

EIRP Calculations

Force-550

1 Antenna kits

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)
CM200	3	3	5	5	5
CM288W or Galaxy 5412-P	3	3	4	4	4
CM288W	3	3	4	4	4
MAX GAIN	3	3	5	5	5
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)
CM174-10FT 10Feet	3.8	4.3	8.8	6.98	8.96
CM240-40FN 40Feet	3.52	3.98	6.52	6.12	6.92
MIN LOSS	3.52	3.98	6.52	6.12	6.92
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)
CM110W	1.1	1.1	3	3	3
CM248W	7	7	10	10	10
CM120W	1.2	1.2	3	3	3
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)
CM174-10FT 10Feet	3.8	4.3	8.8	6.98	8.96
CM240-20FN 20Feet	2.06	2.29	3.56	3.36	3.76
MIN LOSS	2.06	2.29	3.56	3.36	3.76

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EIRP Calculations of Force-550					
Pulse GSM					
Operation Frequency (MHz)	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
UL 1850-1915	19.5	5	6.52	18.0	30
UL 824-849	17.7	3	3.98	16.7	30
UL 698-716	18.0	3	3.52	17.5	30
UL 776-787	20.1	3	3.52	19.5	30
UL 1710-1755	18.7	5	6.12	17.6	30
Operation Frequency (MHz)	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1995	-8.7	10	3.56	-2.3	17
DL 869-894	-9.2	7	2.06	-4.3	17
DL 728-757	-11.9	7	2.06	-7.0	17
DL 2110-2155	-9.6	10	3.76	-3.4	17
4.1MHz AWGN					
Operation Frequency (MHz)	Output Power(dBm)	Outdoor Antenna Gain(dBi)	Outdoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
UL 1850-1915	19.1	5	6.52	17.5	30
UL 824-849	17.5	3	3.98	16.5	30
UL 698-716	19.1	3	3.52	18.6	30
UL 776-787	19.7	3	3.52	19.2	30
UL 1710-1755	19.3	5	6.12	18.2	30
Operation Frequency (MHz)	Output Power(dBm)	Indoor Antenna Gain(dBi)	Indoor Cable Loss(dB)	EIRP(dBm)	Limit(dBm)
DL 1930-1995	-11.0	10	3.56	-4.5	17
DL 869-894	-10.3	7	2.06	-5.3	17
DL 728-757	-13.3	7	2.06	-8.4	17
DL 2110-2155	-12.5	10	3.76	-6.2	17