

Roger GPS, repeater budget calculator for NTIA regulations

	GPS carrier frequency, use code L1 or L2												Distance from Building	
	L1	L1 Values in light blue cells only can be edited												
	1575	MHz												ft
													45.72	m
													0.028	mi
													0.046	km
	Avg Receive Power North America Isotropic Antenna		Receiver + Antenna Gain 38	dB	Cable Loss	dB	Repeater Gain	dB	Repeater Antenna Gain	dB	Antenna Isotropic vs Dipole -2.15	dB	Free Space Loss	dB
			56	иь	-9.4	иь	٥	ив	20	иь	-2.15	иь	-09.0	иь
Level	-130	dBm	-92	dBm	-101.4	dBm	-93.4	dBm	-73.4	dBm	-75.6	dBm	-143.0 5.0E-18	dBm W
									Effective Radiated Power		Effective Isotropic Radiated Power		Repeated Signal Power @ distance	
													NTIA requires <	
													-140	dBm
													@ 100 ft	



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