Excellence in Compliance Testing

Certification Exhibit

FCC ID: HSW-DNT900
IC: 4492A-DNT900

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

ACS Report Number: 08-0361 - 15C

Manufacturer: Cirronet, Inc.
Model: DNT900C, DNT900P

RF Exposure

General Information:
Applicant: Cirronet, Inc.
ACS Project: 08-0361
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information DTS:
Antenna Type: Yagi
Antenna Gain: 6 dBi
Maximum Transmitter Conducted Power: 17.53dBm
Maximum System EIRP: 23.53 dBm, 230.7 mW
Exposure Conditions: Greater than 20 centimeters

Technical Information DSS:
Antenna Type: Yagi
Antenna Gain: 6 dBi
Maximum Transmitter Conducted Power: 29.72dBm
Maximum System EIRP: 35.72 dBm, 3733 mW
Exposure Conditions: Greater than 20 centimeters

MPE Calculation
The Power Density (mW/cm^2) 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)**
915.25	17.53	0.61	56.62	6	3.981	20	0.045
902.75	29.72	0.60	937.56	6	3.981	23	0.561

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 23 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.