

## 850 MHz frequency band (GSM 850, FDD V)

Bands	Sub-Test	Frequency (MHz)	RF Output Power				Calculations to meet ERP limits					Calculations to meet MPE limits			
			Burst Average Power		Peak Power		ERP limit	EIRP limit	Antenna gain to meet ERP limits		MPE limits according to §1.1310	Duty cycle	Evaluation distance	Antenna gain to meet MPE limits	
			(dBm)	(W)	(dBm)	(W)	(W)	(W)	Numerical	(dBi)	(mW/cm <sup>2</sup> )	(%)	(cm)	Numerical	(dBi)
GSM 850	-----	824,2	31,96	1,570	32,12	1,629	7	11,48	7,31	8,63	0,55	12,50%	20	14,07	11,48
		836,4	32,14	1,637	32,21	1,663	7	11,48	7,01	8,45	0,56	12,50%	20	13,70	11,36
		848,8	32,22	1,667	32,31	1,702	7	11,48	6,89	8,37	0,57	12,50%	20	13,65	11,35
GPRS 850	4Down1Up	824,2	32,11	1,626	32,18	1,652	7	11,48	7,06	8,48	0,55	12,50%	20	13,59	11,33
		836,4	32,19	1,656	32,28	1,690	7	11,48	6,93	8,40	0,56	12,50%	20	13,54	11,31
		848,8	32,26	1,683	32,39	1,734	7	11,48	6,82	8,33	0,57	12,50%	20	13,52	11,31
	3Down2Up	824,2	31,99	1,581	32,16	1,644	7	11,48	7,26	8,60	0,55	25,00%	20	6,99	8,44
		836,4	32,17	1,648	32,25	1,679	7	11,48	6,97	8,42	0,56	25,00%	20	6,80	8,32
		848,8	32,21	1,663	32,34	1,714	7	11,48	6,90	8,38	0,57	25,00%	20	6,84	8,35

Maximum antenna gain for **850 MHz** frequency band: **8.32 dBi**

## 1900 MHz frequency band (PCS 1900, FDD II)

Bands	Sub-Test	Frequency (MHz)	RF Output Power				Calculations to meet EIRP limits				Calculations to meet MPE limits			
			Burst Average Power		Peak Power		EIRP limit	Antenna gain to meet EIRP limits		MPE limits according to §1.1310	Duty cycle	Evaluation distance	Antenna gain to meet MPE limits	
			(dBm)	(W)	(dBm)	(W)	(W)	Numerical	(dBi)	(mW/cm <sup>2</sup> )	(%)	(cm)	Numerical	(dBi)
GSM 1900	-----	1850,20	29,51	0,893	29,72	0,938	2	2,24	3,50	1,00	12,50%	20	45,02	16,53
		1880,00	29,63	0,918	29,79	0,953	2	2,18	3,38	1,00	12,50%	20	43,79	16,41
		1909,80	29,44	0,879	29,51	0,893	2	2,28	3,57	1,00	12,50%	20	45,75	16,60
GPRS 850	4Down1Up	1850,20	29,67	0,927	29,81	0,957	2	2,16	3,34	1,00	12,50%	20	43,39	16,37
		1880,00	29,65	0,923	29,79	0,953	2	2,17	3,36	1,00	12,50%	20	43,59	16,39
		1909,80	29,49	0,889	29,58	0,908	2	2,25	3,52	1,00	12,50%	20	45,22	16,55
	3Down2Up	1850,20	29,65	0,923	29,77	0,948	2	2,17	3,36	1,00	25,00%	20	21,79	13,38
		1880,00	29,64	0,920	29,75	0,944	2	2,17	3,37	1,00	25,00%	20	21,84	13,39
		1909,80	29,46	0,883	29,56	0,904	2	2,26	3,55	1,00	25,00%	20	22,77	13,57

Maximum antenna gain for **1900 MHz** frequency band: **3.34 dBi**