

WWAN (EVDO) Antenna Information

ThinkPad Z60 Series (Z60m, Z60t)

1. Antenna Specification

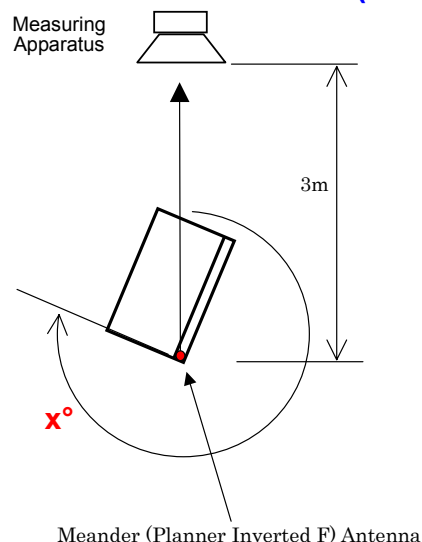
Transmission Antenna assembly overview

Antenna Designator	Host PC	Manufacture	Antenna type	Cable type and length	Peak Gain (dBi) Note 1)
WDAN-BQBW 1003	ThinkPad Z60m (ABS)	FOXCONN HON HAI PRECISION IND. Co., Ltd. (R.O.C.)	Dual Band Meander (Planner Inverted F) Antenna	Coax 515mm	824-849MHz 0.00 dBi (@ 849M)
					1850-1910MHz 3.11 dBi (@1910M)
WDAN-BQBV1 003	ThinkPad Z60t (CFRP Hybrid)	FOXCONN HON HAI PRECISION IND. Co., Ltd. (R.O.C.)	Dual Band Meander (Planner Inverted F) Antenna	Coax 300mm	824-849MHz -2.60 dBi (@ 849M)
					1850-1910MHz -2.54 dBi (@1850M)
	ThinkPad Z60t (CFRP Aluminum)	FOXCONN HON HAI PRECISION IND. Co., Ltd. (R.O.C.)	Dual Band Meander (Planner Inverted F) Antenna	Coax 300mm	824-849MHz -2.52 dBi (@ 849M)
					1850-1910MHz -1.69 dBi (@1850M)

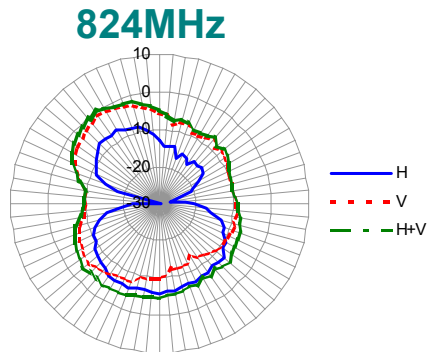
2. Radiation characteristic of antennas

Radiation characteristic of antenna is measured in regard to the rotation angle x° as shown below.

ThinkPad Z60m/Z60t Antenna (LCD Right)

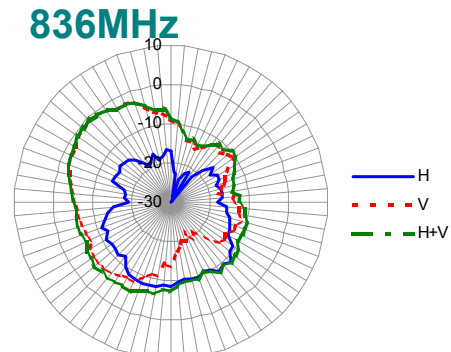


2.1 Radiation characteristic of ThinkPad Z60m (ABS)



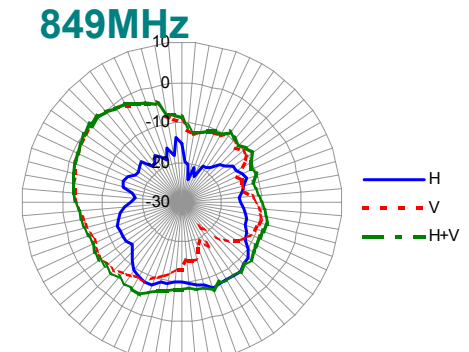
Hori (dBi) ave. -9.83
Vert (dBi) ave. -6.79
H+V (dBi) ave. -5.04
Peak (dBi) (V) -1.15
Peak angle (deg) 325

1850 MHz XY



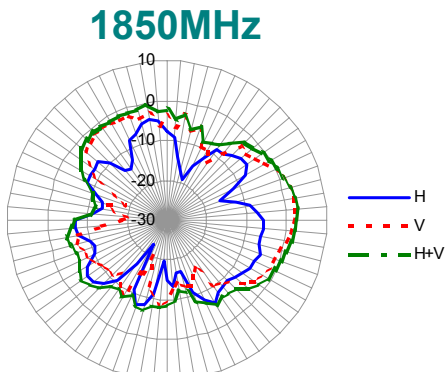
Hori (dBi) ave. -12.75
Vert (dBi) ave. -6.93
H+V (dBi) ave. -5.92
Peak (dBi) (V) -0.40
Peak angle (deg) 315

1880 MHz XY

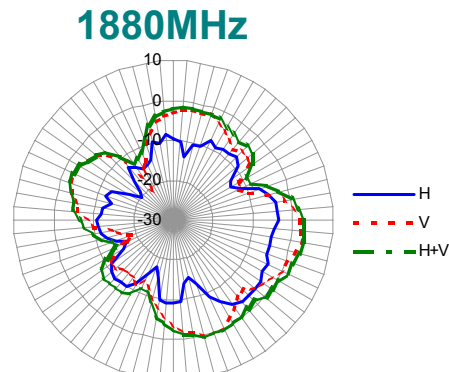


Hori (dBi) ave. -12.13
Vert (dBi) ave. -6.33
H+V (dBi) ave. -5.31
Peak (dBi) (V) 0.00
Peak angle (deg) 310

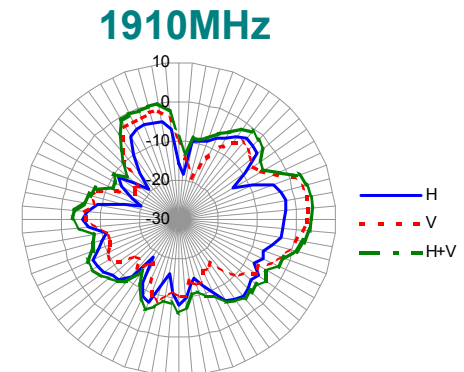
1910 MHz XY



Hori (dBi) ave. -8.43
Vert (dBi) ave. -4.22
H+V (dBi) ave. -2.82
Peak (dBi) (V) 2.19
Peak angle (deg) 85



Hori (dBi) ave. -8.43
Vert (dBi) ave. -3.77
H+V (dBi) ave. -2.49
Peak (dBi) (V) 2.67
Peak angle (deg) 100



Hori (dBi) ave. -6.91
Vert (dBi) ave. -4.79
H+V (dBi) ave. -2.71
Peak (dBi) (V) 3.11
Peak angle (deg) 85

Prepared by T. Murota

