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NXR-MO Request for Modular Approval

It is requested that the NXR-MO radio board be approved as a **modular** device in accordance with FCC Public Notice DA 00-1407. AMX intends to use the NXR-MO module in its line of remote control products. As such AMX declares the following to be true:

1. The NXR-MO must have its own RF shielding. This shielding is an integral part of the transceiver chip as well as the PWB.
2. The NXR-MO transceiver chip has buffered modulation/data inputs.
3. The NXR-MO has its own power supply regulation. In addition the EM250 transceiver chip has its own power supply regulation.
4. The NXR-MO has an integral antenna etched on the PWB.
5. The NXR-MO was tested in a stand-alone configuration using a development “debug” board. The module was not mounted inside any other device during testing. The length of I/O and DC power lines was configured to be worst-case (1.5 meters) for the purposes of testing. AC power line emissions were tested using an off-the-shelf power adapter. No ferrites or emissions suppression device was used for testing. All support equipment used during testing was un-modified.
6. The NXR-MO will have the FCC ID number etched on the PWB. In addition the device in which the NXR-MO is installed will display a label containing the wording “Contains Transmitter Module FCC ID: CWU-NXR-MO”
7. The NXR-MO complies with all of the applicable requirements on CFR 47, Part 15, Subpart C.
8. RF Exposure concerns are addressed in that the maximum rf output of the module is fixed at +4 dBm and the integral antenna gain is fixed at 0 dBi. Using a worst-case exposure model, the resulting exposure levels are found to be 0.8 mW/cm^2 , at a distance of 0.5 cm from the user. The module is intended to be installed in a remote device where the minimum separation distance is $> 2 \text{ cm}$.