

RF Exposure Information

Calculation of Max. output power

Mode	Channel	Frequency	Peak Conducted Output Power(P_t)	Antenna Gain(G)	Max. output power (P_t)
		(MHz)	(mW)	(dBi)	(mW)
802.11b	Low	2412	7.16	1	9.01
	Mid	2437	7.16	1	9.01
	High	2462	7.31	1	9.20
802.11g	Low	2412	16.67	1	20.99
	Mid	2437	16.60	1	20.90
	High	2462	17.02	1	21.43
802.11n HT20	Low	2412	33.04	1	41.59
	Mid	2437	35.32	1	44.47
	High	2462	35.04	1	44.11
802.11n HT40	Low	2422	33.69	1	42.41
	Mid	2437	33.85	1	42.61
	High	2452	37.83	1	47.63

Note: $P_t = P_1 \cdot 10^{G/10}$

Calculation of power density

Since the user's manual specifies a minimum distance between user and device of at least 20cm, the device is classified as a mobile device.

FCC part 1.1310 limits the power density for uncontrolled exposure. The power density P_d calculated from the maximum output power P_t and the distance d , between the transmitting antenna and the closest person, can be calculated using:

$$P_d = P_t / 4 \pi d^2$$

Frequency (MHz)	Max. output power P_t (mW)	P_d at 20cm (mW/cm^2)	MPE limit (mW/cm^2)	Distance where P_d =limit(cm)
2412-2462	47.63	0.01	1	1.94

As shown in the calculations above, the power density at 20cm from the device is below the maximum permitted level for uncontrolled exposure.