



FCC ID:OCTOEM-MSR1  
EXHIBIT 4d  
DECLARATION of  
MODULE CRITERIA

### **OCTOEM-MSR1 CONFORMANCE WITH FCC MODULE CRITERIA**

1. The antenna coupling for the module has a unique fitting via directly soldered leads.
2. There is no facility for an external modulation / data source on the module. The source of modulation data is the on-board microprocessor, U4, whose output is buffered and limited by devices Q4, C36, R64, C33, Q5, U6, C24, R19 and C67 to prevent over-modulation of the transmitted signal.
3. The power supply is regulated on board by the devices U10 (a boost converter), and the linear regulators U2, U5 and U25, together with their associated components.
4. All critical transmitter and receiver circuits, such as the crystal oscillator, power amplifier, mixer, IF stage and demodulator are all shielded with tin plated copper shields. In addition, the printed circuit board has separate, continuous ground and power planes throughout.
5. The module has been tested and found to comply with FCC regulations regarding mains borne emissions; the results are enclosed with this application. During these tests, the module was powered from the 110V mains via a simple, linear power supply (Radio Shack AC Adapter, Cat. No. 273-1662), which was set to 4.5V output.