

Manufacturer: EUROTECH SpA

Product: DG1014

FCC ID: UKMDG1014

Name: Oscar Frau

Title: Project Handler

Signature: 

MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	Power ^{4,5}	Antenna	EIRP ¹	EIRP	Distance	PD ²	PD Limit ³	Margin	2.1091 EIRP	2.1091 EIRP	PD/PD Limit	Worst PD/PD values to be considered
				Gain							Limit	Margin		
	MHz	%	dBm	dBi	dBm	mW	cm	mW/cm ²	mW/cm ²	dB	mW	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	
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	0,01145
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	
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	0,28006
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	
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