

**FCC Part 15.247 Certification**  
**Test Report**

**Frequency Hopping Spread  
Spectrum Transceiver  
Modular Approval**

**FCC ID: HSW-910M**

**FCC Rule Part: 15.247**

**ACS Report Number: 04-0132-15C**

**Manufacturer: Cirronet, Inc.  
Equipment Type: Transceiver  
Model: WIT910**

**RF Exposure Information**

**General Information:**

Applicant: Cirronet, Inc.  
 ACS Project: 04-0132  
 FCC ID: HSW-910M  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Yagi  
 Antenna Gain: 8.5dB  
 Transmitter Conducted Power: 27.567dBm  
 Maximum System EIRP: 36.07dBm  
 Operating Configuration: Module to be installed in Mobile or Fixed mount host devices only.  
 Exposure Conditions: Greater than 23 centimeters

**MPE Calculation**

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P_x \times G}}{d} \qquad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	Radio Power (dBm)	Radio Power (W)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	MPE Distance (cm)
914.28	27.56	0.57108	8.5	7.08	22.98

**Installation Guidelines**

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

“RF Exposure (Intentional Radiators Only)

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of (23cm).”

**Conclusion**

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