



Excellence in Compliance Testing

Certification Exhibit

FCC ID: HSW-XDM2510

IC: 4492A-XDM2510

FCC Rule Part: 15.247

IC Radio Standards Specification: RSS-210

ACS Report Number: 11-0034.W06.11.A

Manufacturer: RFM/Cirronet
Model: XDM2510HP, XDM2510HC

RF Exposure

General Information:

Applicant: RFM / Cirronet
 ACS Project: 11-0034
 Environment: General Population/Uncontrolled Exposure

MPE Calculation – Mobile Exposure Conditions

Antenna Description(s):
 12 dBi Monopole, RFM/Cirronet, PN: - OMNI2412
 12 dBi Multi-Element Patch, RFM/Cirronet, PN: 800485

Operating Parameters:
 Maximum Transmitter Conducted Power 8.90 dBm, 7.76 mW
 Maximum System EIRP 20.90 dBm, 123.0 mW

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

- S = power density (in appropriate units, e.g. mW/cm²)
- P = power input to the antenna (in appropriate units, e.g., mW)
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2405	8.9	1.00	7.76	12	15.849	20	0.024

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.