

## PRODUCT DESCRIPTION

The DS3002 is designed to provide sound masking, paging and music functions for centralized and networked sound masking systems. Each DS3002 provides four independent sound masking generators, each having 1/3 octave band equalization, adjustable high pass and low pass filters. Additionally, two balanced line level inputs, two balanced line level outputs and a matrix mixer facilitate configuring any mix of incoming signals with any of the sound masking generators and then routed to any of the outputs. Input processing includes per channel level control, equalization and configurable "soft-knee" compression. Output processing includes per channel level control for both analog and network audio. This feature provides unique functionality for use in traditional 70v. centralized systems, networked addressable systems or systems combining both approaches.



## FEATURES

- Four sound masking generators with 1/3 octave band EQ, high and low pass filters
- Two balanced inputs with level controls, equalizers and compressors
- Two balanced outputs with level control
- Matrix mixer allows any combination of inputs and sound masking to be routed to any of the balanced outputs, or to the network audio.
- CobraNet™ digital audio network ready on all inputs and outputs
- ETL listed UL60065

## TECHNICAL SPECIFICATIONS

Type	2x2 Sound Masking Generator
Sound Masking Frequency Response	100 Hz to 10kHz
Music/Paging Frequency Response	20 Hz to 20 kHz
User Adjustable Masking Equalization	Yes 1/3 Octave Bands 125Hz to 10kHz
User Adjustable Audio Equalization	Yes (Inputs 1 thru 6)
Non Correlated Masking Sources	4
Masking Zones	Up to 2
Audio Inputs (Stereo or Mono)	2 - Mono
Audio Input Level	Line Level
Audio Input Impedance	20 kΩ balanced 10 kΩ unbalanced
Audio Input Connector	Captive Screw Terminal (Balanced / Unbalanced)
Emergency Mute Function	Optional via Software
Emergency Mute Connector	DS-CP8200
Audio Outputs (Stereo or Mono)	2 - Mono
Audio Output Level	Line Level
Minimum Output Impedance	Nominal Impedance 150 ohms

Power Input Connection	Barrel Plug, 2.1mm I.D. x 5.5mm O.D. x 11.0mm Center Positive
Output Connections	Captive Screw Terminal (Balanced / Unbalanced)
Masking Level Adjustment	Privacy Manager Software
Audio Input Level Adjustment	NA
Ethernet Connectivity	Yes
Maximum Power Consumption	21.5 Watts
Power Supply Operating Voltage	External Transformer Input 120 VAC – Output 16VAC 1000 mA
Operating Temperature Range	-10C to +40C
Power Input	120VAC/16VAC Adapter
Included Accessories	Ethernet X-over Cable
Mounting	19" EIA Rackmount
Color	Black
Dimensions	19" rack mount, 1 RU, 8" deep
Weight	6.0 lbs.
Certifications	UL60065
SKU	DS3002

## ARCHITECTURAL SPECIFICATIONS

The sound masking processor shall be a Dynasound DS3002. The unit shall provide CobraNet™ capability for all inputs and outputs. The 1 RU DSP 2 x 2 processor shall provide four separate sound masking generators, each having low pass, high pass and 1/3 octave band equalization. The unit shall be equipped with an Ethernet connection (RJ-45) to provide control and monitoring over a standard switched network, or from a single PC. The unit shall provide two balanced line level inputs for paging and music and shall provide equalization and compression for each input signal. The unit shall provide two balanced line level outputs and shall incorporate a matrix mixer giving each output (CobraNet™ and balanced outputs) access to any combination of input signals. Total harmonic distortion 20 Hz- 20kHz shall be less than .01%. Power consumption shall be 2 watts maximum @ 16VAC.

## USE WITH:

Network Sound Masking Processor and Loudspeaker Controller	SKU# DS8000
24 Port PoE Switch	SKU# DSPoE24
Amplifier (for 70 v. systems)	SKU# DSLG22
Attenuator Panels (for 70 v. systems)	SKU# DSRMP