



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: HSW-DNT90
IC: 4492A-DNT90**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210**

ACS Report Number: 10-0314.W06.11.A

Manufacturer: RFM/Cirronet
Model: DNT90C, DNT90P

RF Exposure

General Information:

Applicant: RFM/Cirronet
 ACS Project: 10-0314
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Description(s):

RFM RWA092R Omnidirectional Dipole Antenna, 2dBi
 RFM OMNI095 Omnidirectional Dipole Antenna, 5dBi
 RFM YAGI099 Directional Antenna, 6.1dBi

Maximum Antenna Gain: 6.1dBi

Maximum Transmitter Conducted Power: 21.76dBm, 149.97mW

Maximum System EIRP: 27.86dBm, 610.94mW

Exposure Conditions: Greater than 20 centimeters

MPE Calculation

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)
915.24	21.76	0.61	149.97	6.1	4.074	20	0.122

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.