

Radiated Power - EIRP / ERP

In accordance with FCC **KDB 412172 D01 Determining ERP and EIRP v01** please find below our calculations for determining the ERP and EIRP for the combination of module and host device covered under the scope of this C2PC filing.

The maximum output powers from the tune-up procedure are:

	Band	Max. Output Power	
GSM/EDGE	GSM850	33.00 dBm	1.995 W
	GSM1900	30.00 dBm	1.000 W
WCDMA/HSDPA/HSUPA	Band V (850MHz)	24.00 dBm	0.251 W
	Band II (1900MHz)	24.00 dBm	0.251 W
LTE	Band 4	23.50 dBm	0.224 W
	Band 17	24.00 dBm	0.251 W

Remark: The WCDMA/HSDPA/HSUPA and LTE modes of this module used in the Host PC FZ-G1 is specially programmed and tuned to operate at a lower power setting than the original maximum power to ensure that the output power does not exceed the targets described in the SAR report.

The Antenna gain of the FZ-G1 host system is as follows;

GSM850/ WCDMA Band V: -1.12 dBi (-3.27 dBd)

GSM1900/ WCDMA Band II: 0.74 dBi

LTE Band 4: 0.74 dBi

LTE Band 17: -3.03 dBi (-5.18 dBd)

The ERP/EIRP values for the module in this host system can be calculated using option 2.1 of the KDB referenced above:

$$\text{ERP/EIRP} = P_T + G_T - L_C \text{ in this host are}$$

	ERP/EIRP	Conducted Power	Antenna Gain	ERP/EIRP	
GSM850	ERP	33.00 dBm	-3.27 dBd	29.73 dBm	0.940 W
GSM1900	EIRP	30.00 dBm	0.74 dBi	30.74 dBm	1.186 W
WCDMA Band V (850MHz)	ERP	24.00 dBm	-3.27 dBd	20.73 dBm	0.118 W
WCDMA Band II (1900MHz)	EIRP	24.00 dBm	0.74 dBi	24.74 dBm	0.298 W
LTE Band 4	EIRP	23.50 dBm	0.74 dBi	24.24 dBm	0.265 W
LTE Band 17	ERP	24.00 dBm	-5.18 dBd	18.82 dBm	0.076 W