



**Intelligent
Media
Technologies**



Delivering Network Based Audio-Video-Data Products Since 1988

DSP2210, DSP2212 Product Data Sheet

Introduction

The DSP2210 and DSP2212 are two zone, self-contained audio processing systems for Speech Privacy, Line and Mic Level Paging, and Background Music Reproduction. These models are additions to the SoundMaskIt Series of Products, including DSP8807 units.

Both units include I/O processing, enhanced audio DSP controlled from a Software application through a Mini-USB Port, Class "D" output amplification, and transformers to provide 70.7Vrms speaker output drive at 25W/zone.

Additionally, the DSP2212 has a Network Port used for control of the unit and/or distribution of Paging Messages and Background Music between network enabled units in the SoundMaskIt Series. This model uses the emerging IEEE802.1AS Audio-Video Bridging protocol for Paging and BGM across the Ethernet LAN. The DSP2212 is compatible with the Network port on DSP8807 units.

Features

- ❖ Stand-Alone (DSP2210) or Networked (DSP2212) operation
- ❖ 2 channels of random pink noise – non repeating up to 215 hours
- ❖ 2 outputs of 25 Watt Digital Class "D" Amplification
- ❖ 2 independent Noise outputs with full 1/3 octave equalization on each
- ❖ 2 music source inputs – mixed to mono
- ❖ Non-volatile memory for system settings – up to 10 years retention
- ❖ IEEE802.1AS AVB (Audio-Video Bridge) Interface for easy and time-aligned networking of multiple SoundMaskIt Systems (DSP2212 and DSP8807)
- ❖ AVB Interface allows for campus wide paging via an Ethernet LAN (DSP2212 and DSP8807)
- ❖ Full function Application Software suite to setup and tune zones according to facility needs
- ❖ Functional control via a Front Panel Rotary Encoder and Alpha-Numeric LCD Display
- ❖ 1RU tall by 10" deep unit
- ❖ Worldwide Agency Approvals

DSP2210, DSP2212 Product Data Sheet (Cont)

Specifications

Power Supply

Mains Input Voltage	90V - 264V (AC)
Main Frequency	47Hz - 63Hz
Efficiency	83%
AC Current	1.9A - 115VAC 1.1A - 230VAC
Inrush Current	Cold Start 18A - 115VAC Cold Start 36A - 230VAC
Regulatory Approvals	UL60950-1, TUV EN60950-1 Approved

System Inputs

Music Inputs (x2, RCA)	2Vrms max
Music Input Impedance	20k Ω
Mic Input (x1, 3 pin Phoenix)	+30dB \leftrightarrow +60dB Gain
Mic Input Sensitivity	250mV
Mini-USB (System Setup and Control)	Standard Connector
RJ45 (Ethernet LAN)	Cat5e/Cat6

System Outputs

Zone Outputs (x2, 2 pin Phoenix) - Class 2 Wiring	70.7Vrms Output
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System Performance

Resolution	24 bit
Sample Rate	48kHz
Frequency Response	80Hz - 20kHz \pm 3dB
THD-N (1kHz)	Full Power <1% @ 10W <0.01% @ 1W <0.004%
Signal to Noise Ratio (A-Weighted)	>100dB
Inter-Channel Crosstalk	>82dB

Warning:

*The data provided in this document is subject to change.
All specifications are correct at the time of publishing.*