

Certification Exhibit

**FCC ID: HSW-Z2430A
IC: 4492A-Z2430A**

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

ACS Report Number: 08-0059

**Manufacturer: Cirronet, Inc.
Model: ZMN2430A**

RF Exposure

General Information:

Applicant: Cirronet, Inc.
ACS Project: 08-0059
FCC ID: HSW-Z2430A
Device Category: Portable
Environment: General Population/Uncontrolled Exposure

Technical Information 2400 MHz

Antenna Type: Surface Mount Chip
Antenna Gain: 0dBi
Transmitter Radiated Power: -1.28dBm
Maximum System EIRP: -1.28dBm
Exposure Conditions: Portable

Portable Exposure Conditions

The Power Threshold for 'General Population' portable designation without SAR testing is: (based on Oct 2005 TCB workshop PPT slide)

$(60 / F_{\text{GHz}})$ mW for distances < 2.5 cm

For the 2.4 GHz frequency band, this results in a limit of **25 mW**.

Note that we use the more restrictive "General Population" limit in this case even though the individuals using this product will certainly be aware of its function and would qualify under the 'occupational' category.

Given the maximum transmit duty cycle, the average transmitted power of a ZMN2430A remote can be calculated as:

Maximum Pout = **1 mW** (-1.3 dBm nominal)

Maximum Antenna Gain = **0 dBi** (for portable use)

Maximum Transmit Duty cycle (per above) = **0.084**

Pave (Source-based average) = $0.001 * 0.084 = .084 \text{ mW}$

Conclusion

The ZMN2430A meets the MPE limits for a 'Portable' device operating in the 'General Population'.