



AVNERA

May 2, 2010

Subject: Original certification of the NS-RB1 wireless audio sender/receiver product

Reference: FCC ID ATMUPT1WL

To whom it may concern:

Avnera Corporation submits documentation (under separate cover) in support of FCC certification of the NS-RB1 wireless audio sender/receiver product. This device has been tested and is classified as a mobile device per FCC Part 2.1091.

The NS-RB1 wireless audio sender/receiver product is optimized for the transmission of wireless CD-quality streaming digital audio information to a companion listener device in the form of either a second NS-RB1 or a device containing a compatible modular transceiver using one of the Avnera AVMD7500-family products; the expected transmission distance is in excess of 30 meters.

The NS-RB1 will be used and marketed under the Insignia brand name as an accessory to the Insignia NS-R5101AHD-A AVR system. It will also be marketed by Onkyo under the model name UP-T1WL. The two products will be electrically *identical*, including all aspects of the radio; the ONLY differences between the two units will be the labels (containing the appropriate model numbers) and a single internal resistor option used to identify the unit to the host system, whether Insignia or Onkyo. Both model units will bear the same FCC and Industry Canada grant numbers, as shown at the top of this form. Note that the certification test documentation refers to the device under test as "IRT" which is the in-house designation for the hardware since the final production model numbers had not been assigned at the time the testing was performed. Note also that the designations "AVMD7540-SWA4" and "AVMD7540" are used interchangeably to designate the radio module used in the NS-RB1, both in the certification application documentation as well as the certification test reports.

The transmission protocol is proprietary; the protocol supports up to six bi-directional, stereo, audio channels in addition to data transfer for link management. The NS-RB1 radio utilizes a 2.4-2.5GHz ISM-band transceiver and is therefore classified as an intentional emitter under FCC Part 15.247.

Respectfully submitted on behalf of Onkyo Corporation, Osaka, Japan, by

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