

Maximum Permissible Exposure Worksheet

FCC ID: LDKIW3702

IC: 2461B-IW3702

Product ID: IW3702-2E-UXX9

IW3702-4E-UXX9

Note 1: The AIR-ANT-2547V-N and the AIR-ANT2547VG-N are the same except for color and are the new antennas for this c2pc.

Note 2: Worst case conducted power includes manufacturing tolerance.

Note 3: Power Density is calculated at 20cm.

Note 4: MIMO antenna gain calculated with beam forming.

Note 5: $1\text{mW}/\text{cm}^2$ (FCC) = $10\text{W}/\text{m}^2$ (IC)

New antenna being added per this c2pc

Maximum Permissible Exposure Worksheet							
Dual Band, Indoor/Outdoor Omni(Grey, White)							
AIR-ANT-2547V-N, AIR-ANT2547VG-N							
	Antenna Gain (dBi)	Worst Case Power RF Conducted (dBm)	Tx Paths	EIRP (dBm)	Power Density (mW/cm²)	MPE Limit (mW/cm²) (at 20cm)	MPE Compliance Distance (cm)
2.4Ghz	4.0	17.0	1.0	21.0	0.03	1	3.16
2.4Ghz (MIMO)	10.0	23.0	4.0	33.0	0.4	1	12.6
5Ghz	7.0	17.0	1.0	24.0	0.05	1	4.47
5Ghz (MIMO)	13.0	21.0	4.0	34.0	0.5	1	14.13

Dual-Band Omni, Indoor Only

AIR-ANT2524V4C-R

	Antenna Gain (dBi)	Worst Case Power RF Conducted (dBm)	Tx Paths	EIRP (dBm)	Power Density (mW/cm²)	MPE Limit (mW/cm²) (at 20cm)	MPE Compliance Distance (cm)
2.4Ghz	2	17	1	19.0	0.02	1	2.51
2.4Ghz (MIMO)	8.0	23	4	31.0	0.25	1	10.01

5Ghz	4	17	1	21.0	0.03	1	3.16
5Ghz (MIMO)	10.0	23	4	33.0	0.4	1	12.6

Dual-Band Omni

AIR-ANT2544V4M-R

	Antenna Gain (dBi)	Worst Case Power RF Conducted (dBm)	Tx Paths	EIRP (dBm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²) (at 20cm)	MPE Compliance Distance (cm)
2.4Ghz	4	17	1	21.0	0.03	1	3.16
2.4Ghz (MIMO)	10.0	23	4	33.0	0.4	1	12.6
5Ghz	4	17	1	21.0	0.03	1	3.16
5Ghz (MIMO)	10.0	23	4	33.0	0.4	1	12.6

Dual-Band Cross-Polo

AIR-ANT2566P4W-R

	Antenna Gain (dBi)	Worst Case Power RF Conducted (dBm)	Tx Paths	EIRP (dBm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²) (at 20cm)	MPE Compliance Distance (cm)
2.4Ghz	6	17	1	23.0	0.04	1	3.98
2.4Ghz (MIMO)	12.0	23	4	35.0	0.63	1	15.86
5Ghz	6	17	1	23.0	0.04	1	3.98
5Ghz (MIMO)	12.0	23	4	35.0	0.63	1	15.86

Dual-Band Cross-Pole Directional

AIR-ANT2513P4M-N

	Antenna Gain (dBi)	Worst Case Power RF Conducted (dBm)	Tx Paths	EIRP (dBm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²) (at 20cm)	MPE Compliance Distance (cm)
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2.4Ghz	13	17	1	30.0	0.2	1	8.92
2.4Ghz (MIMO)	19.0	17	4	36.0	0.79	1	17.79
5Ghz	13	17	1	30.0	0.2	1	8.92
5Ghz (MIMO)	16.0	22.2	4	38.2	1.31	1	22.92

Note: 5Ghz MIMO and 13dBi dual dipole antenna uses measured conducted power output.

The product getting started guide states that use of greater than 10 dBi gain antenna requires a minimum separation of 23cm.