

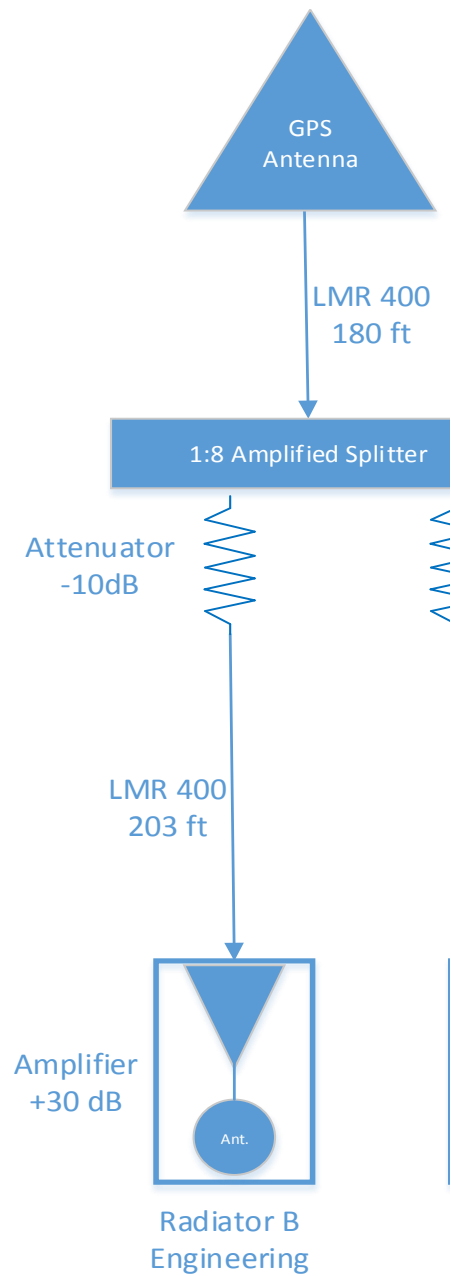
Link Budget Power Level (Radiator B - Engineering)						
	Distance (ft)	Gain/Loss dB	dBW	dBm	Watts	pW
Received Signal Level			-157	-127	2E-16	2E-10
Antenna Gain		34	-123	-93	5E-13	5E-07
LMR 400 Cable	180	-9.18	-132.18	-102.18	6.1E-14	6.1E-08
1:8 Amplified Splitter		14.5	-117.68	-87.68	1.7E-12	1.7E-06
Attenuator		-10	-127.68	-97.68	1.7E-13	1.7E-07
LMR 400 Cable	203	-10.353	-138.033	-108.03	1.6E-14	1.6E-08
Radiator Amplifier		30	-108.033	-78.033	1.6E-11	1.6E-05
Free Space Loss	100	-66.07601	-174.10901	-144.11	3.9E-18	3.9E-12

Link Budget Power Level (Radiator D - GPS Lab)						
	Distance (ft)	Gain/Loss dB	dBW	dBm	Watts	pW
Received Signal Level			-157	-127	2E-16	2E-10
Antenna Gain		34	-123	-93	5E-13	5E-07
LMR 400 Cable	180	-9.18	-132.18	-102.18	6.1E-14	6.1E-08
1:8 Amplified Splitter		14.5	-117.68	-87.68	1.7E-12	1.7E-06
Attenuator		-5	-122.68	-92.68	5.4E-13	5.4E-07
LMR 400 Cable	132	-6.732	-129.412	-99.412	1.1E-13	1.1E-07
Passive Splitter		-9.5	-138.912	-108.91	1.3E-14	1.3E-08
RG58 Cable	10	0.14	-138.772	-108.77	1.3E-14	1.3E-08
Radiator Amplifier		30	-108.772	-78.772	1.3E-11	1.3E-05
Free Space Loss	100	-66.07601	-174.84801	-144.85	3.3E-18	3.3E-12

Speed of light	299792458 m/s	LMR 400	
GPS Frequency	1575420000 Hz	freq (Mhz)	dB/100ft
Wavelength	0.190293673 meters	1500	5.1
meters/foot	0.3048		

Radiated Power Level
Received Power @ Unit Under Test

Radiated Power Level
Received Power @ Unit Under Test



+34dB Gain

