

MPE Estimate, For FDAP 2.4GHz DSSS Radio

NOTE: The devices covered by this estimate are fixed installation only and professional installation is required to comply with certification agency and legal requirements.

FDAP DSSS Radio FCC ID: S57 - 51306533
FDAP DSSS Radio IC ID: 573I - 51306533

$$P_{app} = (P_{xmit} \cdot G_{linear}) / 4 \cdot \pi \cdot d^2$$

$$G_{linear} = \text{antilog}(G_{dbi} / 10)$$

Application	Antenna Type	Antenna Part No.	Transmit Frequency	Max Peak Conducted Output Power	Antenna Gain	Minimum Antenna Cable Loss	Power Density @ 20 cm	General Population Exposure Limit from 1.1310	Ratio of Power Density to the Exposure Limit
			(MHz)	(mW)	(dBi)	(dB)	(mW/cm ²)	(mW/cm ²)	
Integral	Omni	PacWireless OD24M-5 Honeywell 51506534-101	2,405 - 2,475	58.7	5	0	0.037	1.00	0.036929
Integral	Omni	SMARTANT SAA04-051000 Honeywell 51506534-101	2,405 - 2,475	58.7	5	0	0.037	1.00	0.036929
Integral	Omni	SMARTANT HON04-052160 Honeywell 51506534-100	2,405 - 2,475	58.7	5	0	0.037	1.00	0.036929
Integral	Omni	HUBER + SUHNER 1324.17.0047	2,405 - 2,475	58.7	6	0	0.046	1.00	0.046491
Remote	Omni	Hyperlink HGV-2409U Honeywell 50018414-001	2,405 - 2,475	58.7	8	0.9	0.060	1.00	0.059892
Remote	Sector 120 deg.	Hyperlink HG2414P-120	2,405 - 2,475	58.7	14	0.9	0.238	1.00	0.238434
Remote	Right Hand Circular Polarized Patch	Hyperlink HG2409PCR-NF	2,405 - 2,475	58.7	8	0.9	0.060	1.00	0.059892
Remote	Left Hand Circular Polarized Patch	Hyperlink HG2409PCL-NF	2,405 - 2,475	58.7	8	0.9	0.060	1.00	0.059892

Overall Worst Case Ratio of Power Density to the Exposure Limit:

0.238434

RF Safety Statement:

To comply with FCC's and Industry Canada's RF exposure requirements, the following antenna installation and device operating configurations must be satisfied.

- Remote **Point-to-Multi-Point** antenna(s) for this unit must be fixed and mounted on outdoor permanent structures with a separation distance between the antenna(s) of greater than 20cm and a separation distance of at least 20cm from all persons.
- Furthermore, when using integral antenna(s) the Multinode unit must not be co-located with any other antenna or transmitter device and have a separation distance of at least 20cm from all persons.