



Excellence in Compliance Testing

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## **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/cm<sup>2</sup>) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)  
 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.