

Manufacturer: Tierra S.p.A.

Name: Oscar Frau

Product: AM35XT

Title: Project Handler

FCC ID: 2A6VC-AM35

Signature: 

MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	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
			Power	Gain ⁶								Limit	Margin		
	MHz	%	dBm	dBi	dBm	mW	cm	mW/cm^2	mW/cm^2	dB	mW	dB			
BT ⁴	2441,0	100	6,74	2,7	9,44	8,8	20	0,002	1,000	27,58	1260	21,57	0,00175	0,01418	
WiFi ⁴	2412,0	100	15,83	2,7	18,53	71,3	20	0,014	1,000	18,48	1260	12,47	0,01418		
WCDMA B2 ⁵	1907,6	100	23,50	5,5	29,00	794,3	20	0,158	1,000	8,01	1260	2,00	0,15803		
WCDMA B4 ⁵	1752,6	100	23,50	5,5	29,00	794,3	20	0,158	1,000	8,01	1260	2,00	0,15803		
WCDMA B5 ⁵	846,6	100	23,50	1,5	25,00	316,2	20	0,063	0,564	9,53	711	3,52	0,11147	0,15803	
LTE B2 ⁵	1909,3	100	23,50	5,5	29,00	794,3	20	0,158	1,000	8,01	1260	2,00	0,15803		
LTE B4 ⁵	1754,3	100	23,50	5,5	29,00	794,3	20	0,158	1,000	8,01	1260	2,00	0,15803		
LTE B12 ⁵	715,3	100	23,50	1,5	25,00	316,2	20	0,063	0,477	8,80	601	2,79	0,13193		
FCC Co-Location =		0,17221	< 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: 2A6VC-AM35, CHID of the FCC ID: XMR201703FC20; Report No: 16050028-FCC-H-V1, §5.2. Worst case for each band has been considered.

⁵See FCC ID: XMR201606EC21A (CHID of FCC ID: XMR201605EC25A); RF Exposure Report No. R1805A0226-M5V1. Worst case for each band has been considered.

⁶Antennas:

WiFi/BLE antenna: Molex, type 211960001

Cellular antenna: Pulse electronics, type W3796

2.1091 EIRP Limit

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

RF Source						Threshold	Threshold	Threshold		
Frequency	F	R	λ	λ/2π	R/(λ/2π)	ERP	EIRP	EIRP	EIRP	Margin
MHz	MHz	m	m	m		W	W	mW	mW	dB
300-1500	846,6	0,20	0,354	0,0564	3,55	0,433	0,711	711	316,2	3,52
	715,3	0,20	0,419	0,0668	3,00	0,366	0,601	601	316,2	2,79
	2412,0	0,20	0,124	0,0198	10,1	0,768	1,260	1260	71,3	12,47
1500-100000	2441,0	0,20	0,123	0,0196	10,2	0,768	1,260	1260	8,8	21,57
	1909,3	0,20	0,157	0,0250	8,00	0,768	1,260	1260	794,3	2,00
	1752,6	0,20	0,171	0,0272	7,34	0,768	1,260	1260	794,3	2,00