

EIRP Calculations

Flex2go

1 Vehicle Kit:

Vehicle Kit Component				
Outdoor Antenna KIT Antenna:CM200 Cable:CM174 -10FT 10Feet	Outdoor Antenna Gain		Outdoor Cable Loss	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	5	3	8.8	4.3
Indoor Patch Antenna KIT Antenna:CM110W Cable: CM174 -10FT 10Feet	Indoor Antenna Gain		Indoor Cable Loss	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	3	1.1	8.8	4.3

EIRP Calculations of Mobile booster Flex2go					
Pulse GSM					
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
UL 1850-1915	23.6	5	8.8	19.8	30
UL 824-849	22.0	3	4.3	20.7	30
Frequency	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1995	-4.7	3	8.8	-10.5	17
DL 869-894	-5.1	1.1	4.3	-8.3	17
4.1MHz AWGN					
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
UL 1850-1915	19.6	5	8.8	15.8	30
UL 824-849	20.0	3	4.3	18.7	30
Frequency	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1995	-6.6	3	8.8	-12.4	17
DL 869-894	-6.5	1.1	4.3	-9.7	17

2 Marine Kit:

Marine Kit Component				
Outdoor Antenna KIT Antenna:CM288W or Galaxy 5412-P Cable:CM240 -40FN 40Feet	Outdoor Antenna Gain		Outdoor Cable Loss	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	4	3	6.52	3.98
Indoor Panel Antenna KIT Antenna:CM248W Cable:CM240 -20FN 20Feet	Indoor Antenna Gain		Indoor Cable Loss	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	10	7	3.56	2.29

EIRP Calculations of Mobile booster Flex2go					
Pulse GSM					
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
UL 1850-1915	23.6	4	6.52	21.1	30
UL 824-849	22.0	3	3.98	21.0	30
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
DL 1930-1995	-4.7	10	3.56	1.7	17
DL 869-894	-5.1	7	2.29	-0.4	17
4.1MHz AWGN					
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
UL 1850-1915	19.6	4	6.52	17.1	30
UL 824-849	20.0	3	3.98	19.0	30
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
DL 1930-1995	-6.6	10	3.56	-0.2	17
DL 869-894	-6.5	7	2.29	-1.8	17

3 Desk top/RV kit:

Desk top/RV Kit Component				
Outdoor Antenna KIT Antenna:CM288W Cable:CM240 -40FN 40Feet	Outdoor Antenna Gain		Outdoor Cable Loss	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	4	3	6.52	3.98
Indoor Right Angle Antenna KIT Antenna:CM120W Cable: NO	Indoor Antenna Gain		Indoor Cable Loss(connector IL)	
	At 1900MHz(dBi)	At 800MHz(dBi)	At 1900MHz(dB)	At 800MHz(dB)
	3	1.2	0.3	0.3

EIRP Calculations of Mobile booster Flex2go					
Pulse GSM					
Frequency	Output Power (dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
UL 1850-1915	23.6	4	6.52	21.1	30
UL 824-849	22.0	3	3.98	21.0	30
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
DL 1930-1995	-4.7	3	0.3	-2.0	17
DL 869-894	-5.1	1.2	0.3	-4.2	17
4.1MHz AWGN					
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
UL 1850-1915	19.6	4	6.52	17.1	30
UL 824-849	20.0	3	3.98	19.0	30
Frequency	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP (dBm)	Limit (dBm)
DL 1930-1995	-6.6	3	0.3	-3.9	17
DL 869-894	-6.5	1.2	0.3	-5.6	17