



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: HSW-DNT500P
IC: 4492A-DNT500P**

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

ACS Report Number: 08-0316 - 15C

**Manufacturer: Cirronet Inc.
Model: DNT500P**

RF Exposure

General Information:

Applicant: Cirronet Inc.
 ACS Project: 08-0316
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information - DSS:

Antenna Type: ¼ wave Monopole
 Antenna Gain: 2.1dBi
 Maximum Transmitter Conducted Power: 27.67 dBm
 Maximum System EIRP: 29.77 dBm, 948 mW
 Exposure Conditions: Greater than 20 centimeters

Technical Information - DTS:

Antenna Type: ¼ wave Omni-directional
 Antenna Gain: 2.1 dBi
 Maximum Transmitter Conducted Power: 19.3 dBm
 Maximum System EIRP: 21.4 dBm, 138 mW
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

Note: MPE calculations were performed using the highest output power from all modes of operation.

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)

Table 1: MPE Calculations

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)
902.75	27.67	0.60	584.79	2.1	1.622	20	0.189

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.