

Manufacturer: EUROTECH SpA

Name: Oscar Frau

Product: DG1014

Title: Project Handler

FCC ID: UKMDG1014

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power ^{4,5} dBm	Antenna	EIRP ¹ dBm	EIRP mW	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	2.1091 EIRP	2.1091 EIRP	PD/PD Limit	Worst PD/PD values to be considered
				Gain dBi							Limit mW	Margin dB		
Bluetooth ⁴	2402,0	100	0,79	2,5	3,29	2,134	20	0,0004245	1,000	33,72	5018	33,71	0,00042	0,00897
IEEE 802.11 b/g/n ⁴	2412,0	100	14,04	2,5	16,54	45,079	20	0,0089683	1,000	20,47	5018	20,47	0,00897	0,01145
IEEE 802.11 a/n/ac ⁴	5745,0	100	13,10	4,5	17,60	57,551	20	0,0114495	1,000	19,41	5018	19,41	0,01145	0,28006
GSM ⁵	673,0	100	26,06	2,1	28,16	655,2	20	0,130	1,000	8,85	5018	8,84	0,13035	0,26817
UMTS/LTE ⁵	1852,4	100	25,19	6,3	31,49	1407,7	20	0,280	1,000	5,53	5018	5,52	0,28006	0,26817
LTE ⁵	2505,0	100	25,00	6,3	31,30	1348,0	20	0,268	1,000	5,72	5018	5,71	0,26817	0,26817

FCC Co-Location = 0,30047 < 1

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)

²PD = EIRP / (4xπxD²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See FCC ID: UKMDG1014

⁵See FCC ID: XMR2022EM05G

2.1091 EIRP Limit

1.1307 (b)(3)(i)(B) exemption limit

1.5 GHz < f ≤ 6.0 GHz / 20 cm < d ≤ 40 cm

f	ERP _{20cm}	Pth = ERP _{20cm} Ireshold EII		EIRP	Margin
GHz	mW	mW	mW	mW	dB
2,402	3060	3060	5018	2,134	33,71
2,412	3060	3060	5018	45,079	20,5
5,745	3060	3060	5018	57,551	19,41
0,673	3060	3060	5018	655,2	8,84
1,852	3060	3060	5018	1407,7	5,52
2,505	3060	3060	5018	1348,0	5,71