



Friday, October 08, 2004

Dear Application Examiner

Regarding Part 15 Unlicensed Modular Transmitter Approval, the following requirements called out in FCC Public Notice DA 00-1407 are observed:

1. The WIT2450M has its own RF shielding.
2. The WIT2450M modular transmitter has buffered modulation/data inputs to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.
3. The WIT2450M employs on board power supply regulation to the transmitter portion of the module, utilizing IC U12 within the module.
4. The WIT2450M employs a MMCX connector. According to FCC Public Notice, DA 00-2225, the MMCX qualifies as a unique antenna coupler.
5. The WIT2450M was tested in a stand-alone configuration.
6. The WIT2450M has a label with the FCC ID: HSW-2450
7. The WIT2450M complies with FCC 15.247 for Frequency Hopping Spread Spectrum Operation. An Integration Guide is provided for every module sold. This guide instructs the integrator in the proper operation of the device. The text in the guide specifies FCC Part 15 compliance:
8. The use of the WIT2450M in any application where the antenna is 20 cm or less distance to the body for mobile antennas and 2 m or less distance to the body for fixed antennas is not allowed. This is specified in the Integration Guide previous to the Table of Contents. The text follows:

### **FCC s MPE Requirements**

*Information to user/installer regarding FCC s Maximum Permissible Exposure (MPE) limits.*

*Notice to users/installers using the 24 dBi parabolic dish antenna in conjunction with all Cirronet RF products.*

*FCC rules limit the use of this antenna, when connected to Cirronet RF products for **point-to-point applications only**. It is the responsibility of the installer to ensure that the system is prohibited from being used in point-to-multipoint applications, omni-directional applications, and applications where there are multiple co-located **intentional radiators transmitting the same information**. Any other mode of operation using this antenna is forbidden.*

**Notice to users/installers using the following fixed antennas, with Cirronet RF products:**

<i>Andrews 24dBi parabolic dish Andrews 18dBi parabolic dish Hyperlink Technologies 24dBi Parabolic Dish</i>	<i>The field strength radiated by any one of these antennas, when connected to Cirronet RF products, may exceed FCC mandated RF exposure limits. FCC rules require professional installation of these antennas in such a way that the general public will not be closer than 2 m from the radiating aperture of any of these antennas. End users of these systems must also be informed that RF exposure limits may be exceeded if personnel come closer than 2 m to the apertures of any of these antennas.</i>
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**Notice to users/installers using the following mobile antennas, with Cirronet RF products:**

<i>Digital Wireless Corp 3 dBi patch Mobile Mark 6dBi omni-directional, Mobile Mark 9dBi omni-directional, Mobile Mark 9dBi Corner Reflector Mobile Mobile Mark 14dBi Corner Reflector MaxRad 5dBi whip, MaxRad 5dBi Magnetic Mount whip Cirronet 6dBi Patch antenna, Cirronet 12dBi Patch antenna, Ace 2dBi dipole, Cushcraft 15dBi Yagi, Mobile Mark 2.5 dBi Vehicle Mount Stub</i>	<i>FCC rules require installation of these antennas in such a way that the general public will not be closer than 20 cm from the radiating aperture of any of these antennas. End users of these systems must also be informed that RF exposure limits may be exceeded if personnel come closer than 20 cm to the apertures of any of these antennas.</i>
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