

Manufacturer: Eurotech S.p.A.

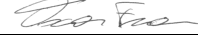
Name: Oscar Frau

Product: REGATE 10-14-35

Title: Project Handler

FCC ID: UKM-RG1014

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Antenna			EIRP ¹ mW	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	2.1091 EIRP	2.1091 EIRP	Worst PD/PD values to be considered
			Power dBm	Gain dBi	EIRP ¹ dBm						Limit	Margin	
BT ⁴	2480,0	100	0,8	2,5	3,30	2,1	20	0,0004	1,000	33,71	1260	27,70	0,00043
BLE ⁵	2440,0	100	-3,3	2,5	-0,80	0,8	20	0,0002	1,000	37,81	1260	31,80	0,00017
WiFi 2,4 GHz ⁶	2437,0	100	13,9	2,5	16,44	44,1	20	0,0088	1,000	20,57	1260	14,56	0,00876
WiFi 5 GHz ⁷	5745,0	100	13,1	4,6	17,70	58,9	20	0,0117	1,000	19,31	1260	13,30	0,01171
FDD 71 ⁸	663,0	100	25,0	0,4	25,40	346,7	20	0,0690	0,442	8,07	557	2,06	0,15607
FDD 12 ⁸	699,0	100	25,0	0,4	25,40	346,7	20	0,0690	0,466	8,30	557	2,06	0,14803
FDD 13 ⁸	777,0	100	25,0	0,4	25,40	346,7	20	0,0690	0,518	8,76	557	2,06	0,13317
FDD 14 ⁸	788,0	100	25,0	0,4	25,40	346,7	20	0,0690	0,525	8,82	557	2,06	0,13131
WCDMA B5 ⁹	826,4	100	25,0	0,4	25,40	346,7	20	0,0690	0,551	9,02	557	2,06	0,12521
FDD 5 ⁸	824,0	100	25,0	0,4	25,40	346,7	20	0,0690	0,549	9,01	557	2,06	0,12557
FDD 4 ⁸	1710,0	100	25,0	2,6	27,60	575,4	20	0,1145	1,000	9,41	1260	3,40	0,11448
FDD 6 ⁸	1710,0	100	25,0	2,6	27,60	575,4	20	0,1145	1,000	9,41	1260	3,40	0,11448
WCDMA B4 ⁹	1710,0	100	25,0	2,6	27,60	575,4	20	0,1145	1,000	9,41	1260	3,40	0,11448
WCDMA B2 ⁹	1850,0	100	25,0	2,6	27,60	575,4	20	0,1145	1,000	9,41	1260	3,40	0,11448
FDD 2 ⁸	1850,0	100	25,0	2,6	27,60	575,4	20	0,1145	1,000	9,41	1260	3,40	0,11448

FCC Co-Location = 0,17655 < 1

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

²PD = EIRP / (4πx²D²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See FCC ID: R17WE866C6; Report No: 2323ERM.005A1, p.79

⁵See FCC ID: R17WE866C6; Report No: 2323ERM.005A1, p.21

⁶See FCC ID: R17WE866C6; Report No: 2323ERM.005A1, p.162

⁷See FCC ID: R17WE866C6; Report No: 2840ERM.005A1, p.310

⁸See FCC ID: R17LE910CXNF; RF Exp. (Report No. 57536_LE910C4-NF)

Antenna gains (see the relevant datasheets): type ANT-DB1-RAF-RPS (BT/BLE/WiFi) and 2JW0124/2JW0124Z (Cellular)

2.1091 EIRP Limit

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

RF Source Frequency MHz	F MHz	R m	λ m	λ/2π m	R/(λ/2π)	Threshold ERP W	Threshold EIRP W	Threshold EIRP mW	EIRP mW	Margin dB
300-1500	663,0	0,20	0,452	0,0720	2,78	0,33946	0,557	557	346,7	2,06
1500-100000	2480,0	0,20	0,121	0,0193	10,4	0,76800	1,260	1260	2,1	27,78
	2440,0	0,20	0,123	0,0196	10,2	0,76800	1,260	1260	0,8	31,97
	2437,0	0,20	0,123	0,0196	10,2	0,76800	1,260	1260	44,1	14,56
	5745,0	0,20	0,052	0,0083	24,1	0,76800	1,260	1260	58,9	13,30
	1710,0	0,20	0,175	0,0279	7,16	0,76800	1,260	1260	575,4	3,40

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

0.3 GHz ≤ f ≤ 1.5 GHz 0.5 cm ≤ d ≤ 20 cm		f GHz	ERP _{20cm} mW	x	d cm	Pth mW	Threshold EIRP mW	EIRP mW	Margin dB
		1,5	3060	1,796	20	3060	5018		
0.3 GHz ≤ f ≤ 1.5 GHz 20 cm < d ≤ 40 cm		f GHz	ERP _{20cm} mW	Pth = ERP _{20cm} mW		Threshold EIRP mW		EIRP mW	Margin dB
		0,663	1352,52	1353		2218		346,7	8,1
1.5 GHz < f ≤ 6.0 GHz 0.5 cm ≤ d ≤ 20 cm		f GHz	ERP _{20cm} mW	x	d cm	Pth mW	Threshold EIRP mW		Margin dB
		6	3060	2,097	20	3060	5018		
1.5 GHz < f ≤ 6.0 GHz 20 cm < d ≤ 40 cm		f GHz	ERP _{20cm} mW	Pth = ERP _{20cm} mW		Threshold EIRP mW		EIRP mW	Margin dB
		2480,0	3060	3060		5018		2,1	33,8
		2440,0	3060	3060		5018		0,8	38,0
		2437,0	3060	3060		5018		44,1	20,6
		5745,0	3060	3060		5018		58,9	19,3
		1710,0	3060	3060		5018		575,4	9,4