



**Intelligent
Media
Technologies**



Delivering Network Based Audio-Video-Data Products Since 1988

DSP8807 Product Data Sheet

Introduction

The DSP8807 is an eight zone, self-contained audio processing system for Speech Privacy, Telco, Line and Mic Level Paging, and Background Music Reproduction. This model uses the emerging IEEE802.1AS Audio-Video Bridging protocol for network Paging Functions and BGM across the Ethernet LAN.

The unit includes I/O processing, enhanced audio DSP controlled from a Software application through an RJ45 Ethernet Port, Class "D" output amplification, and transformers to provide 70.7Vrms speaker output drive at 50W/zone.

Additionally, the DSP8807 Network Port is used to control the unit as well as setting up and initiating Paging Messages and Background Music between network enabled units in the SoundMaskIt Series. The DSP8807 is compatible with the Network port on DSP2212 units.

Features

- ❖ Networked operation
- ❖ 8 channels of random pink noise – non repeating up to 215 hours
- ❖ 8 outputs of 50 Watt Digital Class "D" Amplification
- ❖ 8 independent Noise outputs with full 1/3 octave equalization on each
- ❖ 4 Line Level + 1 Mic + Analog Telco inputs for Paging and BGM distribution
- ❖ 8 Line Level outputs
- ❖ 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)
- ❖ 8 Zones of Ambient Mic sensing to automatically adjust levels
- ❖ Full function Application Software suite to setup and tune zones according to facility needs
- ❖ 2RU tall by 14" deep unit
- ❖ Worldwide Agency Approvals

DSP8807 Product Data Sheet (Cont)

Specifications

Power Supply

Mains Input Voltage	90V - 264V (AC)
Main Frequency	47Hz - 63Hz
Efficiency	83%
AC Current	8A - 115VAC 5A - 230VAC
Inrush Current	Cold Start 18A - 115VAC Cold Start 36A - 230VAC
Regulatory Approvals	UL60950-1, TUV EN60950-1 Approved

System Inputs

Line Inputs (x4, RCA)	2Vrms max
Line Input Impedance	20k Ω
Mic Input (x1, 3 pin Phoenix)	+30dB \leftrightarrow +60dB Gain
Mic Input Sensitivity	250mV
Telco Input	Analog Tip/Ring
Contact Closure (x4, 2 pin Phoenix)	Dry Contact Normally Open
RJ45 (x1, Ethernet LAN + AVB)	Cat5e/Cat6
RJ45 (x8, Ambient Mics)	Cat5e/Cat6

System Outputs

Zone Outputs (x8, 2 pin Phoenix) - Class 2 Wiring	70.7Vrms Output
Line Outputs (x8, 2 pin Phoenix)	

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.*