Regulatory

• **Product type**	• **WLAN Antenna**
• **Model number**	• **Dell / Quanta / Tahiti**
• **Revision**	• **X02-P**
• **Part No. / Yageo / LCD / Base**	• **CAN4313 388 012501B / 022501B**
• **Part No. / Dell/ Quanta / LCD / Base**	• **DQ601250112 / DQ660225005**

Yageo (Taiwan) Ltd.
16, West 3rd Street, N.E.P.Z Kaohsiung, 811 Taiwan, R.O.C

Yageo Electronics (China) Co, Ltd
No. 10, Zhu Yuan Road, Suzhou New District, Suzhou, PRC

1. Specifications

Antenna Specifications

Antenna Type (Material, Technology)	Material: Phosphor Bronze Stamping Inverted-F Metal Antenna Technology Lead Free Technology
Antenna Model Number	Yageo Tahiti LCD / Base Antenna Yageo P/N: CAN 4313 388 012501B / 022501B Dell/ Quanta P/N: DQ601250112 / DQ660225005
Operating Frequency Range(s)	2.4GHz ~ 25GHz and 4.9GHz ~ 5.9GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	1.16
Peak Gain (802.11a / 5GHz Band) (dBi)	3.75
Radio Connector Type	Hirose U.FL-LP-88 or IPEX 20308-111R-32/ 20363-111R-37 or Compatible Mini-PCI Connector
Mid-Line Connector Type (If Applicable)	Molex or Aliner or compatible SSMCX (Plug+ Jack) connectors

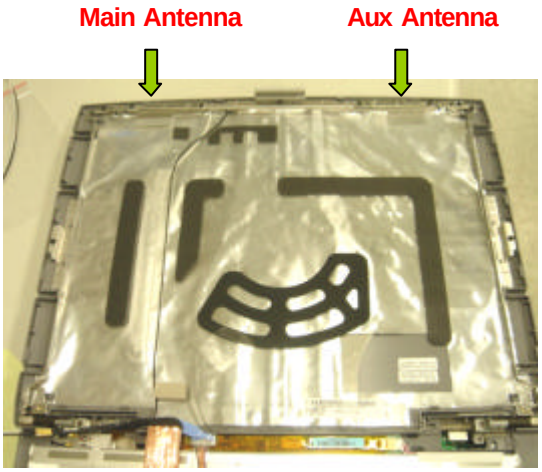
Remark: Peak Gains include all system losses (connector, cable, etc)

Cable Specifications

Cable Parameters	**Main**			**Aux**		
	LCD Side	**Base Side**	**Total**	**LCD Side**	**Base Side**	**Total**
Length (mm)	344	175	519	450	190	640
Loss (Including Connectors) (dB)	0.75/ 1.05	0.58/ 0.87	1.33/ 1.92	1.12/ 1.58	0.54/ 0.78	1.66/ 2.36
Description (Color, Diameter, Manufacturer)	Color: White OD: 1.32~1.37 mm Vendor: Kurabe or equivalent performance cables			Color: Black OD: 1.32~1.37 mm Vendor: Kurabe or equivalent performance cables		

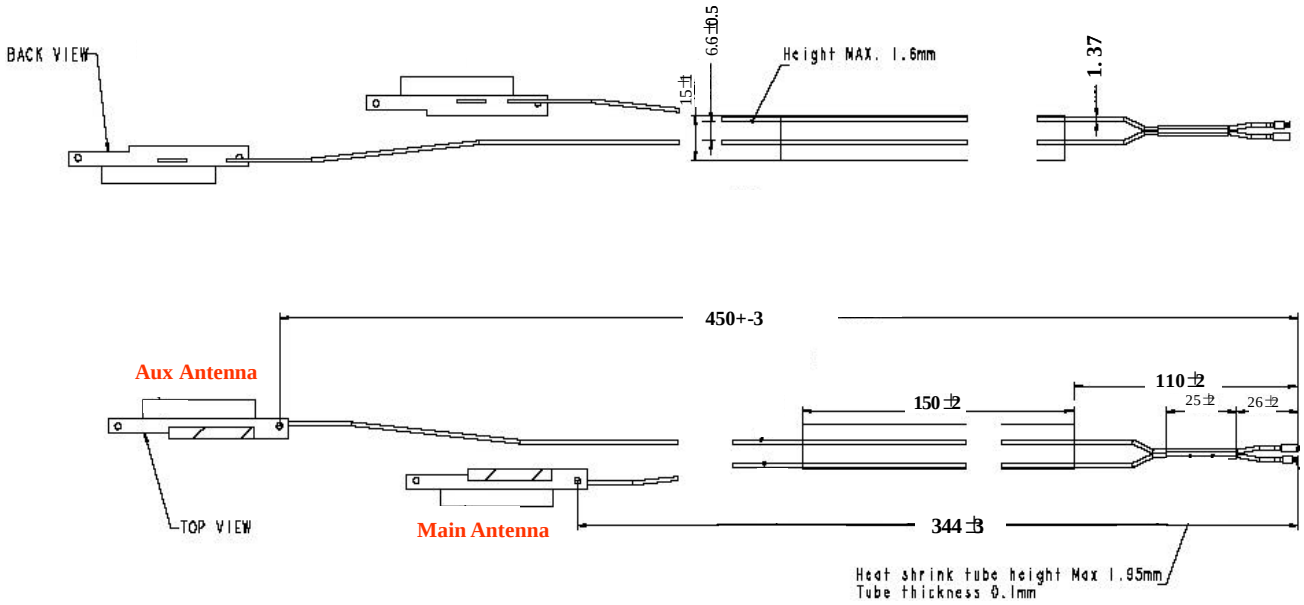
2. Antenna Assembly

3. Antenna Assembly Installed in The Notebook

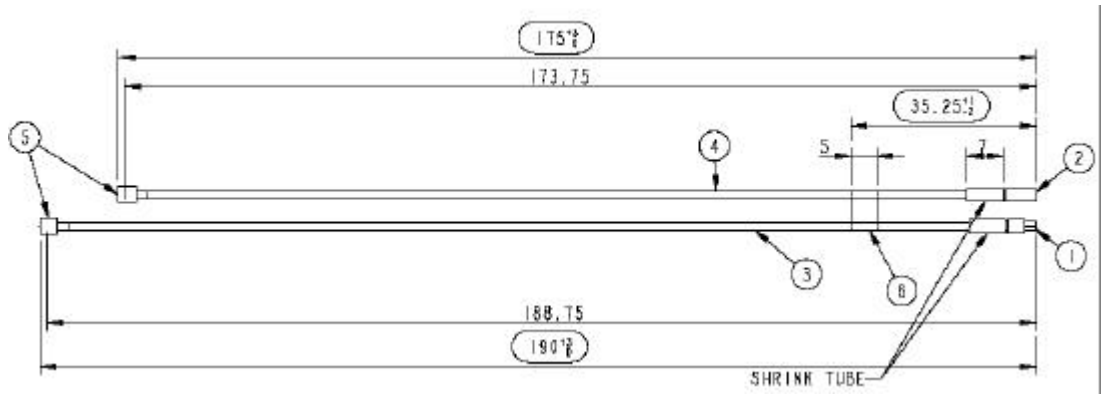


4. Mechanical Drawing of Antennas

Tahiti LCD Antenna



Tahiti Base Antenna

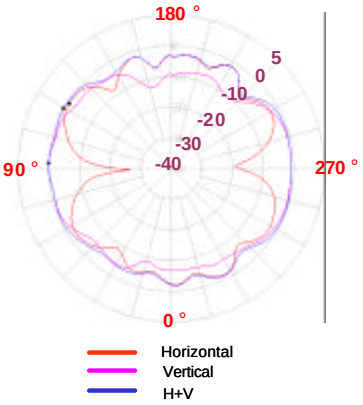


ITEM	DESCRIPTION	QTY
1	SSMCX-PC PLUG(MALE)(MOLEX 73415-4680)	1
2	SSMCX-JC PLUG(FEMALE)(MOLEX 73415-4760)	1
3	CABLE Ø1.37 BLACK COLOR	1
4	CABLE Ø1.37 WHITE COLOR	1
5	UFL CONNECTOR(HRS,I-PEX)	2
6	HEAT SHRINK TUBE(INCLUDE GLUE) OR ACETATE TAPE t=0.3	1

Remark: Antenna patches follow “Dell Standard Antenna Dimension”

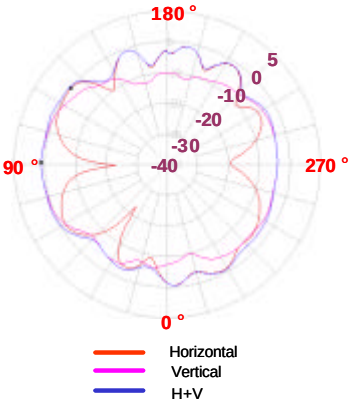
5. Gain Patterms

- Main Antenna



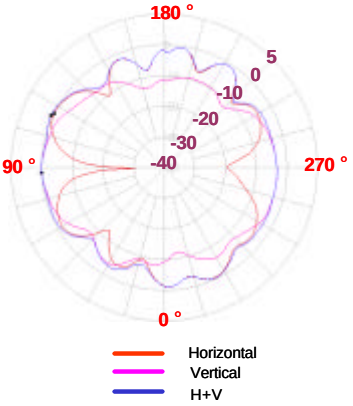
Horizontal
Vertical
H+V

Center Frequency	2400 MHz
Horizontal peak gain (dBi)	-0.55
Vertical peak Gain (dBi)	0.09
Hori + Vert Peak gain (dBi)	0.31
Hori + Vert Ave gain (dBi)	-1.83



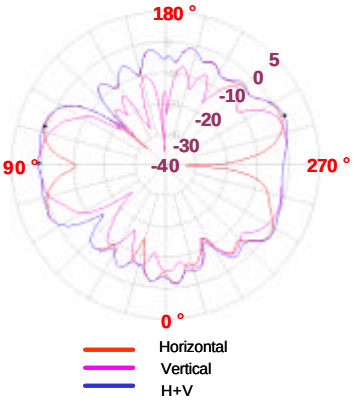
Horizontal
Vertical
H+V

Center Frequency	2450 MHz
Horizontal peak gain (dBi)	0.06
Vertical peak Gain (dBi)	1.16
Hori + Vert Peak gain (dBi)	1.17
Hori + Vert Ave. gain (dBi)	-2.01



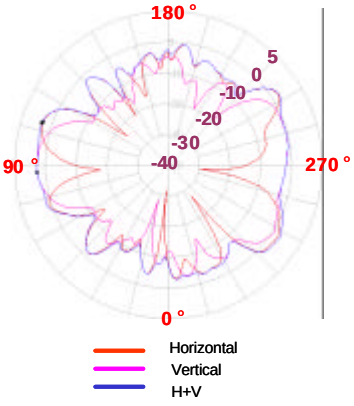
Horizontal
Vertical
H+V

Center Frequency	2483.5MHz
Horizontal peak gain (dBi)	0.03
Vertical peak Gain (dBi)	0.07
Hori + Vert Peak gain (dBi)	0.64
Hori + Vert Ave. gain (dBi)	-2.50



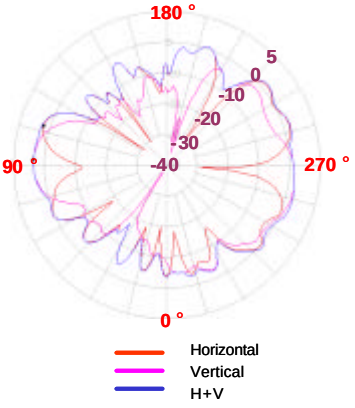
Horizontal
Vertical
H+V

Center Frequency	4900 MHz
Horizontal peak gain (dBi)	1.21
Vertical peak Gain (dBi)	1.25
Hori + Vert Peak gain (dBi)	1.84
Hori + Vert Ave. gain (dBi)	-2.01



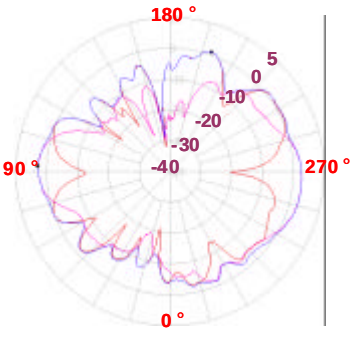
Horizontal
Vertical
H+V

Center Frequency	5125 MHz
Horizontal peak gain (dBi)	3.04
Vertical peak Gain (dBi)	2.78
Hori + Vert Peak gain (dBi)	3.30
Hori + Vert Ave. gain (dBi)	-1.50



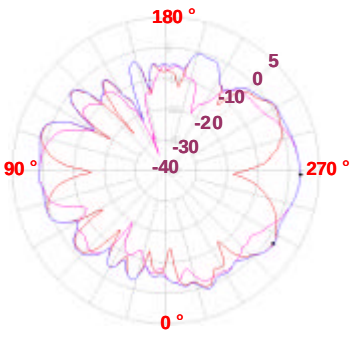
Horizontal
Vertical
H+V

Center Frequency	5350 MHz
Horizontal peak gain (dBi)	2.18
Vertical peak Gain (dBi)	3.16
Hori + Vert Peak gain (dBi)	3.62
Hori + Vert Ave. gain (dBi)	-1.15



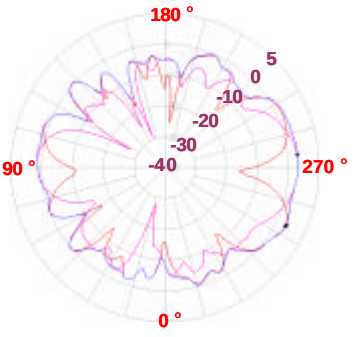
Horizontal
Vertical
H+V

Center Frequency	5470 MHz
Horizontal peak gain (dBi)	1.08
Vertical peak Gain (dBi)	2.89
Hori + Vert Peak gain (dBi)	2.90
Hori + Vert Ave. gain (dBi)	-1.32



Horizontal
Vertical
H+V

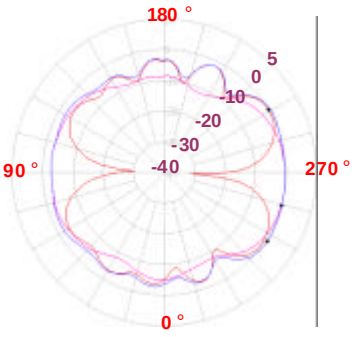
Center Frequency	5672.5 MHz
Horizontal peak gain (dBi)	2.46
Vertical peak Gain (dBi)	3.75
Hori + Vert Peak gain (dBi)	3.75
Hori + Vert Ave. gain (dBi)	-0.71



Horizontal
Vertical
H+V

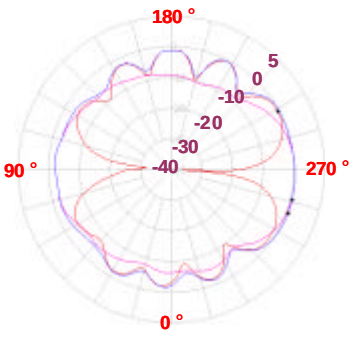
Center Frequency	5875 MHz
Horizontal peak gain (dBi)	3.50
Vertical peak Gain (dBi)	3.09
Hori + Vert Peak gain (dBi)	3.65
Hori + Vert Ave. gain (dBi)	-0.80

- Aux Antenna



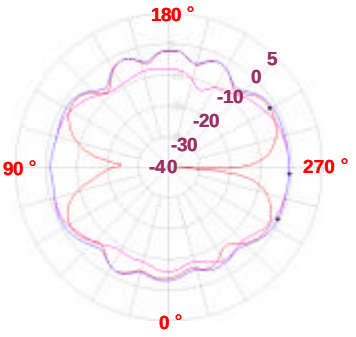
Horizontal
Vertical
H+V

Center Frequency	2400 MHz
Horizontal peak gain (dBi)	0.04
Vertical peak Gain (dBi)	-0.01
Hori + Vert Peak gain (dBi)	0.73
Hori + Vert Ave gain (dBi)	-2.36



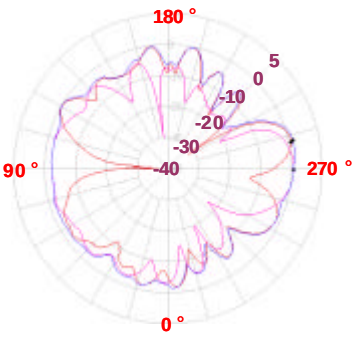
Horizontal
Vertical
H+V

Center Frequency	2450 MHz
Horizontal peak gain (dBi)	-0.36
Vertical peak Gain (dBi)	0.55
Hori + Vert Peak gain (dBi)	0.72
Hori + Vert Ave. gain (dBi)	-2.18



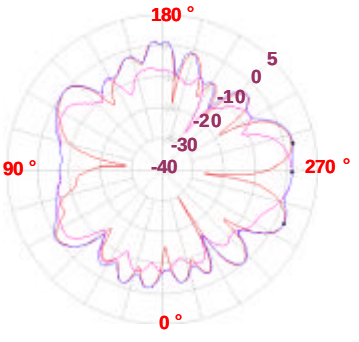
Horizontal
Vertical
H+V

Center Frequency	2483.5MHz
Horizontal peak gain (dBi)	-1.96
Vertical peak Gain (dBi)	-0.78
Hori + Vert Peak gain (dBi)	-0.70
Hori + Vert Ave. gain (dBi)	-2.49



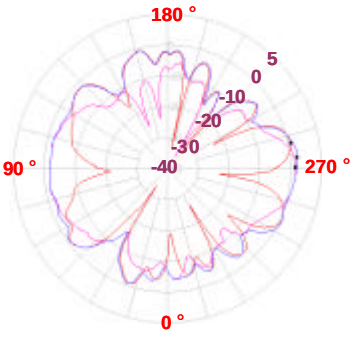
Horizontal
Vertical
H+V

Center Frequency	4900 MHz
Horizontal peak gain (dBi)	0.81
Vertical peak Gain (dBi)	0.82
Hori + Vert Peak gain (dBi)	1.59
Hori + Vert Ave. gain (dBi)	-2.84



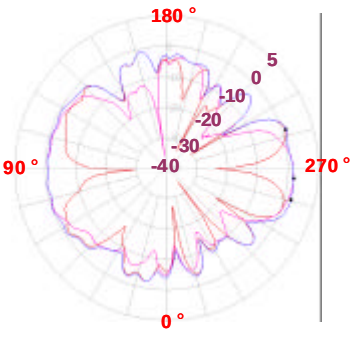
Horizontal
Vertical
H+V

Center Frequency	5125 MHz
Horizontal peak gain (dBi)	2.82
Vertical peak Gain (dBi)	1.90
Hori + Vert Peak gain (dBi)	2.97
Hori + Vert Ave. gain (dBi)	-2.18



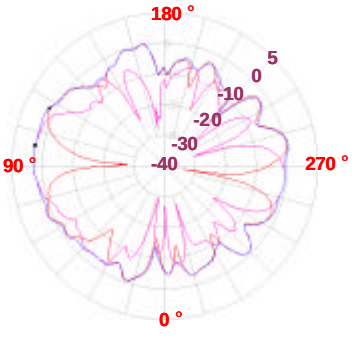
Horizontal
Vertical
H+V

Center Frequency	5350 MHz
Horizontal peak gain (dBi)	0.79
Vertical peak Gain (dBi)	1.72
Hori + Vert Peak gain (dBi)	2.21
Hori + Vert Ave. gain (dBi)	-2.82



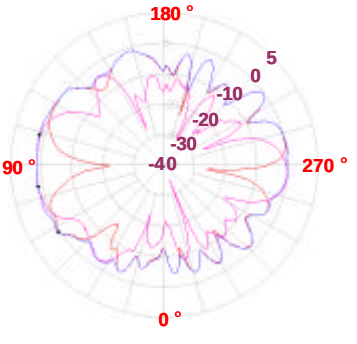
Horizontal
Vertical
H+V

Center Frequency	5470 MHz
Horizontal peak gain (dBi)	1.14
Vertical peak Gain (dBi)	1.95
Hori + Vert Peak gain (dBi)	2.31
Hori + Vert Ave. gain (dBi)	-2.38



Horizontal
Vertical
H+V

Center Frequency	5672.5 MHz
Horizontal peak gain (dBi)	2.03
Vertical peak Gain (dBi)	2.89
Hori + Vert Peak gain (dBi)	2.92
Hori + Vert Ave. gain (dBi)	-1.63



Horizontal
Vertical
H+V

Center Frequency	5875 MHz
Horizontal peak gain (dBi)	0.73
Vertical peak Gain (dBi)	1.66
Hori + Vert Peak gain (dBi)	1.81
Hori + Vert Ave. gain (dBi)	-2.06