

FCC ID: PLBWHISP

**Part 15 Unlicensed Modular Transmitter Approval Justification
per DA 00-1407, released: June 26, 2000**

requirement	reference
1 The modular transmitter must have its own RF shielding.	Relevant emission requirements are met without additional shielding Enclosure is metal PCMCIA format. See external photos.
2 The modular transmitter must have buffered modulation/data inputs	All inputs to the modules are buffered through logic or microprocessor inputs. See schematic diagrams.
3 The modular transmitter must have its own power supply regulation.	All power lines derived from the host device are regulated before energizing other circuits internal to the EUT. See schematic diagrams.
4 The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The transmitter and its antennas are professionally installed. See Attestation and instruction manual.
5 The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing.	EUT was tested in an open-frame PC testbed affording no additional shielding. See description in Test Report and Modular Test Photos.
6 The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	The EUT carries an FCC ID label whose artwork and label position are clearly indicated; see FCC ID Label exhibit. The FCC ID Label is visible when installed, extending beyond outer edge of PCMCIA slot.
7 The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	The EUT complies with all relevant requirements of 15.247, when tested with each of 4 intended antennas, in accordance with installation instructions. The EUT was tested at its maximum data rate. See Test Report and User Manual.
8 The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).	RF output is 100 mW, in a mobile application. RF exposure evaluation confirms that MPE limits are readily met when the EUT is installed in accordance with the User Manual and not co-located with another transmitter. User precautions are provided in the User Manual to provide 20 cm separation from the EUT and antenna(s).