

Certification Exhibit

FCC ID: HSW-WSN802G IC: 4492A-WSN802G

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

ACS Report Number: 09-0120 - 15C

Manufacturer: **RFM / Cirronet Inc.** Model(s): **WSN802GC, WSN802GP**

RF Exposure

General Information:

Applicant:	RFM / Cirronet Inc.
ACS Project:	09-0120
Device Category:	Mobile
Environment:	General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Antenna Gain: Maximum Transmitter Conducted Power: Maximum System EIRP: Exposure Conditions: Dipole, Patch 9dBi Dipole, 12dBi Patch 10.18dBm, 10.42mW 22.18dBm, 165.2 mW 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)	
2462	10.18	1.00	10.42	12	15.849	20	0.033	

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.