

Regulatory WLAN Antenna Information

Platform information										
Brand	ODM		End product model name				Platform type (ex: regular NB, convertible PC, AIO...etc)			
Acer	Quanta		主型號: Switch F7H 系列型號:				PAD			
Antenna information										
Vendor		Type			Antenna Part number (Main)			Antenna Part number (Aux)		
AWAN		PIFA			AYP5Y-200000			AYP5Y-200000		
Antenna Manufacturer Information										
AWAN 13F., No.219, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City,Taiwan Tel : +886-2-8913-1939 #2686 http://www.awan-ant.com										
Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	2.90	2.30	2.00	1.23	0.31	0.23	3.38	2.87	1.16	2.73
Aux	1.45	0.12	1.49	1.52	2.22	2.22	3.40	2.01	1.95	1.96
All Antenna peak gain should be less the Antenna Net Gain spec as below: (RTL8852BE)										
Model		Antenna Type			Antenna Gain (dBi)					
					2.4G		5GHz		6GHz	
RTL8821CE RTL8822CE		Dipole			3.14		5		NA	
		PIFA			3.5		5		NA	
RTL8852AE		Dipole			3		5		NA	
RTL8852BE		PIFA			3.5		5		NA	
		Monopole			3.38		4.81		NA	
RTL8851BE		Dipole			3		5		NA	
		PIFA			3.4		5		NA	
		Monopole			3.2		4		NA	
RTL8852CE		Dipole			3		5		5	
		PIFA			3.5		5		5	
		Monopole			3.38		4.81		4.86	
RTL8922AE		Dipole			3		5		5	
		PIFA			3.4		5		5	
		Monopole			3.2		4		4.5	

Antenna Information

Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Total Peak Gain W/ Cable loss (dBi)	1F Total Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
(P/N: AYP5Y-200000) Main Antenna	AWAN	PIFA	50 ohm Coaxial length: 142 mm diameter: 0.81mm Normal Cable Connector : I-PEX IV	2400-2483.5	2.90	3.28	5.0	0.38
				5150-5250	2.30	2.84	5.0	0.54
				5250-5350	2.00	2.62	5.0	0.62
				5470-5725	1.23	1.87	5.0	0.64
				5725-5850	0.31	0.96	5.0	0.65
				5850-5895	0.23	0.92	5.0	0.69
				5925-6425	3.38	4.09	5.0	0.71
				6425-6525	2.87	3.62	5.0	0.75
				6525-6875	1.16	1.94	5.0	0.78
				6875-7125	2.73	3.60	5.0	0.87
(P/N: AYP5Y-200000) Aux Antenna	AWAN	PIFA	50 ohm Coaxial length: 192 mm diameter: 0.81 mm Normal Cable Connector : I-PEX IV	2400-2483.5	1.45	1.96	5.0	0.51
				5150-5250	0.12	0.84	5.0	0.72
				5250-5350	1.49	2.32	5.0	0.83
				5470-5725	1.52	2.37	5.0	0.85
				5725-5850	2.22	3.08	5.0	0.86
				5850-5895	2.22	3.14	5.0	0.92
				5925-6425	3.40	4.35	5.0	0.95
				6425-6525	2.01	3.01	5.0	1.00
				6525-6875	1.95	2.99	5.0	1.04
				6875-7125	1.96	3.12	5.0	1.16

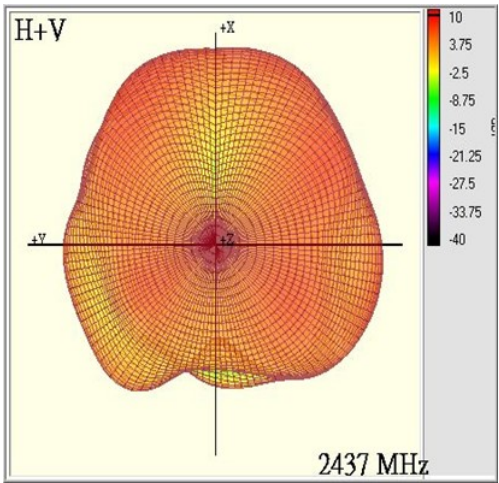
- 3D Antenna Peak Gain required being test in system basis.

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

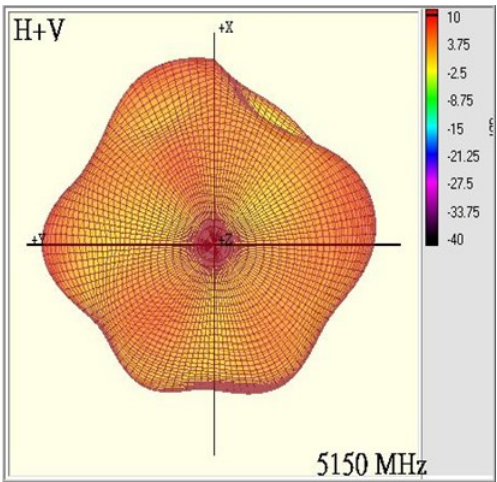
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.90



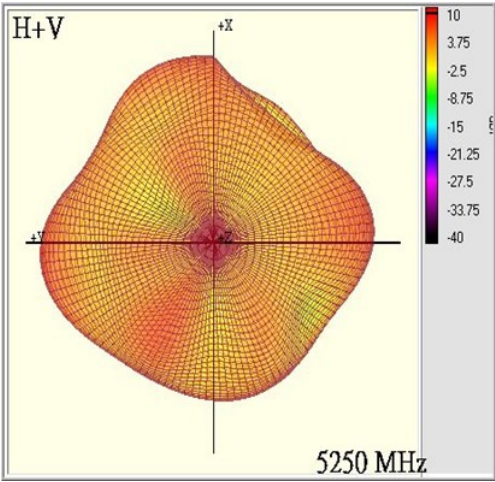
Max Antenna 3D Radiation Pattern 5150 – 5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.30



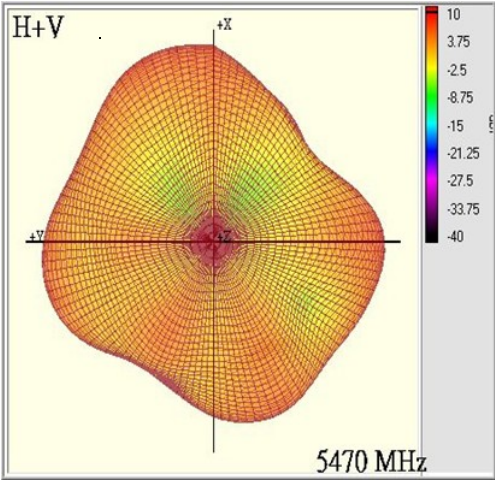
Max Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.00



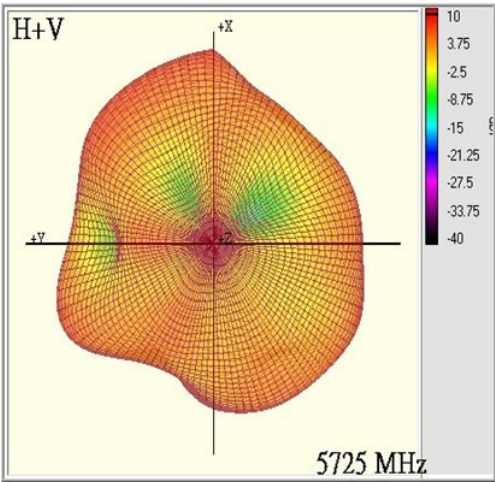
Max Antenna 3D Radiation Pattern 5470 – 5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.23



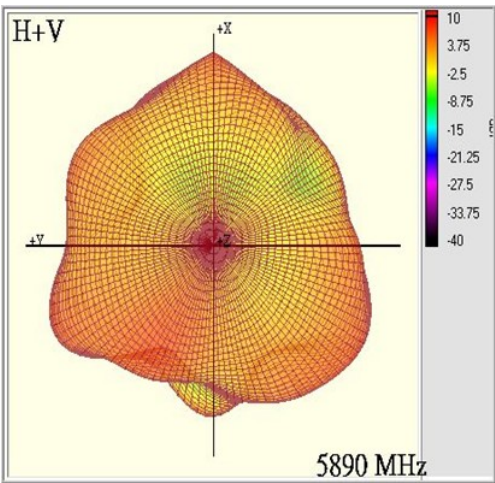
Max Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	0.31



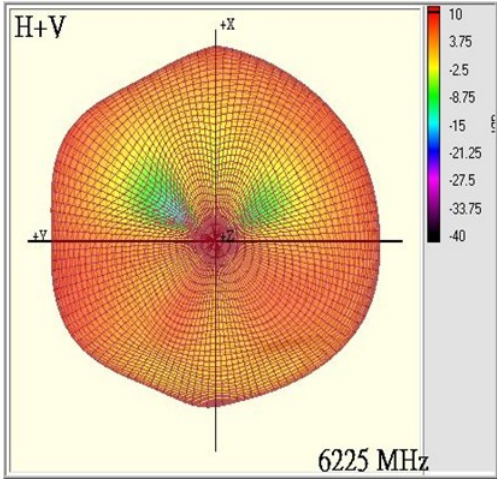
Max Antenna 3D Radiation Pattern 5850 – 5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	0.23



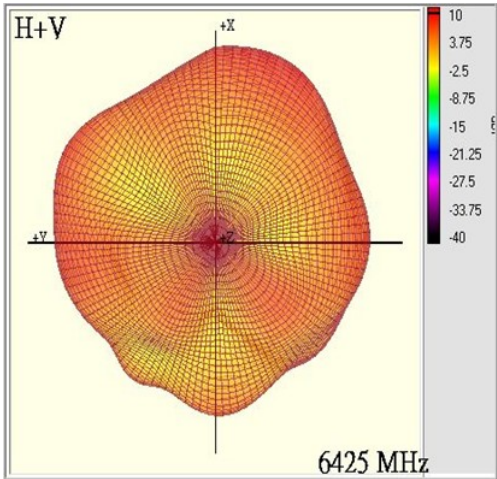
Max Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.38



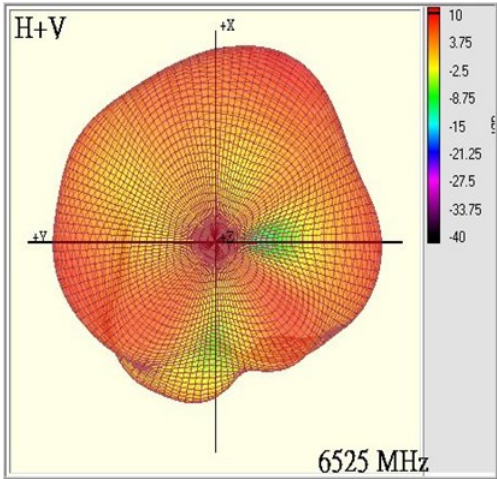
Max Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.87



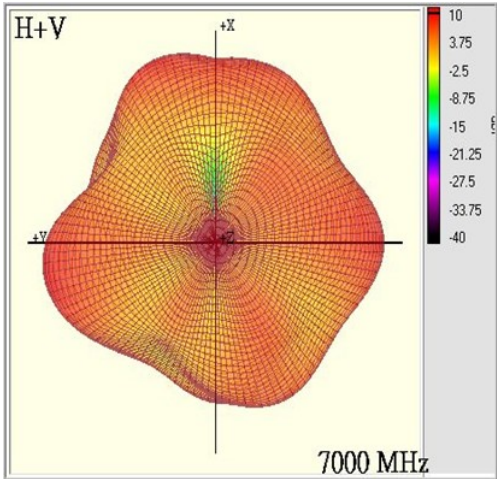
Max Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.16



Max Antenna 3D Radiation Pattern 6875 – 7125 MHz

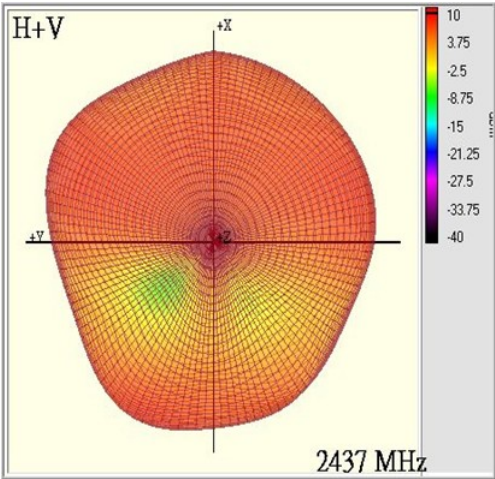
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.73



Auxiliary Antenna

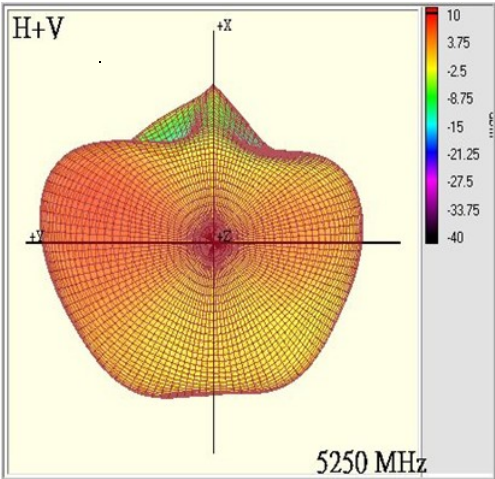
Aux Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.45



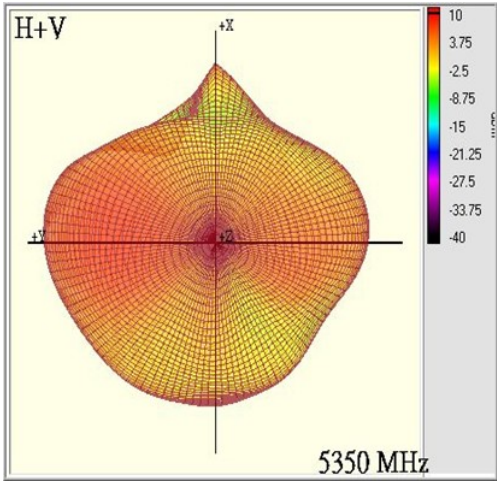
Aux Antenna 3D Radiation Pattern 5150 – 5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	0.12



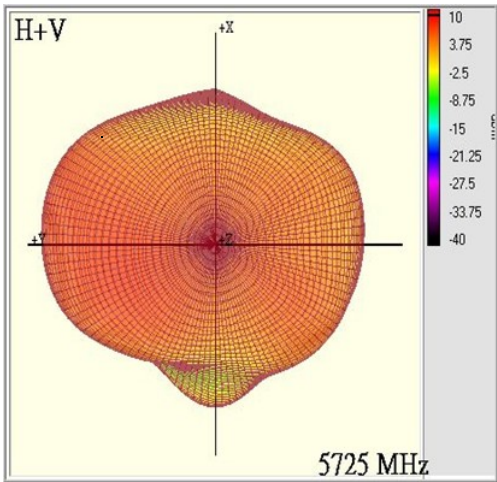
Aux Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.49



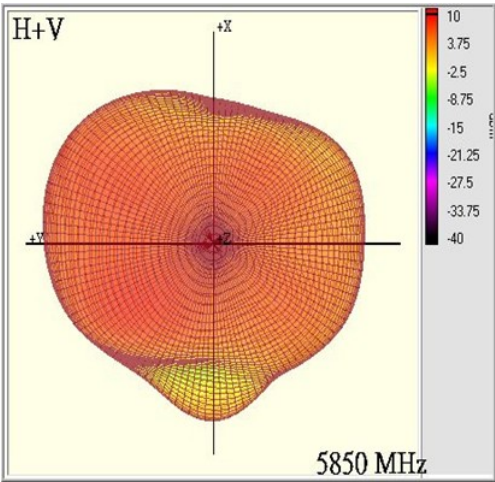
Aux Antenna 3D Radiation Pattern 5470 – 5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.52



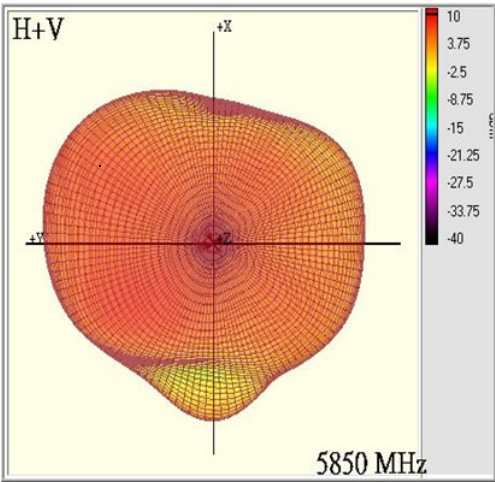
Aux Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.22



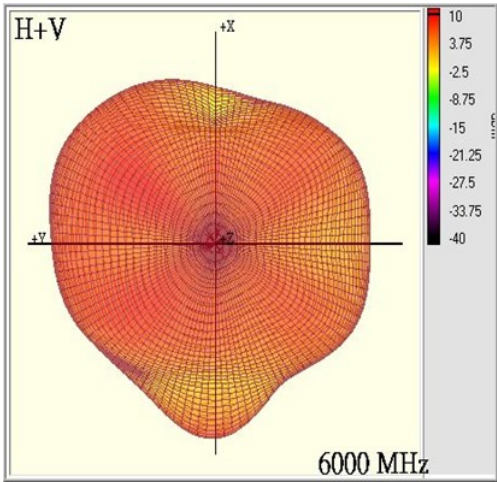
Aux Antenna 3D Radiation Pattern 5850 – 5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.22



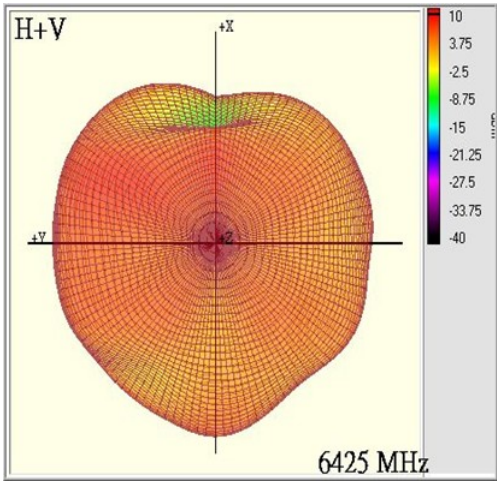
Aux Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.40



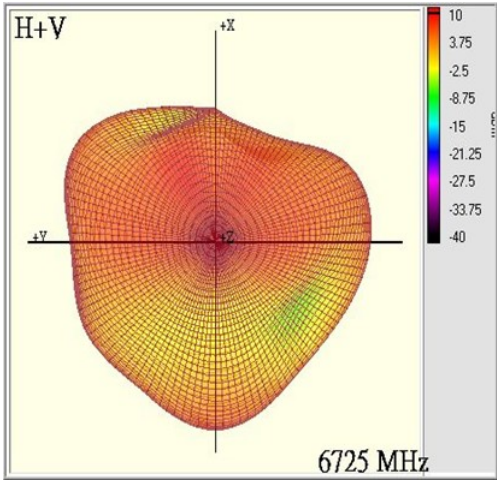
Aux Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.01



Aux Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.95



Aux Antenna 3D Radiation Pattern 6875 – 7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.96

