

L1 (1574.42 MHz) Link Analysis

Receive Signal:	-130.0 dBm
Receive Antenna & LNA Gain (L1L2-2GA)	+36.0 dB
Cable Loss (100' LMR-240)	-10.0 dB
GLI-Metro, GPS Smart Controller Input – (Range: -115 to -85dBm)	-104.0 dBm
GLI-Metro, GPS Smart Controller Output – (Range: -85 to -65dBm)	
Output Set to Minimum Requirement to cover test area, but no greater than:	-81.2 dBm (7.59pW)
Cable Loss	0.0 dB
Transmit Antenna Gain	+5.0 dBiC, max
Free Space Attenuation (L1 Freq)	-65.9 dB
Signal Level at 100' (30m) from Transmit Antenna	-142.1 dBm

L2 (1227.60 MHz) Link Analysis

Receive Signal:	-130.0 dBm
Receive Antenna & LNA Gain (L1L2-2GA)	+36.0 dB
Cable Loss (100' LMR-240)	-8.7 dB
GLI-Metro, GPS Smart Controller Input – (Range: -115 to -85dBm)	-102.7 dBm
GLI-Metro, GPS Smart Controller Output – (Range: -85 to -65dBm)	
Output Set to Minimum Requirement to cover test area, but no greater than:	-81.2 dBm (7.59pW)
Cable Loss	0.0 dB
Transmit Antenna Gain	+5.0 dBiC, max
Free Space Attenuation (L1 Freq)	-63.8 dB
Signal Level at 100' (30m) from Transmit Antenna	-140.0 dBm

The GPS Source model GLI-Metro GPS Smart Controller self monitors the output level to insure a constant signal level is transmitted. On installation, the GPS Smart Controller output will be set to provide a nominal signal level for the coverage area but not greater than a level resulting in the re-radiated GPS

signal being greater than -140 dBm at 30 meters (100 feet). Signal level will be set by a qualified technician.

The worst possible case output level is limited by the maximum -65 dBm output of the GPS Smart Controller and results in a re-radiated signal of -123.8dBm at 30 meters (100 feet). This assumes maximum antenna gain, input signal, minimum cable loss, and no obstruction.