

Maximum Permissible Exposure (MPE)

- FCCID : **A3LSMTI6021**
- Product name : **Internet Phone**
- Model name : **SMT-i6021, SMT-i6011**
- Device category : **Mobile device**

For maximum permissible exposure(MPE) evaluation of mobile device, the calculation is:

$$S = P G / (4 R^2 \pi) , \text{ mW/cm}^2$$

S = Maximum Power density
P = Maximum power with tolerance
G = Numeric power gain of the antenna
R = Distance from transmitting antenna

RF Function	Frequency Range (MHz)	Antenna gain (dBi)			Max. Target Power (dBm)	MPE (mW/cm ²)
		ANT 1	ANT 2	Directional		
Bluetooth	2402 ~ 2480	2.77	N/A	N/A	6	0.002392
802.11b	2412 ~ 2462	2.77	N/A	N/A	17.5	0.033553
802.11g	2412 ~ 2462	2.77	N/A	N/A	10.5	0.006695
802.11n(HT20) – 1TX	2412 ~ 2462	2.77	N/A	N/A	10.5	0.006695
802.11a – 1TX	5180 ~ 5240	3.64	N/A	N/A	14.5	0.023053
	5260 ~ 5320	3.64				
	5500 ~ 5700	4.05				
	5745 ~ 5825	5.02				
802.11n(HT20) – 1TX	5180 ~ 5240	3.64	N/A	N/A	13.5	0.016320
	5260 ~ 5320	3.64				
	5500 ~ 5700	4.05				
	5745 ~ 5825	5.02				
802.11n(HT40) – 1TX	5190 ~ 5230	3.64	N/A	N/A	12.5	0.012964
	5270 ~ 5310	3.64				
	5510 ~ 5670	4.05				
	5755 ~ 5795	5.02				

For simultaneous transmission, the calculation is;

Calculated MPE₁ + Calculated MPE₂ + ... + Calculated MPE_N

This device does not support the simultaneous transmission.

According to above calculation, this device complies with FCC 1.1310 limit.