

Maximum Permissible Exposure (MPE)

- FCCID : **A3LWEH720B**
- Product name : **Wi-Fi Transmitter**
- Model name : **WEH720B**
- 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)	Power Tolerance (dB)	MPE (mW/cm ²)
		ANT 1	ANT 2	Directional			
802.11b/g	2412 ~ 2462	2.20	1.90	N/A	16.00	± 2.5	0.023374
802.11n(HT20) – 1TX	2412 ~ 2462	2.20	1.90	N/A	16.00	± 2.5	0.023374
802.11n(HT20) – 2TX	2412 ~ 2462	N/A	N/A	5.062	13.50	± 2.5	<u>0.025406</u>
802.11n(HT40) – 1TX	2422 ~ 2452	2.20	1.90	N/A	11.25	± 2.5	0.007829
802.11n(HT40) – 2TX		N/A	N/A	5.062	8.75	± 2.5	0.008510
802.11a – 1TX	5180 ~ 5240 5260 ~ 5320 5500 ~ 5700 5745 ~ 5825	2.50 2.60 2.80 2.00	2.20 2.80 2.50 2.80	N/A	15.50	± 2.5	<u>0.022322</u>
802.11(HT20) – 1TX 802.11ac(VHT20) – 1TX	5180 ~ 5240 5260 ~ 5320 5500 ~ 5700 5745 ~ 5825	2.50 2.60 2.80 2.00	2.20 2.80 2.50 2.80	N/A	15.50	± 2.5	0.022322
802.11(HT20) – 2TX 802.11ac(VHT20) – 2TX	5180 ~ 5240 5260 ~ 5320 5500 ~ 5700 5745 ~ 5825	N/A	N/A	5.362 5.711 5.662 5.420	11.50	± 2.5	0.017176
802.11n(HT40) – 1TX 802.11ac(VHT40) – 1TX	5190 ~ 5230 5270 ~ 5310 5510 ~ 5670 5755 ~ 5795	2.50 2.60 2.80 2.00	2.20 2.80 2.50 2.80	N/A	15.50	± 2.5	0.022322
802.11n(HT40) – 2TX 802.11ac(VHT40) – 2TX	5190 ~ 5230 5270 ~ 5310 5510 ~ 5670 5755 ~ 5795	N/A	N/A	5.362 5.711 5.662 5.420	11.50	± 2.5	0.017176
802.11ac(VHT80) – 1TX	5210 5290 5530 5775	2.50 2.60 2.80 2.00	2.20 2.80 2.50 2.80	N/A	13.50	± 2.5	0.014084
802.11ac(VHT80) – 2TX	5210 5290 5530 5775	N/A	N/A	5.362 5.711 5.662 5.420	10.50	± 2.5	0.013644

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