

Radiated Power - EIRP / ERP

In accordance with FCC **KDB 412172 D01 Determining ERP and EIRP v01r01** 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:

| Mode/band | Max Output power | |
|-------------------------------|------------------|---------|
| WCDMA Band II | 24.5 dBm | 0.282 W |
| WCDMA Band IV | 23.7 dBm | 0.234 W |
| WCDMA Band V | 24.5 dBm | 0.282 W |
| LTE B2 (1900MHz) | 24 dBm | 0.251 W |
| LTE B4 (1700MHz) | 24 dBm | 0.251 W |
| LTE B5 (850MHz) | 24 dBm | 0.251 W |
| LTE B7 (2600MHz) | 24 dBm | 0.251 W |
| LTE B12 (700MHz) | 24 dBm | 0.251 W |
| LTE B13 (750MHz) | 24 dBm | 0.251 W |
| LTE B14 (750MHz) | 24 dBm | 0.251 W |
| LTE B17 (700MHz) | 24 dBm | 0.251 W |
| LTE B25 (1900MHz) | 24 dBm | 0.251 W |
| LTE B26 (850MHz) | 24 dBm | 0.251 W |
| LTE B38 (2600MHz) | 24 dBm | 0.251 W |
| LTE B41 (2600MHz) | 24 dBm | 0.251 W |
| LTE B41 (2600MHz) DLCA enable | 23 dBm | 0.200 W |
| LTE B48 (3500MHz) | 18.3 dBm | 0.068 W |
| LTE B66 (1700MHz) | 24 dBm | 0.251 W |
| LTE B71 (600MHz) | 24 dBm | 0.251 W |
| NR n2 (1900MHz) | 24.5 dBm | 0.282 W |
| NR n5 (850MHz) | 24.5 dBm | 0.282 W |
| NR n41 (2600MHz) | 21.5 dBm | 0.141 W |
| NR n66 (1700MHz) | 23.5 dBm | 0.224 W |
| NR n71 (600MHz) | 24.5 dBm | 0.282 W |
| NR n77 (3700MHz) | 24.5 dBm | 0.282 W |

The Antenna gain of the FZ-G2 host system is as follows;

| | | | |
|--|-------|-----------|-------------|
| * LTE Band 71/ NR n71 (600MHz): | ..... | -0.94 dBi | (-3.09 dBd) |
| * LTE Band 12, 17 (700MHz): | ..... | -1.23 dBi | (-3.38 dBd) |
| * LTE Band 13 (750MHz): | ..... | -0.68 dBi | (-2.83 dBd) |
| * LTE Band 14 (750MHz): | ..... | -0.35 dBi | (-2.50 dBd) |
| * WCDMA Band V / LTE Band 5, 26 / NR n5 (850MHz): | ..... | 0.00 dBi | (-2.15 dBd) |
| * WCDMA Band IV / LTE Band 4, 66 / NR n66 (1700MHz): | .... | 2.47 dBi | |
| * WCDMA Band II /LTE Band 2, 25 / NR n2 (1900MHz): | .... | 2.75 dBi | |
| * LTE Band 7 (2600MHz): | ..... | 0.96 dBi | |
| * LTE Band 38, 41 / NR n41 (2600MHz): | ..... | 1.55 dBi | |
| * LTE Band 48/ (3500MHz): | ..... | 2.38 dBi | |
| * NR n77 (3700MHz): | ..... | 2.60 dBi | |

Note: LTE Band30 is disabled when the module is installed in the FZ-G2 host system at the factory.

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

| Mode/band | ERP/EIRP | Conducted Power | Antenna gain | ERP/EIRP | |
|----------------------------------|----------|-----------------|--------------|-----------|---------|
| WCDMA Band II (1900) | EIRP | 24.5 dBm | 2.75 dBi | 27.25 dBm | 0.531 W |
| WCDMA Band IV (1700) | EIRP | 23.7 dBm | 2.47 dBi | 26.17 dBm | 0.414 W |
| WCDMA Band V (850) | ERP | 24.5 dBm | -2.15 dBd | 22.35 dBm | 0.172 W |
| LTE B2 (1900MHz) | EIRP | 24 dBm | 2.75 dBi | 26.75 dBm | 0.473 W |
| LTE B4 (1700MHz) | EIRP | 24 dBm | 2.47 dBi | 26.47 dBm | 0.444 W |
| LTE B5 (850MHz) | ERP | 24 dBm | -2.15 dBd | 21.85 dBm | 0.153 W |
| LTE B7 (2500MHz) | EIRP | 24 dBm | 0.96 dBi | 24.96 dBm | 0.313 W |
| LTE B12 (700MHz) | ERP | 24 dBm | -3.38 dBd | 20.62 dBm | 0.115 W |
| LTE B13 (750MHz) | ERP | 24 dBm | -2.83 dBd | 21.17 dBm | 0.131 W |
| LTE B14 (750MHz) | ERP | 24 dBm | -2.50 dBd | 21.50 dBm | 0.141 W |
| LTE B17 (700MHz) | ERP | 24 dBm | -3.38 dBd | 20.62 dBm | 0.115 W |
| LTE B25 (1900MHz) | EIRP | 24 dBm | 2.75 dBi | 26.75 dBm | 0.473 W |
| LTE B26 (850MHz) | ERP | 24 dBm | -2.15 dBd | 21.85 dBm | 0.153 W |
| LTE B38 (2600MHz) | EIRP | 24 dBm | 1.55 dBi | 25.55 dBm | 0.359 W |
| LTE B41 (2600MHz) | EIRP | 24 dBm | 1.55 dBi | 25.55 dBm | 0.359 W |
| LTE B41 (2600MHz) DLCA enable | EIRP | 23 dBm | 1.55 dBi | 24.55 dBm | 0.285 W |
| LTE B48 (3500MHz) | EIRP | 18.3 dBm | 2.38 dBi | 20.68 dBm | 0.117 W |
| LTE B66 (1700MHz) | EIRP | 24 dBm | 2.47 dBi | 26.47 dBm | 0.444 W |
| LTE B71 (600MHz) | ERP | 24 dBm | -3.09 dBd | 20.91 dBm | 0.123 W |
| NR n2 (1900MHz) | EIRP | 24.5 dBm | 2.75 dBi | 27.25 dBm | 0.531 W |
| NR n5 (850MHz) | ERP | 24.5 dBm | -2.15 dBd | 22.35 dBm | 0.172 W |
| NR n41 (2600MHz) | EIRP | 21.5 dBm | 1.55 dBi | 23.05 dBm | 0.202 W |
| NR n66 (1700MHz) | EIRP | 23.5 dBm | 2.47 dBi | 25.97 dBm | 0.395 W |
| NR n71 (600MHz) | ERP | 24.5 dBm | -3.09 dBd | 21.41 dBm | 0.138 W |
| NR n77 (3500MHz) | EIRP | 24.5 dBm | 2.60 dBi | 27.10 dBm | 0.513 W |