

EIRP Calculations

1. Antenna kits

Fixed booster EZ five band					
Outdoor Antenna					
Outdoor Antenna	Outdoor Antenna Gain				
	At LTE-A and LTE-V (698-787MHz)(dBi)	At 800MHz(dBi)	At 1900MHz(dBi)	At 1700MHz(dBi)	At 2100MHz(dBi)
CM230W	10	10	10	10	10
CM288W	3	3	4	4	4
CM500W	4	6	7	7	8.5
MAX GAIN	10	10	10	10	10
Outdoor Cable					
Outdoor Cable	Outdoor Cable Loss				
	At LTE-A and LTE-V (698-787MHz)(dBi)	At 800MHz(dBi)	At 1900MHz(dBi)	At 1700MHz(dBi)	At 2100MHz(dBi)
CM240-40FN 40Feet	3.52	3.98	6.52	6.12	6.92
CM400-75NN 75Feet	4.22	4.41	6.17	5.8	6.54
MIN LOSS	3.52	3.98	6.17	5.8	6.54
Indoor Antenna					
Indoor Antenna	Indoor Antenna Gain				
	At LTE-A and LTE-V (698-787MHz)(dBi)	At 800MHz(dBi)	At 1900MHz(dBi)	At 1700MHz(dBi)	At 2100MHz(dBi)
CM222W	3	3	6	6	6
CM248W	7	7	10	10	10
CM302W	2.5	3	5	4	5
MAX GAIN	7	7	10	10	10
Indoor Cable					
Indoor Cable	Indoor Cable Loss				
	At LTE-A and LTE-V (698-787MHz)(dBi)	At 800MHz(dBi)	At 1900MHz(dBi)	At 1700MHz(dBi)	At 2100MHz(dBi)
CM240-20FN 20Feet	2.06	2.29	3.56	3.36	3.76
CM400-30NN 30Feet	2.05	2.12	2.83	2.68	2.98
CM240-50NN 50Feet	4.26	4.83	8	7.5	8.5
MIN LOSS	2.05	2.12	2.83	2.68	2.98

2. EIRP

EIRP Calculations of fixed booster EZ five band					
Pulse GSM					
Operation Frequency (MHz)	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
UL 1850-1910	19.5	10	6.17	23.3	30
UL 824-849	19.0	10	3.98	25.0	30
UL 698-716	21.7	10	3.52	28.1	30
UL 776-787	19.4	10	3.52	25.8	30
UL 1710-1755	20.4	10	5.8	24.6	30
Operation Frequency (MHz)	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1990	-12.8	10	2.83	-5.6	17
DL 869-894	-8.3	7	2.05	-3.3	17
DL 728-757	-9.0	7	2.05	-4.0	17
DL 2110-2155	-15.6	10	2.98	-8.5	17
4.1MHz AWGN					
Operation Frequency (MHz)	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
UL 1850-1910	19.4	10	6.17	23.2	30
UL 824-849	19.6	10	3.98	25.6	30
UL 698-716	20.8	10	3.52	27.3	30
UL 776-787	18.9	10	3.52	25.4	30
UL 1710-1755	19.7	10	5.8	23.9	30
Operation Frequency (MHz)	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1990	-12.7	10	2.83	-5.5	17
DL 869-894	-9.1	7	2.05	-4.1	17
DL 728-757	-8.8	7	2.05	-3.8	17
DL 2110-2155	-15.3	10	2.98	-8.3	17