

Regulatory WiFi Antenna Information (Template)

(English Language Required for Intel Regulatory Review / Approval)

(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.

Remove Intel references and make this your own document)

Manufacturer: Advanced Wireless & Antenna INC.

Address: Basement 2, No. 207-1, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan

Platform information								
Brand	ODM	Platform model name	Platform type (ex: regular NB, convertible PC, AIO...etc)			SAR minimum separation (mm)		
Clover	Quanta	YJ7	POS			N/A		
Antenna information						Peak gain w/o cable loss (dBi)		
Vendor	Type	Antenna Part number (LTE)			2450MHz	5150MHz	5500MHz	5850MHz
AWA	LOOP	DQ60ALF0005			2	2.28	1.13	-0.91
Module information (Pls check with "x" when applies)								
Model	Form factor and suffixes							
7265 (StP 2)	NGW	D2W			17265NGW (Maple Peak)			
	AN	NB	BN					
3165 (StP 1)	NGW							
7260 (WP 2)	NGW	HMW	SDW					
	AN	NB	BN					
3160 (WP 1)	NGW	HMW	SDW					
Intel Reference Gain/Type/ Separation distance								
Antenna Type	Antenna Peak gain (In dBi)				Distance to the end user (mm)			
	2450MHz	5150MHz	5500MHz	5850MHz				
LOOP	2	1.72	2	1.28	>8 (generic sku) >5 (low power sku)			
Notes (marked with •)								
• SAR minimum separation (mm)								
- Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device)								
- Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)								

Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. (S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	Required (Photos)	Required (Photos)
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

Antenna Information

Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
P/N: DQ60ALF0005	SAA	LOOP TYPE	N/A	N/A	2400-2500MHz 2 dBi (peak)	N/A	N/A
				N/A	5150MHz 2.28 dBi (peak)	N/A	N/A
				N/A	5500MHz 1.13 dBi (peak)	N/A	N/A
				N/A	5850MHz -0.91 dBi (peak)	N/A	N/A

- Antenna Peak Gain required being test in system basis.
- 1F frame contend absolutely peak antenna gain include total

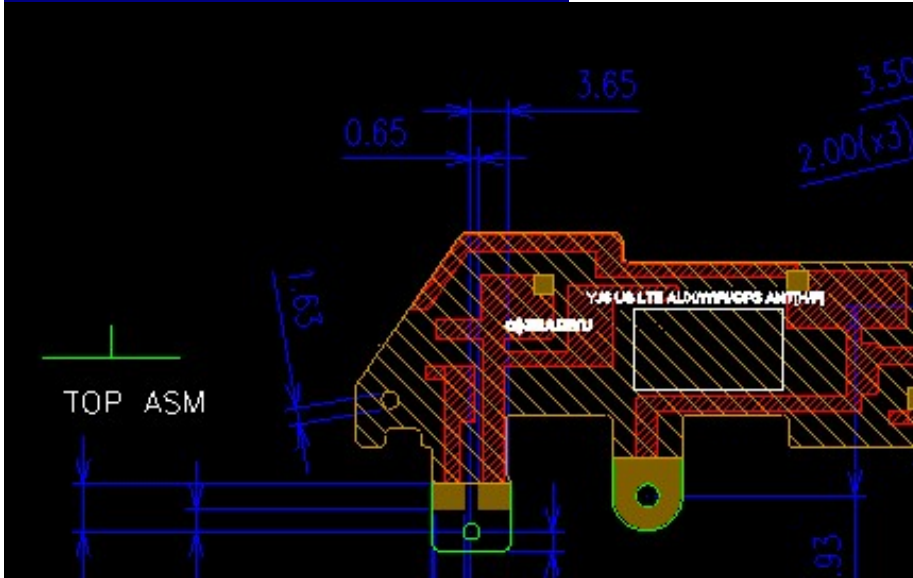
Antenna Peak Gain Table:

	WiFi Antenna		
Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)	Total (dBi)
2400	0.91	-5.73	1.72
2450	1.28	-5.01	2
2500	0.47	-4.86	1.28
5150	-1.29	2.14	2.28
5500	-3.52	0.91	1.13
5850	-4.91	-1.02	-0.19

Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of LTE main antenna here.

Main Antenna Dimensioned Drawing:



Main Antenna Photo:

Main (Front)



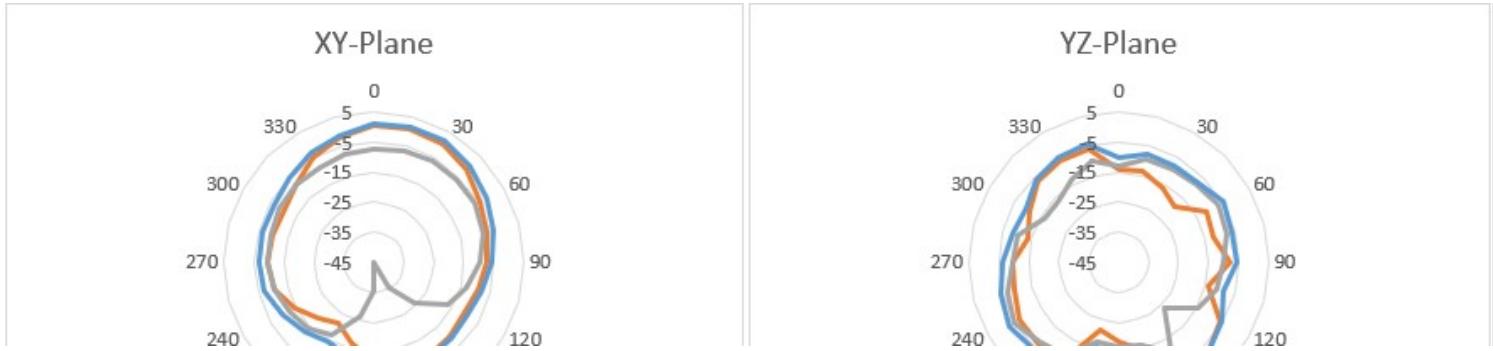
Main (Back)



Section 3. Radiation characteristics of antennae Loaded in Host Platform

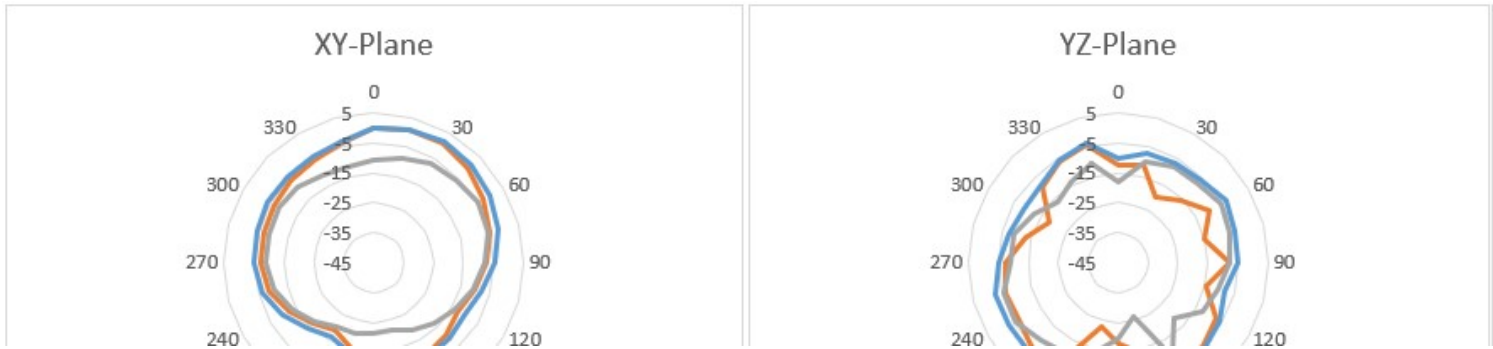
2400-2500 MHz radiation characteristic

WiFi antenna: 2400 MHz



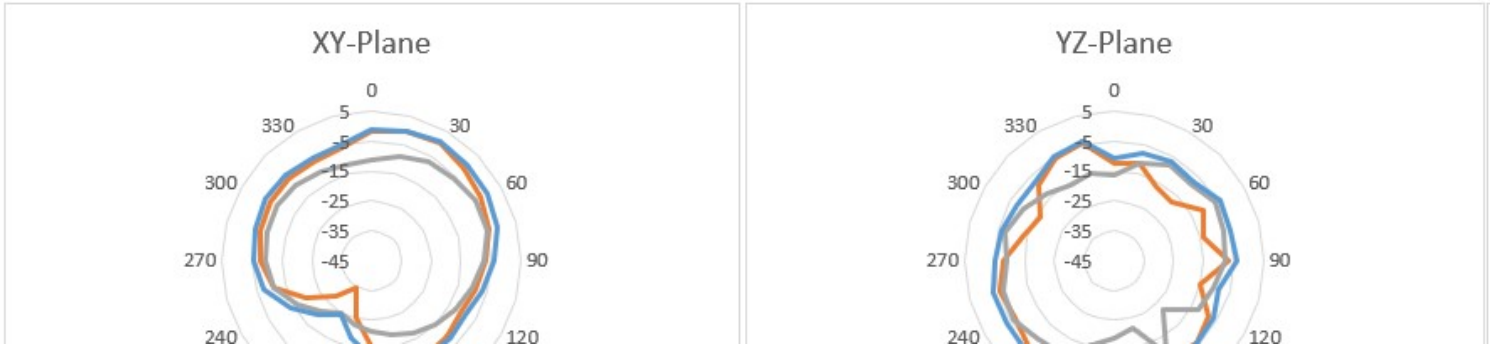
Center Frequency	2400 MHz
Horizontal (dBi) peak	0.91
Vertical (dBi) peak	-5.73
Total (dBi) peak	1.72

WiFi antenna: 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	1.28
Vertical (dBi) peak	-5.01
Total (dBi) peak	2

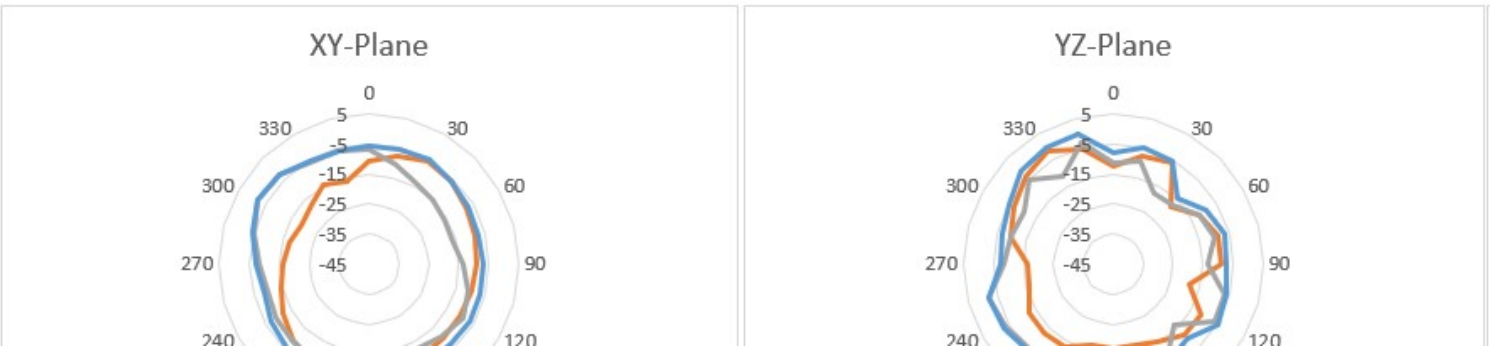
WiFi antenna: 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	0.47
Vertical (dBi) peak	-4.86
Total (dBi) peak	1.28

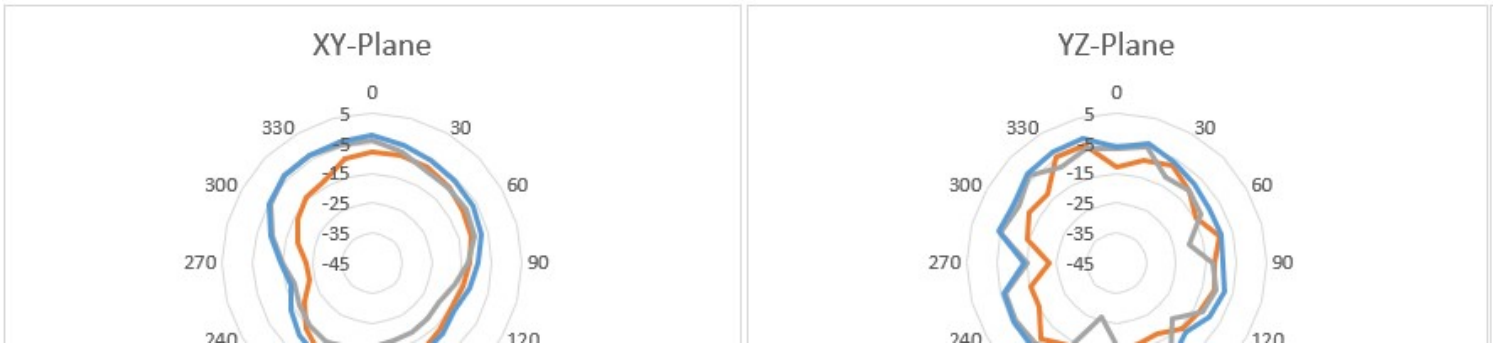
5150-5850 MHz radiation characteristic

WiFi antenna: 5150 MHz



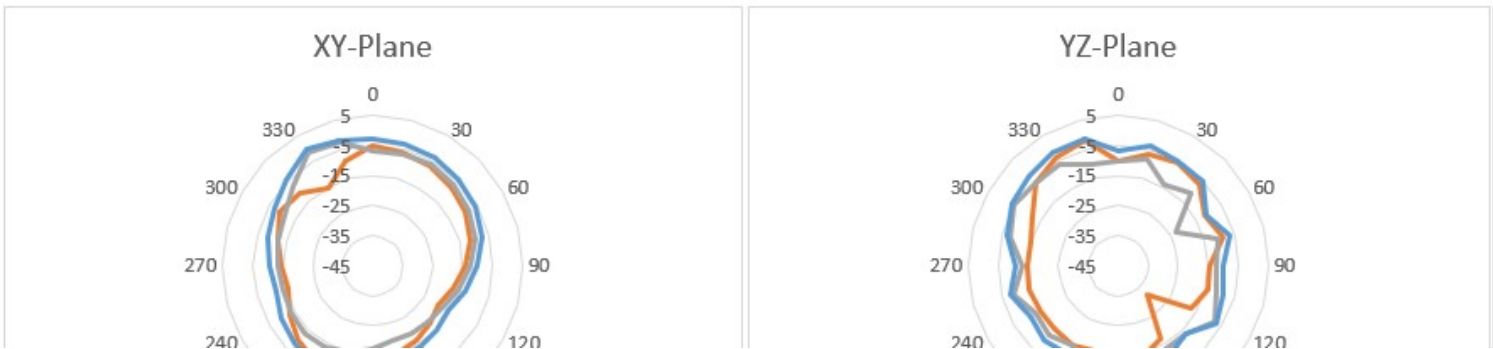
Center Frequency	5150 MHz
Horizontal (dBi) peak	-1.29
Vertical (dBi) peak	2.14
Total (dBi) peak	2.28

WiFi antenna: 5500 MHz



Center Frequency	5500 MHz
Horizontal (dBi) peak	-3.52
Vertical (dBi) peak	0.91
Total (dBi) peak	1.13

WiFi antenna: 5850 MHz



Center Frequency	5850 MHz
Horizontal (dBi) peak	-4.91
Vertical (dBi) peak	-1.02
Total (dBi) peak	-0.91

Section 4. Host Platform Information

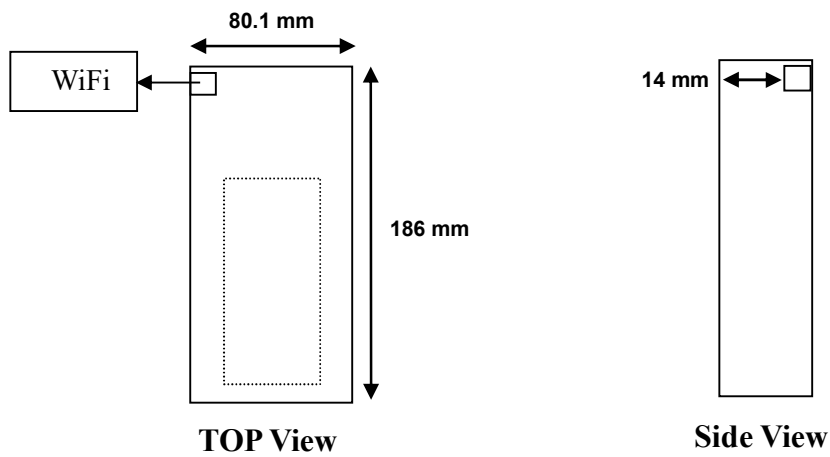
OEM / ODM Host platform: (YJ6) platform correlated to antenna data

Rating Label Photo:



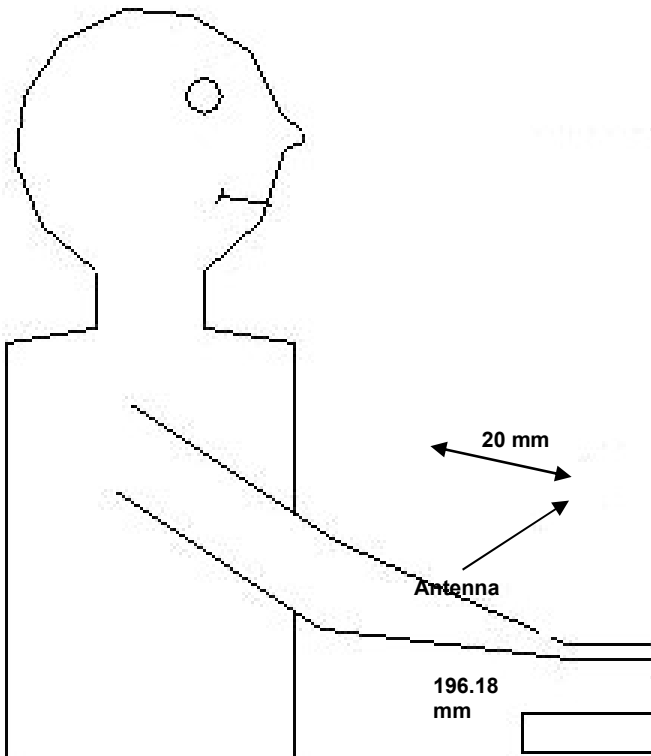
Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo(s) or dimensioned drawing(s)** of Tx1, Tx2 and Tx3 antenna placements (measurements are not required for receive-only antenna). Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.



Section 6. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo(s) or dimensioned drawing(s)** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, and ankle). For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.



Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between **all WLAN transmit antennas** and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Azerbaijan						
Cambodia						
Indonesia						
Israel						
Malaysia						
Philippines						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						
Vietnam						