

Radiated Power - EIRP

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

The Maximum conducted power from this filing per band are:

TD-CDMA

5MHz (2498.8 – 2687.2MHz): 24.41dBm / 0.276W

10MHz (2501.4 – 2684.6MHz): 24.64dBm / 0.291W

The gain of Permanently-attached antenna and external antenna of the CF-19 host system is as follows;

Permanently-attached antenna:

1.86 dBi

External antenna:

8.0 dBi

The 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

With Permanently-attached antenna:

- 5MHz (2498.8–2687.2MHz): **EIRP** = 24.41dBm + 1.86dBi = 26.27dBm (0.424 W)
- 10MHz(2501.4–2684.6MHz): **EIRP**= 24.64dBm + 1.86dBi = 26.50dBm (0.447 W)

With External antenna:

- 5MHz (2498.8–2687.2MHz): **EIRP** = 24.41dBm + 8.0dBi = 32.41dBm (1.742 W)
- 10MHz(2501.4–2684.6MHz): **EIRP**= 24.64dBm + 8.0dBi = 32.64dBm (1.837 W)