

Information about the Applicant	
Company Name	Medea Design Group Inc., aka Music Sciences
Grantee	Donald Moses
Address	1590 Murphy Pkwy
City, State, Zip	Eagen, MN 55122
Job Number	MUSI0007
Model	Model 3000A-R
FCC ID	TFA3000A
Agent	Northwest EMC
Approval Type	Original
Equipment Class	DXX Part 15, Low Power Communication Device Transmitter
Rule Part	15.249

Overview

This device transmits multiple digital audio channels in one scrambled digital audio data stream by means of FSK modulation on a 24.16GHz RF signal, point-to-point in one direction. The device has only one operating mode set at the factory, using FSK modulation at a fixed data rate of 72Mbps.

The power level is fixed at the factory and may use two different antennas:

1. horn antenna: 104.7 dBuV/m @ 3m; 0.008854 Watts EIRP, 17 dBi gain. (Tested to 15.249a)
2. parabolic dish antenna: 125.5 dBuV/m @ 3m; 1.064 Watts EIRP, with at least 33dBi gain and/or main lobe beamwidth not to exceed 3.5 degrees. (Tested to 15.249b)

Supply voltage required: 18 to 24VDC and 100 mA provided via Power over Ethernet.

Recommendation

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

Signature

Dave Tolman, TCB Committee
6/20/2007