

RF Safety Compliance

Product: Wireless LAN with FCC ID: IMRWLPC24

Ref:

1. FCC Part 15, sub-clause 15.247 (b) (4)
2. FCC OET Bulletin 65, Edition 97-01
3. FCC Supplement C to OET Bulletin 65, edition 97-01

Ref No	Antenna Type	Specified Antenna Gain (dBi)	Minimum Cable losses (dB)	Total Antenna Gain (dBi)	Maximum RF output power at antenna terminal (dBm)	Total EIRP (dBm (mW))	MPE distance (cm) Note 1&2
01	AOU24-DI-24	23.5	2.9	20.6	15	35.6 (3,631)	17.0
02	AOU24-WA-12-A	12	2.9	9.1	15	24.1 (257)	4.5
03	AOU24-WA-12-B	12	2.9	9.1	15	24.1 (257)	4.5
04	AOU24-OD-10	10	2.9	7.1	15	22.1 (162)	3.6
05	AOU24-OD-55-B	5.0	3.3	1.7	15	16.7 (47)	2.0
06	LXE 155845-0001	6.0	1.0	5.0	15	20.0 (100)	2.8
07	LXE 155846-0001	3	1.0	2.0	15	17.0 (50)	2.0
08	LXE 153180-0001	2.2	1.0	1.2	15	16.2 (42)	1.8
09	LXE 480429-0400	2.2	1.0	1.2	15	16.2 (42)	1.8

Notes

1. MPE distance figures are based on a conservative “worse case” prediction, i.e. using formula $S=EIRP/(4\pi R^2)$ and no calculation for duty factor. In practice the minimum distance will be much shorter. (Ref. 2)
2. The minimum MPE distance has been calculated for the maximum allowed Power Density (S) limit of 1.0 mW/cm² in the Frequency range 1500-100,000 MHz for uncontrolled environments (Ref. 2).
3. For the outdoor antennae (Ref no 01 thru 05) the following statement will be put in the product manuals:
“ Caution: Exposure to Radio Frequency radiation. Antennae shall be mounted in such a manner to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation “.

Note that an MPE of 20 cm is indicated to cover possible future antennae.

4. For the indoor antenna (Ref no 06 thru 09) the following statement will be put in the product manuals:
“CAUTION: Exposure to Radio Frequency radiation. Antennae shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limits.”