Information about the Applicant

Grantee (Company Name)	Avnera Corporation
FCC Contact Person	Fredrick Weiss
Address	16505 NW Bethany Court, Suite 100
City, State, Zip	Beaverton, OR 97006
Job Number	AVNE0032
Model	AVMD7500
FCC ID	V3CAVMD7500A
Agent	Northwest EMC
Approval Type	Original
Equipment Class	DTS Digital Transmission System
Rule Part	15.247

Overview

The module is the heart of a multi-source/multi-destination high-quality wireless audio distribution system. The module can operate as either the source end (\\\"Arbiter\\\") or destination end (\\\"Client\\\") based on configuration firmware; the RF performance of the module in either configuration is the same. The heart of the module is the Avnera AV7500 custom IC which contains the audio I/O and baseband signal processing functions, RF transceiver and signal synthesizer, and system control processor. The system can support up to 12 16b/48kHz audio channels that can be configured as mono or stereo transport paths; alternatively, the system can be set up to handle 4 24b/96kHz HD channels). In addition, the over-the-air (OTA) protocol provides bandwidth for link management as well as customer system data such as volume control. The module provides 8 I2S digital audio ports which are configurable as either inputs or outputs to/from system audio sources. The wireless link uses a 16MHz-wide OFDM spectrum operating in the 2.4-2.5GHz ISM band; the transmit spectrum may be centered on 2412MHz, 2438MHz, or 2462MHz, the choice being based on continuous monitoring of the spectrum for the lowest level of interference.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature

9/12/2008

Dean Ghizzone, TCB Committee