

Manufacturer: TEXA S.p.A.

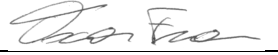
Name: Oscar Frau

Product: TMD MK5

Title: Project handler

FCC ID: T8R-TMDFPT

Signature:



MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	Antenna		EIRP ¹	EIRP	Distance		PD Limit ³	Margin	2.1091 EIRP	2.1091 EIRP	PD/PD Limit	Worst PD/PD values to be considered
			Power	Gain			D	PD ²			Limit	Margin		
	MHz	%	dBm	dBi	dBm	mW	cm	mW/cm^2	mW/cm^2	dB	mW	dB		
BT ⁶	2441	100	3,50	4	7,5	6	20	0,001	1,00	29,51	N/A	N/A	0,00112	0,00406
BLE ⁷	2480	100	9,10	4	13,1	20	20	0,004	1,00	23,91	N/A	N/A	0,00406	
GSM 850	825	100	23,97	0,5	24,5	280	20	0,056	0,55	9,95	2455	9,43	0,10124	
GSM 1900	1850	100	20,97	3,7	24,7	293	20	0,058	1,00	12,34	4910	12,24	0,05831	
LTE Band 2	1850	100	24,00	3,7	27,7	589	20	0,117	1,00	9,31	4910	9,21	0,11715	
LTE Band 4	1710	100	23,00	3,7	26,7	468	20	0,093	1,00	10,31	4910	10,21	0,09305	0,15019
LTE Band 5	825	100	24,00	0,5	24,5	282	20	0,056	0,55	9,92	2455	9,40	0,10195	
LTE Band 12	705	100	24,00	0,5	24,5	282	20	0,056	0,47	9,23	2455	9,40	0,11930	
LTE Band 13	780	100	24,00	0,5	24,5	282	20	0,056	0,52	9,67	2455	9,40	0,10783	
LTE Band 25	1850	100	25,00	3,7	28,7	741	20	0,147	1,00	8,31	4910	8,21	0,14748	
NB-IoT Band 2	1850	100	25,00	3,7	28,7	741	20	0,147	1,00	8,31	4910	8,21	0,14748	
NB-IoT Band 4	1710	100	25,00	3,7	28,7	741	20	0,147	1,00	8,31	4910	8,21	0,14748	
NB-IoT Band 5	825	100	25,00	0,5	25,5	355	20	0,071	0,55	8,92	2455	8,40	0,12834	
NB-IoT Band 12	705	100	25,00	0,5	25,5	355	20	0,071	0,47	8,23	2455	8,40	0,15019	
NB-IoT Band 13	780	100	25,00	0,5	25,5	355	20	0,071	0,52	8,67	2455	8,40	0,13575	
NB-IoT Band 25	1850	100	25,00	3,7	28,7	741	20	0,147	1,00	8,31	4910	8,21	0,14748	
FCC Co-Location =			0,15425	< 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

⁶Test Report n. 431857-2TRFWL, p. 45

⁷Test Report n. 431857-1TRFWL, p. 29

GSM, LTE RF module: Quectel BG96, FCC ID: XMR201707BG96; IC: 10224A-201709BG96 (see MPE calculation "5 - R2007A0435-M1 BG96 BG96MINI FCC")

Antenna BT/BLE: Ceramic Chip Ant., type CW3043, gain 4 dBi (see datasheet "PULSE-CW3043")

Antenna GSM, LTE: Molex SMD, type 1462000011, gain 0.5 dBi (698 - 960 MHz) and 3.7 dBi (1710 - 2700 MHz) (see operational description (p.3) and antenna datasheet (p.4))