



AVNERA

April 22, 2008

Subject: Original certification of the Avnera AVMD7212 family of modular transmitters

References: FCC ID V3CAVMD7F12A and IC: 7853A-AVMD7F12A

To whom it may concern:

Avnera Corporation submits documentation (under separate cover) in support of FCC and Industry Canada certification of the AVMD7212 family of modular transmitter products. This device has been tested and is classified as a portable device per FCC Part 2.1093.

The Avnera AVMD7212 family of wireless modules is optimized for the reception of wireless CD-quality streaming digital audio information transmitted by a companion AVMD7211 sender (the subject of a co-pending certification application), over distances of up to 30 meters. The modules are based on Avnera's AV7212 integrated wireless audio transceiver IC, and include all necessary components except an audio output transducer and the necessary power supply; optional configurations allow for differing mounting schemes (pin header or SMT), and high- and low-power RF output capabilities. The AVMD7212 and AVMD7112 families are available with two factory-set output power settings based on the use (or non-use) of an external PA. The end user will not be able to vary the output power. As part of the multipath mitigation strategy, the modules use a pair of identical antennas oriented at 90 degrees to one another; only one antenna is used at any given time, and that antenna serves both transmit and receive functions.

The transmission protocol is proprietary; in addition to the forward channel for streaming audio, the protocol supports bi-directional data transfer for link management as well as a medium-fidelity microphone back channel for gaming and headset applications. As such, even though the AVMD7212 modules are optimized for wireless *reception* they contain a 2.4-2.5GHz ISM-band transceiver and are therefore classified as intentional emitters under FCC Part 15.247:2006 and Industry Canada RSS-210:2007 regulations.

Respectfully submitted,

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