

Table 14: Disclosure Table

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件	×	○	×	×	○	○
电路模块	×	○	×	×	○	○
电缆及电缆组件	×	○	×	×	○	○
塑料和聚合物部件	○	○	○	○	○	×
○： 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。 ×： 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。						

6.3 EXPOSURE SEPARATION DISTANCES

To protect from overexposure to RF energy, install Canopy radios so as to provide and maintain the minimum separation distances from all persons shown in Table 15.

Table 15: Exposure Separation Distances

Module Type	Separation Distance from Persons
PMP 400/430 AP or SM or PTP 200 BH	At least 20 cm (approx 8 in)
Canopy Module (for comparison)	At least 20 cm (approx 8 in)

Section 6.3.1 and Table 16 give details and discussion of the associated calculations.

6.3.1 Details of Exposure Separation Distances Calculations and Power Compliance Margins

Limits and guidelines for RF exposure come from:

- US FCC limits for the general population. See the FCC web site at <http://www.fcc.gov>, and the policies, guidelines, and requirements in Part 1 of Title 47 of the Code of Federal Regulations, as well as the guidelines and suggestions for evaluating compliance in FCC OET Bulletin 65.
- Health Canada limits for the general population. See Safety Code 6 on the Health Canada web site at **Error! Hyperlink reference not valid..**
- ICNIRP (International Commission on Non-Ionizing Radiation Protection) guidelines for the general public. See the ICNIRP web site at <http://www.icnirp.de/> and

Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields.

The applicable power density exposure limits from the documents referenced above are

- 10 W/m² for RF energy in the 5.4-GHz frequency bands.

Peak power density in the far field of a radio frequency point source is calculated as follows:

$$S = \frac{P \cdot G}{4 \pi d^2}$$

where
 S = power density in W/m²
 P = RMS transmit power capability of the radio, in W
 G = total Tx gain as a factor, converted from dB
 d = distance from point source, in m

Rearranging terms to solve for distance yields

$$d = \sqrt{\frac{P \cdot G}{4 \pi S}}$$

Table 16 shows calculated minimum separation distances d , recommended distances and resulting power compliance margins for each frequency band and antenna combination.

Table 16: Calculated Exposure Distances and Power Compliance Margins

Frequency Band	Antenna	Variable			d (calculated)	Recommended Separation Distance	Power Compliance Margin
		P	G	S			
5.4 / 5.8 GHz OFDM	Integrated, 17 dBi	0.05 W (10 dBm)	50 (17 dB)	10 W/m ²	6 cm	20 cm (8 in)	10
	Connected, 17 dBi	0.05 W (10 dBm)	50 (17 dB)	10 W/m ²	6 cm	20 cm (8 in)	10
4.9 GHz OFDM	Integrated, 17 dBi	0.063 W (18 dBm)	40 (16 dB)	10 W/m ²	14 cm	20 cm (8 in)	2
	Connected, 17 dBi	0.063 W (18 dBm)	40 (16 dB)	10 W/m ²	14 cm	20 cm (8 in)	2

The “Recommended Distances” are chosen to give significant compliance margin in all cases. They are also chosen so that an OFDM module has the same exposure distance as a Canopy module, to simplify communicating and heeding exposure distances in the field.

These are conservative distances:

- They are along the beam direction (the direction of greatest energy). Exposure to the sides and back of the module will be significantly less.
- They meet sustained exposure limits for the general population (not just short term occupational exposure limits), with considerable margin.

- The calculated compliance distance d is overestimated because the far-field equation models the antenna as a point source and neglects the physical dimension of the antenna.

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