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/cm²)*
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/cm²)	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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