

Frequency (MHz)	1227.6000		1575.4200		1602.0000		1615.5000		1246.0000		1256.
	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element
GPS Signal											
Received power from GPS space segment	-130	-130	-130	-130	-131	-131	-131	-131	-131	-131	-131
pattern gain	3	-127	3	-127	3	-128	3	-128	3	-128	3
amplifier gain	40	-87	40	-87	40	-88	40	-88	40	-88	40
Transmission line loss to re-radiator antenna (estimated)	-6.7	-93.7	-7.6	-94.6	-7.7	-95.7	-7.7	-95.7	6.7	-81.3	-6.7
re-radiator amplifier gain (variable gain, may be configured lower, values from datasheet)	0	-93.7	0	-94.6	0	-95.7	0	-95.7	0	-81.3	0
antenna gain	3	-90.7	3	-91.6	3	-92.7	3	-92.7	3	-78.3	3
Free space path loss (FSPL) at 100 feet from Building (re-radiator positioned 30 feet inside from exterior wall, total free space path length 130 feet)	-55.6	-146.3	-55.6	-147.2	-55.8	-148.5	-55.9	-148.6	-53.6	-131.9	-53.7

Frequency (MHz)	6000	1598.0625		1605.3750		1242.9375		1248.6250		1575.4200	
	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)
GPS Signal Received power from GPS space segment	-131	-131	-131	-131	-131	-131	-131	-131	-131	-129	-129
pattern gain	-128	3	-128	3	-128	3	-128	3	-128	3	-126
amplifier gain	-88	40	-88	40	-88	40	-88	40	-88	40	-86
Transmission line loss to re-radiator antenna (estimated)	-94.7	-7.7	-95.7	-7.7	-95.7	-6.7	-94.7	-6.7	-94.7	-7.6	-93.6
re-radiator amplifier gain (variable gain, may be configured lower, values from datasheet)	-94.7	0	-95.7	0	-95.7	0	-94.7	0	-94.7	1	-92.6
antenna gain	-91.7	3	-92.7	3	-92.7	3	-91.7	3	-91.7	3	-89.6
Free space path loss (FSPL) at 100 feet from Building (re-radiator positioned 30 feet inside from exterior wall, total free space path length 130 feet)	-145.4	-55.8	-148.5	-55.8	-148.5	-53.6	-145.3	-53.6	-145.3	-55.64	-145.24

Frequency (MHz)	1278.7500		1191.7950		1176.4500		1207.1400	
	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)	Individual Element	Cumulative Total (dBm)
GPS Signal								
Received power from GPS space segment	-129	-129	-129	-129	-129	-129	-129	-129
pattern gain	3	-126	3	-126	3	-126	3	-126
amplifier gain	40	-86	40	-86	40	-86	40	-86
Transmission line loss to re-radiator antenna (estimated)	-6.8	-92.8	-6.5	-92.5	-6.5	-92.5	-6.6	-92.6
re-radiator amplifier gain (variable gain, may be configured lower, values from datasheet)	0	-92.8	0	-92.5	0	-92.5	0	-92.6
antenna gain	3	-89.8	3	-89.5	3	-89.5	3	-89.6
Free space path loss (FSPL) at 100 feet from Building (re-radiator positioned 30 feet inside from exterior wall, total free space path length 130 feet)	-53.8	-143.6	-53.21	-142.71	-53.1	-142.6	-53.3	-142.9