

Description :	Triple-band Antenna(Main+Aux)
Inventec Crop. P/N:	6036A0006301
	6036A0006401
Wistron NeWeb P/N:	81.CA815.003
	81.CA815.004

**No. 10-1, Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300, Taiwan, R.O.C.
Tel: 886-3-6667799
Fax: 886-3-6667711**

Provided by Wistron NeWeb Corp.	Reviewed by Wistron NeWeb Corp.
David Tau	Eric Fang

Antenna Information

I. Antenna Assembly Specifications

- For 15 in LCD

Antenna assembly overview: Peak Gain including cable loss.

Designator	Manufacture	Antenna type	Cable Assembly Info.	Peak Gain W/ Cable loss (dBi)
(P/N: 6036A0006301) Main antenna	WNC	PIFA	(P/N:WN-S-1.13B-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 2.84dBi (peak)
				5150-5350MHz 2.17 dBi (peak)
				5470-5825MHz 3.07 dBi (peak)
(P/N: 6036A0006401) Auxiliary antenna	WNC	PIFA	(P/N: WN-S-1.13W-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 2.62 dBi (peak)
				5150-5350MHz 0.98 dBi (peak)
				5470-5825MHz 2.02 dBi (peak)

Antenna overview: Peak Gain not including cable loss.

Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
(P/N: 6036A0006301) Main antenna	WNC	PIFA	2400-2500MHz 4.82dBi (peak)
			5150-5350MHz 5.14dBi (peak)
			5470-5825MHz 5.78dBi (peak)
(P/N: 6036A0006401) Auxiliary antenna	WNC	PIFA	2400-2500MHz 4.60dBi (peak)
			5150-5350MHz 3.95 dBi (peak)
			5470-5825MHz 5.09 dBi (peak)

Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dB)
(P/N:WN-S-1.13B-540MM(2-4-1)) For use with the Main antenna	IPEX	(P/N:WN-S-1.13B-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 1.81 max	2400-2500MHz 1.98 dB (peak)
			5150-5350MHz 1.54 max	5150-5350MHz 2.97 dB (peak)
			5470-5825MHz 2.06 max	5470-5825MHz 3.07dB (peak)
(P/N:WN-S-1.13W-540MM(2-4-1)) For use with the Auxiliary antenna	IPEX	(P/N:WN-S-1.13W-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 1.73 max	2400-2500MHz 1.98 dB (peak)
			5150-5350MHz 1.81 max	5150-5350MHz 2.97 dB (peak)
			5470-5825MHz 1.46 max	5470-5825MHz 3.07dB (peak)

● For 14 in LCD

Antenna assembly overview: Peak Gain including cable loss.

Designator	Manufacture	Antenna type	Cable Assembly Info.	Peak Gain W/ Cable loss (dBi)
(P/N: 6036A0006301) Main antenna	WNC	PIFA	(P/N:WN-S-1.13B-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 2.63dBi (peak)
				5150-5350MHz 2.63 dBi (peak)
				5470-5825MHz 2.84 dBi (peak)
(P/N: 6036A0006401) Auxiliary antenna	WNC	PIFA	(P/N:WN-S-1.13W-540MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 2.62 dBi (peak)
				5150-5350MHz 1.29 dBi (peak)
				5470-5825MHz 2.89 dBi (peak)

Antenna overview: Peak Gain not including cable loss.

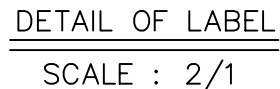
Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
(P/N: 6036A0006301) Main antenna	WNC	PIFA	2400-2500MHz 4.61dBi (peak)
			5150-5350MHz 5.60dBi (peak)
			5470-5825MHz 5.91dBi (peak)
(P/N: 6036A0006401) Auxiliary antenna	WNC	PIFA	2400-2500MHz 4.60dBi (peak)
			5150-5350MHz 4.26dBi (peak)
			5470-5825MHz 5.96dBi (peak)

Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dB)
(P/N:WN-S-1.13B-5 40MM(2-4-1)) For use with the Main antenna	IPEX	(P/N:WN-S-1.13B-5 40MM(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 1.81 max	2400-2500MHz 1.98 dB (peak)
			5150-5350MHz 1.54 max	5150-5350MHz 2.97 dB (peak)
			5470-5825MHz 2.06 max	5470-5825MHz 3.07dB (peak)
(P/N: WN-S-1.13W-540M M(2-4-1)) For use with the Auxiliary antenna	IPEX	(P/N: WN-S-1.13W-540M M(2-4-1)) 50 ohm Coaxial. length: 540mm diameter: 1.13mm Connector: IPEX 20278-111R-08	2400-2500MHz 1.73 max	2400-2500MHz 1.98 dB (peak)
			5150-5350MHz 1.81 max	5150-5350MHz 2.97 dB (peak)
			5470-5825MHz 1.46 max	5470-5825MHz 3.07dB (peak)

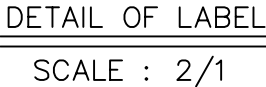
Drawing of antennae as follow.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE: INTEGRAL DIMENSIONS ± 0.2 1 PLACE DECIMAL ± 0.1 2 PLACE DECIMALS ± 0.05				wistron 啟基科技股份有限公司 Wistron NeWeb Corp. No. 10-1, Li-hsin Road I, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C. Tel: 886-3-6667799 Fax: 886-3-6667711			
		MATERIAL: NA				DWG TITLE 81.EBL15.001			
		FINISH: NA							
		THIRD ANGLE PROJECTION	DRAWN			SIZE	DWG NO.		REV
NEXT ASSY			ENGR			A4			X02
USED ON			APVD						
APPLICATION						SCALE	1/1	SHEET	1 OF 1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:				wistron 啟碁科技股份有限公司 <i>Wistron NeWeb Corp.</i> No. 10-1, Li-hsin Road I, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C. Tel: 886-3-6667799 Fax: 886-3-6667711			
		INTEGRAL DIMENSIONS ± 0.2 1 PLACE DECIMAL ± 0.1 2 PLACE DECIMALS ± 0.05		ANGULAR DIMENSIONS ± 1° HOLES UNDER Ø5.00 ± 0.05		DWG TITLE 81.EBL15.002			
		MATERIAL: NA							
		FINISH: NA							
	EB7-I	THIRD ANGLE PROJECTION 	DRAWN			SIZE	DWG NO.		REV
NEXT ASSY	USED ON		ENGR			A4			X02
APPLICATION			APVD			SCALE	1/1	SHEET	1 OF 1

Radiation characteristic of antennae Loaded (In Host System)

I. Peak Gain and Average Gain

For 15 in LCD

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.825 GHz)		
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.6475 GHz	5.825 GHz
MAIN	Peak dBi	2.84	2.81	2.76	0.89	2.17	1.30	1.84	2.58	2.71
	Avg dBi	-1.00	-1.35	-1.21	-1.96	-2.00	-2.61	-2.77	-2.19	-2.35
AUX	Peak dBi	2.62	2.09	2.30	-0.17	0.98	0.37	0.95	2.02	1.68
	Avg dBi	-1.44	-1.77	-1.04	-3.50	-3.25	-3.20	-2.74	-2.11	-2.44

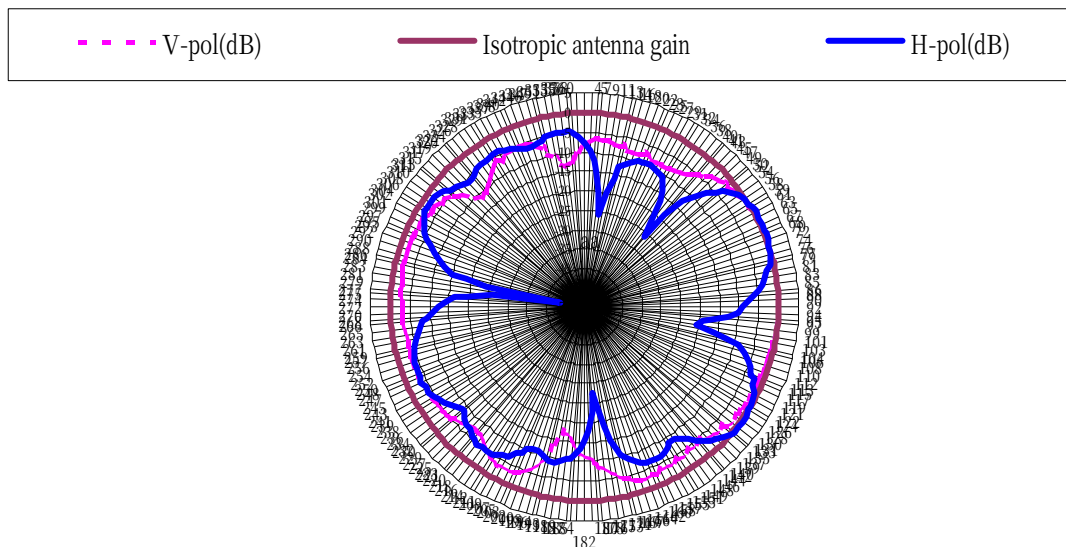
For 14 in LCD

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.825 GHz)		
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.6475 GHz	5.825 GHz
MAIN	Peak dBi	2.52	2.63	1.77	2.29	2.48	2.63	2.84	2.81	1.53
	Avg dBi	-1.58	-1.59	-1.79	-1.66	-1.43	-1.58	-1.35	-1.07	-2.22
AUX	Peak dBi	2.45	1.39	2.62	1.00	0.81	1.29	1.92	2.89	2.61
	Avg dBi	-1.87	-1.95	-0.64	-3.47	-3.21	-2.67	-2.14	-1.64	-2.39

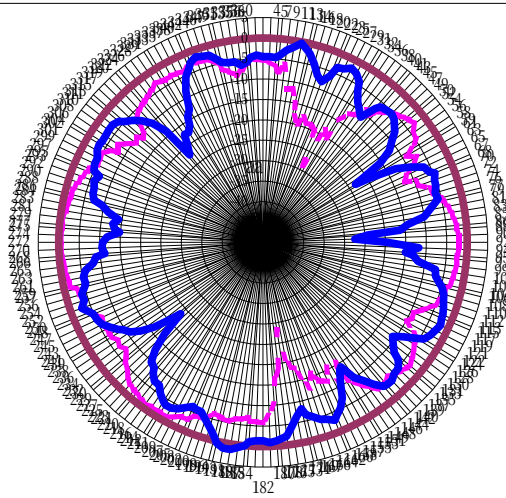
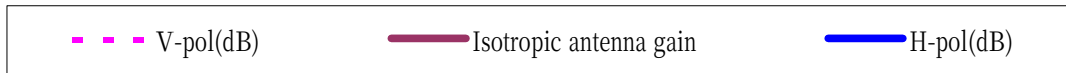
II Radiation Pattern

- For 15 in LCD

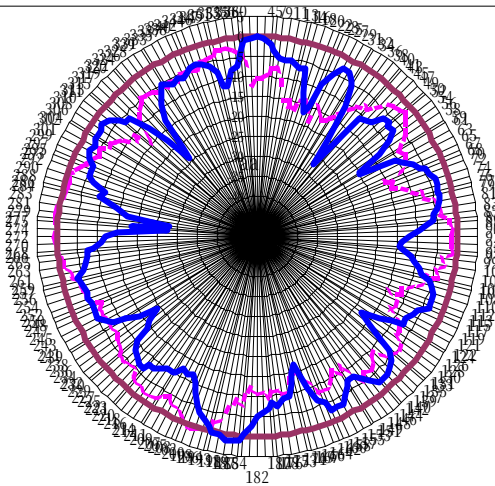
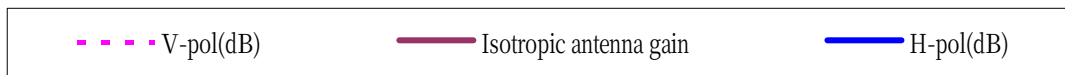
Main antenna -@2.45GHz



Main antenna -@5.25GHz



Main antenna -@5.6475GHz

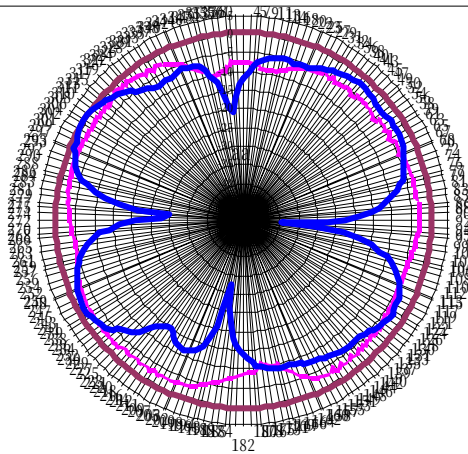


AUX Antenna -@2.45GHz

- - - V-pol(dB)

Isotropic antenna gain

— H-pol(dB)

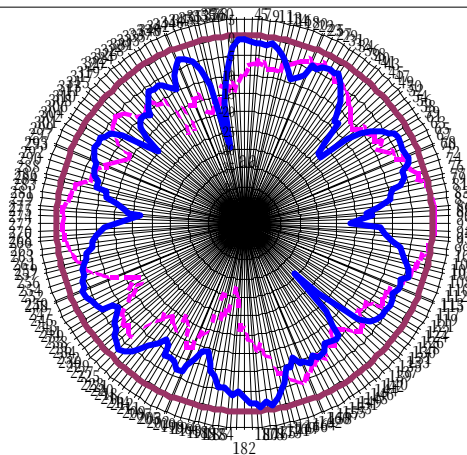


AUX Antenna -@5.25GHz

- - - V-pol(dB)

Isotropic antenna gain

— H-pol(dB)

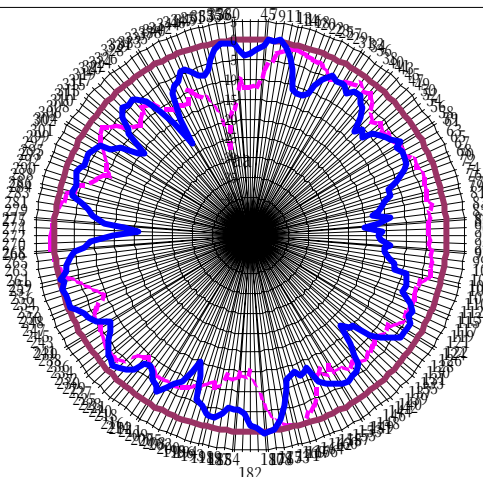


AUX Antenna -@5.6475GHz

- - - V-pol(dB)

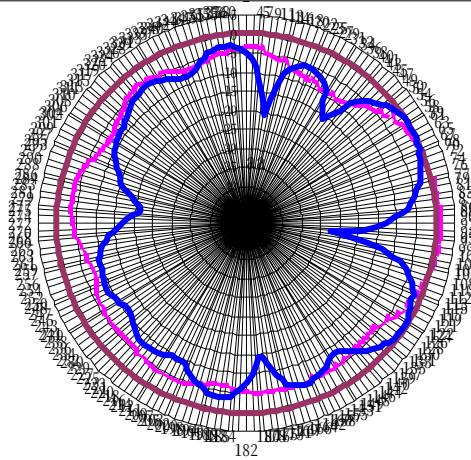
Isotropic antenna gain

— H-pol(dB)

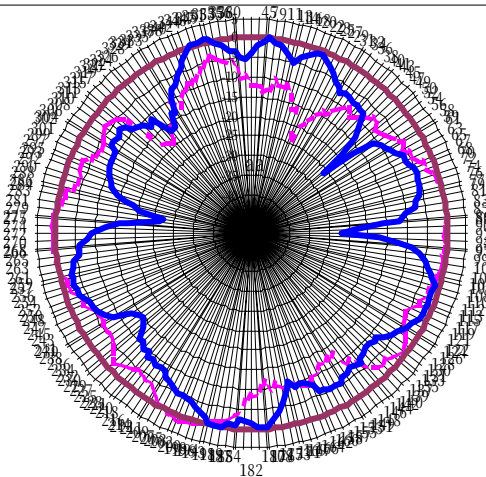
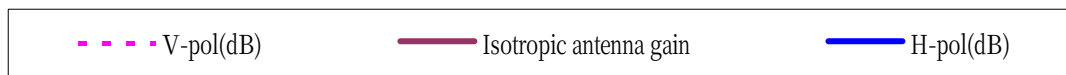


● For 14 in LCD

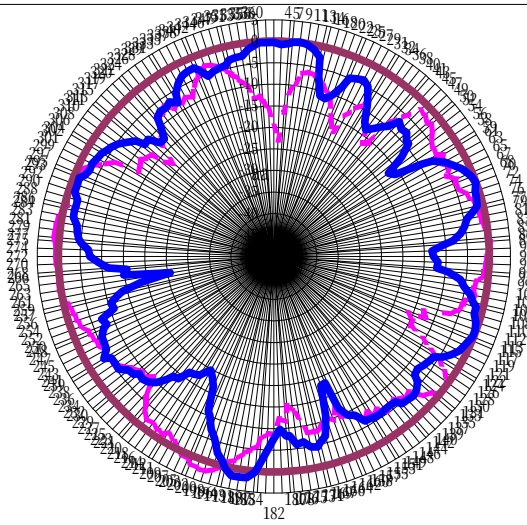
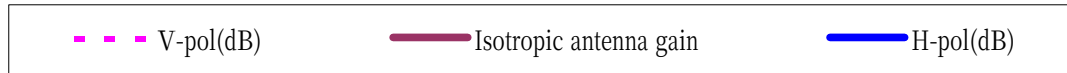
Main antenna -@2.45GHz



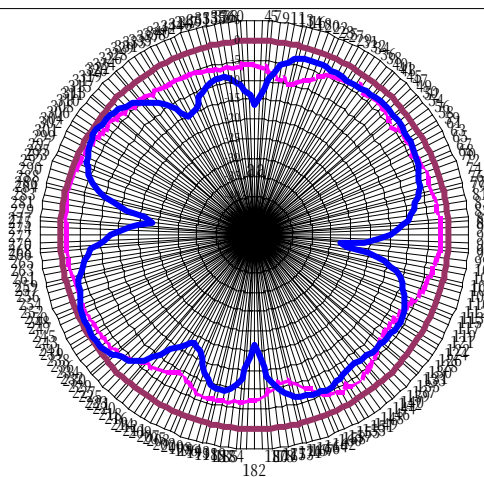
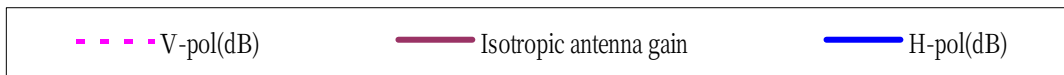
Main antenna -@5.25GHz



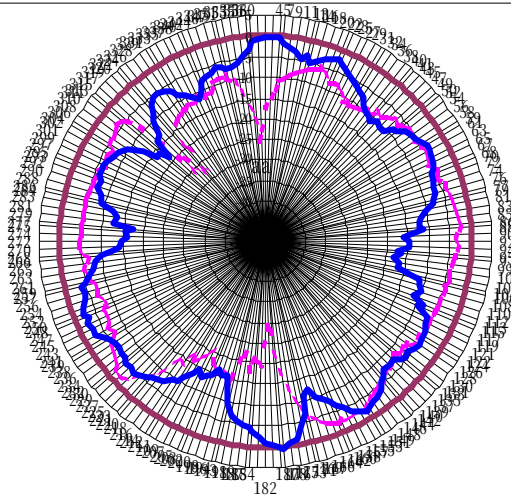
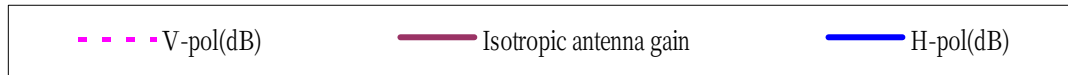
Main antenna -@5.6475GHz



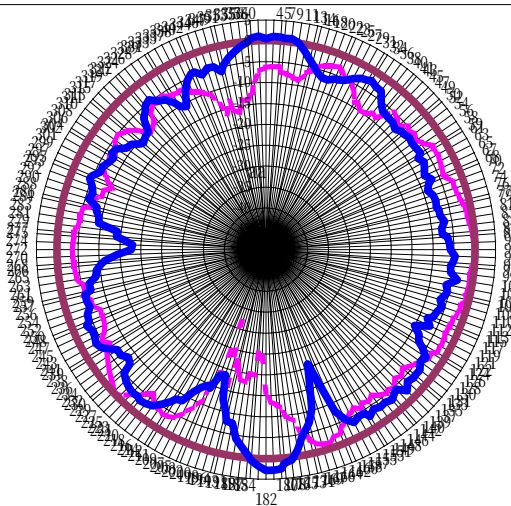
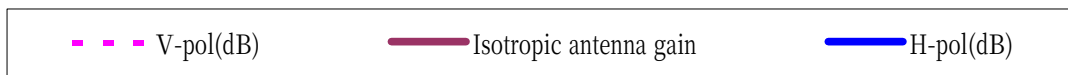
AUX Antenna -@2.45GHz



AUX Antenna -@5.25GHz



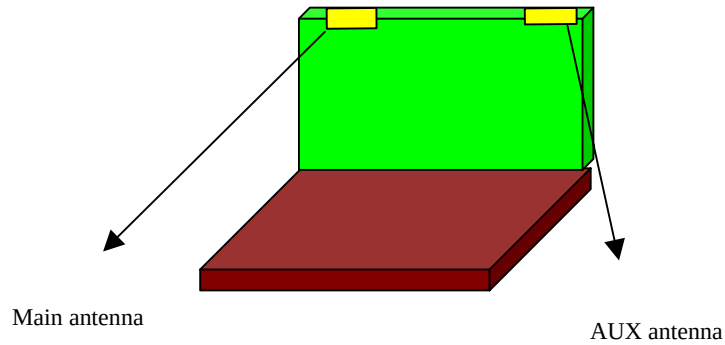
AUX Antenna -@5.6475GHz



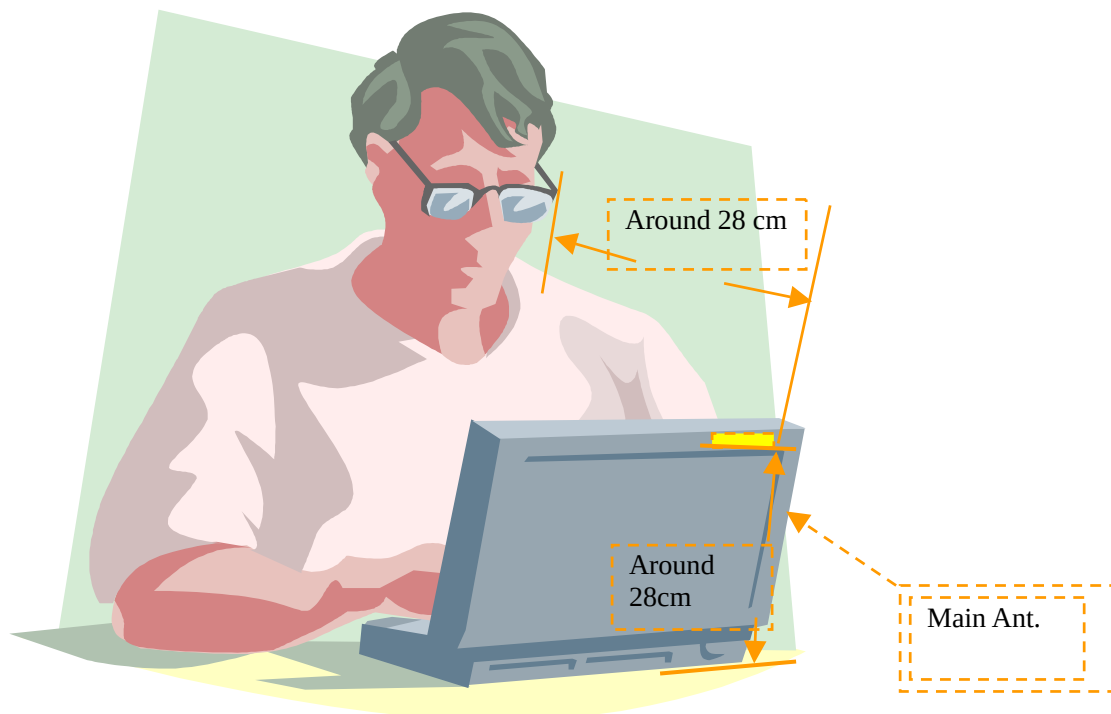
Host PC Information

Host model:Crystal

Drawing of antenna placement.



Drawing showing the distance between the transmit (main) antenna and the user (excluding hands, wrist, feet, and ankle)



Photographs of the antenna location

Main Antenna	Aux Antenna
	

