

dBi Corporation
131 French Avenue
Winchester Kentucky 40391
tel 606-744-8695 fax 606-737-0747

Rotational measurements of Wireless One-wire Personal ibutton reader performed on 11/24/00. "Up" is with the ibutton socket pointed vertical. Note that the maximum difference with respect to axis and antenna polarization is 9 dB peak and 7 dB average. Note also that this unit is very low power and is more than 20 dB. below the FCC intentional radiator limit in all cases.

Ant Horiz	Meter(dB)	Cable loss	Ant. fact	Total	Limit
Up (Pk)	42.5	2.5	16.76	61.76	92.3
Side (Pk)	41	2.5	16.76	60.26	92.3
End (Pk)	40	2.5	16.76	59.26	92.3
Up (Av)	14	2.5	16.76	33.26	72.3
Side (Av)	11	2.5	16.76	30.26	72.3
End (Av)	8	2.5	16.76	27.26	72.3

Ant Vert	Meter(dB)	Cable loss	Ant. fact	Total	Limit
Up (Pk)	42	2.5	16.76	61.26	92.3
Side (Pk)	41.5	2.5	16.76	60.76	92.3
End (Pk)	49	2.5	16.76	68.26	92.3
Up (Av)	12	2.5	16.76	31.26	72.3
Side (Av)	12	2.5	16.76	31.26	72.3
End (Av)	15	2.5	16.76	34.26	72.3

Donald R. Bush