

The antenna kitting options for model L2S signal booster were done for 3 Uplink Antenna kit options and 3 Downlink Antenna kit options. The order of the attached calculations is as follows:

Outside Antenna kit Options

Final Output Power Limited to 30 dBm EIRP in all Frequency Bands

Uplink Frequency(MHz)	824 MHz – 849 MHz	1850 MHz – 1910 MHz
Uplink Output Power(dBm)	17.00	16.00

1. Yagi 10dBi Antenna with 100' 400 N male Kit numbers: SGR-TX-200067-01

Uplink Frequency(MHz)	824 MHz – 849 MHz	1850 MHz – 1910 MHz
Antenna Gain (dBi)	10.0	10.0
Coax Cable Loss (dB)	2.06	2.74
Final Gain Less Loss (dB)	7.94	7.26
Final Output Power (dBm EIRP)	24.94	23.26

2. Yagi 8dBi Antenna with 100' 400 N male Kit numbers: XM-TDJ-800-01

Uplink Frequency(MHz)	824 MHz – 849 MHz	1850 MHz – 1910 MHz
Antenna Gain (dBi)	8.0	8.0
Coax Cable Loss (dB)	2.15	3.05
Final Gain Less Loss (dB)	5.85	4.95
Final Output Power (dBm EIRP)	22.85	20.95

3. Yagi 10dBi Antenna with 100' 400 N male Kit numbers: HXBGDV5W070809D0T0M-01

Uplink Frequency(MHz)	824 MHz – 849 MHz	1850 MHz – 1910 MHz
Antenna Gain (dBi)	10.0	10.0
Coax Cable Loss (dB)	5	5
Final Gain Less Loss (dB)	5.0	5.0
Final Output Power (dBm EIRP)	22.00	21.00

Inside Antenna kit Options

Final Output Power Limited to 17 dBm EIRP in all Frequency Bands

Downlink Frequency(MHz)	869 MHz – 894 MHz	1930 MHz – 1990 MHz
Uplink Output Power(dBm)	-6.00	-6.00

1. Yagi 10dBi Antenna with 100' 400 N male Kit numbers: SGR-TX-200067-02

Uplink Frequency(MHz)	869 MHz – 894 MHz	1930 MHz – 1990 MHz
Antenna Gain (dBi)	10.0	10.0
Coax Cable Loss (dB)	1.37	1.99
Final Gain Less Loss (dB)	8.63	8.01
Final Output Power (dBm EIRP)	2.63	2.01

2. Yagi 8dBi Antenna with 100' 400 N male Kit numbers: XM-TDJ-800-02

Uplink Frequency(MHz)	869 MHz – 894 MHz	1930 MHz – 1990 MHz
Antenna Gain (dBi)	8.0	8.0
Coax Cable Loss (dB)	1.51	2.23
Final Gain Less Loss (dB)	6.49	5.77
Final Output Power (dBm EIRP)	0.49	-0.23

3. Yagi 10dBi Antenna with 100' 400 N male Kit numbers: HXBGDV5W070809D0T0M-02

Uplink Frequency(MHz)	869 MHz – 894 MHz	1930 MHz – 1990 MHz
Antenna Gain (dBi)	10.0	10.0
Coax Cable Loss (dB)	5	5
Final Gain Less Loss (dB)	5.0	5.0
Final Output Power (dBm EIRP)	-1.00	-1.00