

Manufacturer: Eurotech S.p.A.

Name: Oscar Frau

Product: DYGATE-20-30

Title: Project handler

FCC ID: UKMDG2030

Signature:



MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	Power	Antenna		EIRP ¹	Distance		PD ²	PD Limit ³	Margin	2.1091 EIRP	2.1091 EIRP	PD/PD Limit	Worst PD/PD values to be considered
				Gain ^{10, 11}			D					Limit	Margin		
	MHz	%	dBm	dBi	dBm	mW	cm	mW/cm^2	mW/cm^2	dB	mW	dB			
BT ⁹	2402	100	11,76	1,70	13,46	22	20	0,004	1,000	23,55	N/A	N/A	0,00441	0,02284	
WiFi 2.4 GHz ⁶	2462	100	18,90	1,70	20,60	115	20	0,023	1,000	16,41	N/A	N/A	0,02284		
WiFi 5 GHz ⁷	5180	100	19,50	2,30	21,80	151	20	0,030	1,000	15,21	N/A	N/A	0,03011	0,03011	
WiFi 5 GHz ⁷	5320	100	19,20	2,30	21,50	141	20	0,028	1,000	15,51	N/A	N/A	0,02810		
WiFi 5 GHz ⁷	5500	100	19,00	2,30	21,30	135	20	0,027	1,000	15,71	N/A	N/A	0,02684		
WiFi 5 GHz ⁷	5825	100	18,10	2,30	20,40	110	20	0,022	1,000	16,61	N/A	N/A	0,02181		
GSM850 ⁸	824,2	100	25,95	1,71	27,66	583	20	0,116	0,549	6,75	2460	6,25	0,21125	0,21965	
WCDMA band IV ⁸	1712,4	100	27,00	3,43	30,43	1104	20	0,220	1,000	6,58	4920	6,49	0,21965		
LTE band 7 ⁸	2502,5	100	28,00	1,67	29,67	927	20	0,184	1,000	7,34	4920	7,25	0,18439		
FCC Co-Location =		0,27260	< 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

⁶WiFi 2.4 GHz: Test Report n. 392986-2TRFWL, p. 25

⁷WiFi 5 GHz: Test Report n. 392986-3TRFWL, p. 6, 91, 92

⁸4G (2G/3G fallback) EG25-G module: FCC ID: XMR201903EG25G, IC: 10224A-201903EG25G (the worst case for each band is listed in the table, referring to the RF exposure of the EG25-G)

⁹BT Eurotech DG2030 module: FCC ID: UKMDG2030, IC: 21442-DG2030

¹⁰Antenna 2.4/5 GHz: type 2J6302MP, gain shown on p.2 of the datasheet "2J6302MP.pdf"

¹¹Antenna 4G (2G/3G fallback): type GSA.8827.A.101111, gain shown on p.3 of the datasheet "GSA.8827.A.101111.pdf"