



4/12/2000

## **JUSTIFICATION OF MODULAR APPROVAL**

FCC ID: I28MD-TRCV-9CMHZ is a modular low power radio transceiver designed to operate and FCC Rules Part 15.249. The following steps have been taken to insure that I28MD-TRCV-9CMHZ (referred to below as "the module") meets the FCC requirements for a modular approval:

- 1) All electronic components used on the module are on one side of the printed circuit board and are completely covered by metal shielding. There is an internal ground plane in the circuit board itself to complete the shielding. Only the connectors are exposed.
- 2) The TXDATA input is buffered on the module itself. Input voltage variations on TXDATA will not effect the modulation or the transmitter output power.
- 3) The module has it's own on-board 3-volt regulator. All RF circuitry operates from this 3 volts.
- 4) The antenna connector used on the module has only one manufacturer and is not readily available. We have used the same connector on previous modular approvals and the FCC has considered it a non-standard connector. In addition, the module will only be used in devices with internal antennas of the type specified in the application. These internal antennas are not user serviceable or user replaceable. Therefore the antenna system meets the requirements of Section 15.203.
- 5) The module was tested in a stand-alone configuration using three different antennas.
- 6) Each module will be labeled with the FCC ID# and warning message as shown on the AA15431-1 drawing which is included with this application.