



RF Exposure evaluation for mobile use

Model: **CONBOX-HIGH**

FCC ID: **T8GP114**

IC ID: **6434A-P114**

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	Power density (mW/cm^2)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Equation OET bulletin 65, page 18, edition 97-01:
$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

Where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna



Band	Mode	Frequency (MHz)	Output Power conducted- (dBm)	Output Power conducted- (mW)	FCC /IC Limit (mW/cm ²)	Maximum antenna gain to meet MPE limit (dbi)	Separation distance (cm)
850	GSM	836.2	34	2511.89	0.5575	3.4	20
1900	GSM	1850.2	34	2511.89	1.000	6.0	20
FDDII	UMTS	1850.0	26	398.11	1.000	11.0	20
FDDIV	UMTS	1710.0	26	398.11	1.000	11.0	20
FDDV	UMTS	824.0	26	398.11	0.5493	8.4	20
eFDD2	LTE	1850.0	25	316.23	0.5510	12.0	20
eFDD4	LTE	1710.0	25	316.23	1.000	12.0	20
eFDD5	LTE	824.0	25	316.23	0.5493	9.4	20
eFDD7	LTE	2500.0	25	316.23	1.000	12.0	20
eFDD13	LTE	777.0	25	316.23	0.5180	9.2	20
eFDD12	LTE	699.0	25	316.23	0.4660	8.7	20
eFDD66	LTE	1710.0	25	316.23	1.000	12.6	20
2.4GHz	WLAN	2462	12.6	18.20	1.000	24.41	20
5.0GHz	WLAN	5240	14.9	30.90	1.000	22.11	20
5.0GHz	WLAN	5825	11.5	89.13	1.000	25.51	20
2.4GHz	BT	2480	10.2	10.47	1.000	26.81	20
2.4GHz	BLE	2402	-1.7	0.68	1.000	38.71	20

Yours sincerely,

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