名					
	(別豆(肌) 日暮(別)> 취소					



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- ✓ To install driver
 "Broadcom 802.11n Wireless USB Adaptor"
- Start Run "services.msc"
 "Wireless Zero Configuration" function is stop.









Broadcom 802,11n 무션 USB 마맘터 #4 등록 정보	? ×
일반 [고급 드라이버 자세히] 전원 판리]	
Broadcom 802,11n 무선 USB 어렵터 #4	
드라이버 공급자: Broadcom 드라이버 날짜:	
드라이버 버전: 5,102,98,12 디지털 사망자: 디지털 사양되지 않음	
[[드라이버 정보(D)]] 드라이버 파일에 대한 세부 정보를 표/	시합니다.
드라이버 업데이트(P) 이 장치용 드라이버를 업데이트합니다	
드라이버 롤백(B) 드라이버를 업데이트한 후에 장치가 주 마 이전에 설치한 드라이버로 롤랙합니	ໄ동하지 않 I다.
제가(U) 드라이버 설치를 제거합니다(고급).	
파인	취소

✓ Driver Version : 5.102.98.12

When the driver installed completely, please right-click the adaptor again and select "Properties" to setup following items;

- ✓ 40MHz Intolerant : Disabled
- ✓ Bandwidth Capability : 11a/b/g:20/40MHz
- ✓ Power Save mode : Disabled
- ✓ IBSS 54g(tm) Protection Mode : Disabled
- ✓ IBSS Link Indication : Legacy
- ✓ IBSS Mode : 802.11 a/b/g/n Auto
- ✓ IBSS Allowed : Enabled



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Broadcom 8 General Ad The followin the property on the right Property 20/40 Cee 40/41 a for 802 11 he Alterburne Anterna D AP Compa Bandwidh Bixetooth (BSS PLCP Disable Ba	02.11n Win vanced Drive g properties and you want to ch videoce cleant iversity toility Mode n Roam Prefere mence Capability Caleboration 'Header nds	eless USB A r Details s available for the lange on the lef	dapter #3 Pro is network adapte I, and then select Value: Disabled	erties ? 🗙
			ОК	Cancel





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Keep all the other settings as default.

Unplug and Plug module once to make sure the initialization is done properly.

🕚 LG Innotek

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✓ vcredist_x86.exe for VC++ run time library

✓ IQfact v1.1.exe for Matlab Runtime Library

✓ Start ->Control Panel -> System ->Advanced->Environment Variables

To select Path from System Variable and edit it (push Edit button) To add two directories for Matlab runti me library

C:\Program Files\MATLAB\MATLAB Component Runtime\v76\runtime\win32

C:₩Program Files₩MATLAB₩MATLAB Component Runtime₩v76₩bin₩win32

시스캡 등록 정보	7 ×	환경 변수	? X
일반 [컴퓨터 메를 하드웨어 고급] 시스템 색임 [자동 업데이트] 임격 미 배종과 변경하려면 관리자로 로그분했다 합니다. 영웅 - 시각 호과, 프로세서 일정, 메모리 사용 및 가상 메모리 		- 당현대에 대한 사용자 변수(U) 보수 값 PATH C:\#Program Files\#ESTsot\#ALZip\ TEMP C:\#Documents and Settings\#정현태\\ TMP C:\#Documents and Settings\#정현태\\	
- 사용자 프로핑 사용자 로그운데 관련된 비장 최면 설정 설정(E)		새로 만들거(법) 편집(E) 삭제(D) 시스템 변수(요) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<	
· 사학 및 역구 · 시스템 사학: 시스템 오류 및 디너릭 학보 		OS PADS_PROGRAMS_Programs PADS_PROGRAMS_Programs CWMMemorGraphicsW2UUP205w5805.8 PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS CWM.EXE.BAT; CMD; VES; VES_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS CWM.EXE.BAT; CMD; VES; VES_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS PADS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROGRAMS_PROG	
환경 받수(8) 오류 보고(8) 확인 취소 진유)	31	세로 만들기(높) 편집() 삭제() 확인 취소	



Internal Use Only

- \checkmark Copy the Duck folder.
- ✓ Perform "Duck1.1.9.exe"

Durk 1,1,8
ed: way: Dat Vettrags Isagnar vettrag BROADCOM: Resultieps Informer twensprent Calander
[bod_11]_0_af//Ca122TFerc.prov/26_fast_prove_/or125_a1_put_for_jop.tet [D209825] [522] Dandeleth 117-20 editand new Channel O112412 rate CT0F 54 Artical Acta actives Phone at SXLa.
155: Societish H120 soblased none Classed OF 252 rate OFM 51 4423 4421 policier Pitter 51 32 Etc. Bandach (1-2) address none Channel OF 2440 miles Chan 54 with policies Pitting at 55 [55: Societish H120 soblased none Channel OFC 257 via DFD4 54 Address Address Pitting at 54 [55: Societish H120 soblased none Channel OFC 242 via DFD4 54 and all tight Hoting of 54 [55: Societish H120 address of none Channel OFC 242 via DFD4 54 and all tight Hoting of 54 [55: Societish H120 address of none Channel OFC 242 via DFD4 54 and all tight Hoting of 54 [55: Societish H120 address of none Channel OFC 242 via DFD4 54 and all tight Hoting of 54 [55: Societish H120 address of none Channel OFC 242 via DFD4 54 and all tight H120 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 54 and all tight H120 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 54 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 54 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 54 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 55 address of none [55: Societish H120 address of none Channel OFC 242 via DFD4 55 address of none [55: Societish H120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish H120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish H120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish H120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish 120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish 120 address of none Channel OFC 255 via DFD4 55 address of none [55: Societish 120 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 address of none Channel OFC 255 via DFD4 55 add
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Same Some



3. Duck Menu

A Duck 1, 1, 9	
5 BandWidth sideband Band Preq Antenna Rate type Data rate still HT-20 × hone ¥ 26 band ¥ CHI 2412 ¥ Anto ¥ OPOM ¥ 6 ¥ SIS nphy_AntSel Country Interferenc Select Dut 0x01 ¥ ALL 0 ¥ Dut_0 ¥ Trensmit packet type 2 power ctrl mode power index power step A Start Transmit. Stop Tr Plotting ¥ dose_kcop ¥ 60 4 ¥ £ Cart Transmit. Stop Tr RX counters rxdfmocest = 29 rxdedfes = 0 Reset Counters	node i0 💌
Insert DUT Re-Program DUT Remove D Measuremet TxqRx	л
rxbadpitp 1835 rxorsglitch 94549 rxstrt 26069 rxdfimucastmbes 0 rxmfimucast 0 rxdfimucast 0 rxntsucast 0 rxdsucast 0 rxdsucast 0 rxdfimucast 29 rxmfimucast 284 rxdfimucast 304 rxmtsocast 0 rxdsocast 0 rxdfimucast 00 rxmfimucast 2556 rxofimucast 33 rxbeaconmbes 0 rxdfimucastobes 0 rxbeaconobes 345 rxrsptmout 2052272 bentxcand 0 rxf0ovf10 rxf1ovf10 rxf2ovf10 txsfovf10 pmgovf10 txcgprsfal 0 txcgprsuc 0 prs_timeout 0 rxprsqovf10 txcgprsfal 0 txcgprsuc 0 prs_timeout 0 rxprsqovf10 txcgprsfal 0 txcgprsuc 0 txchannej 0 rxtmbps 0 rx2mbps 0 rx5mbps 5 0 rx5mbps 0 rx8mbps 0 rx5mbps 5 0 rx5mbps 0 rx8mbps 0 rx5mbps 0 rx36mbps 0 rx8mbps 0 rx5mbps 0 rx36mbps 0 rx8mbps 0 rx5mbps 0 rx56mbps 0 rx8mbps 0 rx5mbps 0 txmpdu_sgl 0 txmpdu_stbc 0 rxmpdu_stbc 0 down sup sup output: 0	1
Run Stop Ca	noel

- 1. Packet type : ttcp, PktEng
 - → PktEng
- 2. Power ctrl mode : open_loop, close_loop

\rightarrow close_loop

- 3. Power index
 - → 2 step =0.5dB, 4 step =1.0dB
 - ex) 60/4=15dB, 52/4=13dB
 - 2 step (0.5dB)
- 4. Power step
 - \rightarrow 2 or 4 step
- 5. Bandwidth
 - → HT20 : 802.11 a,b,g,n(HT20)
 - → HT40 : 802.11n(HT40)
- 6. Band
 - \rightarrow 2G Band
- 7. Freq.
 - → Test Frequency
- 8. Antenna
 - → Ant0, Ant1



Internal

Use Only

3. Duck Menu

🗛 Duck 1, 1, 9	
BandWidth sideband Band Preq Antenna Rate type HT-20 V none V 2G band V CH1 2412 V Anto V OPDM V nphy_AntSel Country Interferenc Select Dut 0x01 V AU. 0 V Dut_0 V CTrement	Deta rate stf mode
packet type power ctrl mode power index power step x Picting Image: dose_loop 60 4 Image: dose_loop 2000	t Transmit: Stop Transmit
RX counters rxdfmocast = 29 rxdadfcs = 0 rxdfmmcast = 0	Counters
Insert DUT Re-Program DUT	Remove DUT
rxbadpicp 1835 rxorsglitch 94549 rxstrt 26069 rxdfmucastmbes 0 rxmfmucastmbes 0 rxdfmucast 0 rartsucast 0 rxdsucast 0 rxmfmucast 0 rxdfmucast 29 rxmfmucast 264 rxdfmucast 304 rxtsocast 0 rxdfmucast 29 rxmfmucast 2556 rxefmmcast 33 rxbeacombes 0 irxdfmucastobes 0 rxbeacombes 345 rxefmmcast 33 rxbeacombes 0 irxdfmucastobes 0 rxbeacombes 345 rxeptmout 2362272 bentxcand 0 rxf0xvf10 rxf1xvf10 rxf2xvf10 txsfovf10 pmqxvf10 txgprsfal 0 txgprssuc 0 prs_timeout 0 rxxack 0 fmscore 0 bmack 0 txglitch_nack 0 bxburst 0 txphyenor 0 txchanrej 0 rx12mbps 0 rx3mbps 0 rx5mbps5 0 rx36mbps 0 rx48mbps 0 rx5mbps 0 rx36mbps 0 rx48mbps 0 rx5mbps 0 pktengraducast 0 pktengrxdmcast 0 txmpdu_sgl 0 rxmpdu_sgl 0 txmpdu_stbc 0 rxmpdu_stbc 0 down sup	*
Run Stop	Cancel

9. Rate type & 10. Datarate

(mode Datarate)

- → CCK : 11b (1, 2, 5.5, 11Mbps)
- → OFDM : 11g, 11a
- (6, 9, 12, 18, 24, 36, 48, 54Mbps)
- → MCS: 11n (MCS0, 1, 2, 3, 4, 5, 6, 7)

Index	HT20	HT40
MCS0	6.5	13.5
MCS1	13	27
MCS2	19.5	40.5
MCS3	26	54
MCS4	39	81
MCS5	52	108
MCS6	58.5	121.5
MCS7	65	135

11. Stf mode : SISO, CDD



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Internal

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4. Example

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11b, 2412MHz ,1Mbps ANT0 15dBm setting.



TX Test

Insert WiFi module WL Command "wl phy_watchdog 0" Mode. ANT, Datarate

Insert DUT → Start Transmit

WL Command wl channel wl rate



→ Check current Channel & Datarate



4. Example

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11g, 2462MHz ,6Mbps ANT0 11dBm

🏭 Duck 1,1,9	
BendWidth sideband Band Freq. Antenna Rate (3)28 Beinstyle stif mo HT-20 Inone 26 band CH11 2462 Anto CPDM 6 9 5190 nphy_AntSel Country Interference Select Dut Select Dut Select Dut 0x01 ALL 0 V Dut_0 V Transmit padiet type power ctrl mode power index stifer step A PitEng Idose_loop H4 Z V Stop Transmit	2 step (0.5dB)
RX counters rxdfmmcast = 0 rxdadfos = 0 rxdfmmcast = 0 Reset Counters	
Neesuremet Tx/Rx	
kspwr1 - ο -q.60 kspwr1 - ο -q.60 dsassoc Stat_PML_Eng_Sending_PM, command: pkteng_start_00:90:4c:21:00:8e to 100.1024.0 pkteng_start_00:90:4c:21:00:8e to 100.1024.0 kspwr1 - ο -q.58 kspwr1 - ο -q.56 kspwr1 - ο -q.54 kspwr1 - ο -q.54 kspwr1 - ο -q.50 kspwr1 - ο -q.50	
tapori - o-q 46 tapori - o-q 46 tapori - o-q 42 tapori - o-q 42 tapori - o-q 30 tapori - o-q 30 tapori - o-q 40 tapori - o-q 44	
Run Blop Gens	



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4. Example

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11n(2G), HT40, 2422MHz, MCS0 ANT0 15dBm

🍰 Duck 1,1,9	×
BendWith sideband Bend Freq. Antenna Rate typ8 Detectate stf mode HT-10 upper 25 band CH5 2432 Anto MCS MCS MCS SISO nphy_AntSel Country Interferenc Select Dut Select Dut Dx01 ALL D Dut 0 C Transmit country index power index power step c	
PicEng Control Go F Start Trensmit Stap Trensmit	
RX counters rxdfmocast = 0 rxdfmmcast = 0 Reset Counters	
Insert BUT Re-Program DUT Remove DUT	
Measurement Tx/Rx chanspec Sbu chanspec Sbu output: Chanspec set to Dx2e00 up nrate mD = 0 pin Chi_Page_41 imode adhoc ski ski ski output: Current SSD: "Chi_Page_41" rate output: 13.5 Mbps down antdr/ 0 up trant 0 nphy_forecal 1 tays = i = 0.60 tays = i = 0.00 disasse: Start_Pit_Eng_Sending_Fit, command: pitteng_start_00:90:40:21:00:0e tx 100:1024.0	
Run Stop Gentel	-

HT40 setting Sideband : upper, CH5 2432MHz Minus 10MHz 2422MHz is center frequency.

C:WDuck_1_1_8_all>wl channel No scan in progress. current mac channel 3 target channel 3

C:WDuck_1_1_8_all>wl rate 13.5 Mbps





Appendix

S/W

1) Windows Utility

Execute the released windows utility installer.

(1) Run RaUI.exe



< Fig1.1 RaUI icon>

(2) RaUI can co-exist with WZC. When coexisting with WZC, RaUI only provides monitoring functions, such as surveying the link status, network status, static counters, advanced features status, WMM status and WPS status.

Launch Config Utilities	Launch Config Utilities
Use Zero Configuration as Configuration utility	Use RaConfig as Configuration utility
Exit	Exit

< Fig1.2 Select WZC and RaUI>





(3) When starting RaUI, the system will connect to the AP with best signal strength without setting a profile or matching a profile setting. It will issue a scan command to a wireless NIC. After two seconds, the AP list will be updated with the results of a BSS list scan.

Ralink)(i) ? X	7	Site Si	urvey			×
SSID Rate Channel	AP1 13.5 Mbps → IP Address 7 (2442 MHz) → Mask	192.168.2.101 255.255.255.0	issue63 _catch_me_if_you SoftAP-51 gg Claude0 iverson	1 1 1 1 1 1 1	090 090 090		70% 76% 76% 60% 55% 24%	•
anti 📀	Link Information	×	pega2 dlink 001601D314B4_G	2 3 5 6	09 09 09	() [39% 100% 44% 50%	
Status Extra Info Authentication Encryption Network Type	AP1 <> 00-0E-2E-E1-98-2D Link is Up [Tx Power:100%] WPA2-P5K AE5 Infrastructure		Baron_Test 160 f-roaming2 RT305x_AP_BFu Stitch			19 19	99% 55% 50% 96% 100%	~
Central Channel	5		AP Information SSID issue63 MAC Address 00-22-80-80-	A 3C-BF E	uthentication V ncryption A	VPA2-I ES	рак 🤇	2)

< Fig1.3 RaUI section introduction>

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* Please refer to the help page in detail usage manual.

2) Linux Device Driver Before compiling the driver, you should change make file or makefile.inc to meet your target platform.

* Please refer to the release note in detail.

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This equipment has been tested and found to comply with the limits for a Class B digital device,

pursuant to Part 15 of the FCC Rules. These limits aredesigned to

provide reasonable protection against harmful interference in aresidential installation. This equipment generates, uses and can radiate radiofrequency energy and,

if not installed and used in accordance with the instructions,

may cause harmful interference to radio communications. However,

there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on,

the user isencouraged to try to correct the interference by one or more of the following

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may notcause harmful interference, and
- (2) this device must accept any interference received,

including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum 20 cm between the radiator and your body.

IC Warning This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio

exempts de licence.L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Remark

■This radio can not be installed in host where co-located or operating in conjunction with any other antenna or transmitter.

■Wi-Fi label is written at the end of the LG Electronics Inc TV.

Wi-Fi module is used for LG Electronics Inc digital tv to use an Internet search.



For label requirement when transmitter module is installed in a host, the host shall have an additional permanent label referring to the enclosed module "Contains Transmitter Module FCC ID: BEJTWFML302D IC:2703H-TWFML302D"

