# 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 conducted power from this C2pc filing per band are:

GSM/EDGE:
        GSM850: 33.0dBm/1.996W
        GSM1900: 29.9dBm/0.978W

WCDMA/HSDPA/HSUPA:
        Band V (850MHz): 24.96dBm / 0.314W
        Band II (1900MHz): 24.87dBm / 0.307W

LTE
        Band 4: 24.81dBm / 0.303W
        Band 17: 24.40dBm / 0.276W

The Antenna gain of the CF-C1 host system is as follows;
        GSM850/ WCDMA Band V : -2.48 dBi  (-4.63 dBd)
        GSM1900/ WCDMA Band II : -2.06 dBi
        Band 4: -0.81 dBi
        Band 17: -2.93 dBi (-5.08 dBd)

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

   $ERP/EIRP = P_T + G_T - L_C$ in this host are

- GSM850:  **ERP** = 33.0dBm – 4.63dBd = 28.37dBm ( 0.687W)
- GSM1900:  **EIRP** = 29.9dBm – 2.06dBi =  27.84dBm ( 0.609W)
- WCDMA  Band V (850MHz): **ERP** = 24.96dBm -4.63dBd = 20.33dBm ( 0.108W)
- WCDMA  Band II (1900MHz): **EIRP** = 24.87dBm – 2.06dBi = 22.81dBm (0.191W)
- LTE Band 4: **EIRP** = 24.81dBm – 0.81dBi =  24.00dBm ( 0.252W)
- LTE Band 17: **ERP** = 24.40dBm – 5.08dBd =  19.32dBm ( 0.086W)