



# TSD-GPN1200

## SOUND MASKING GENERATOR



### TECHNICAL DATA SHEET

#### PRODUCT SUMMARY

The Atlas Sound TSD-GPN1200 generation 2 sound masking generator is perfectly suited for basic sound masking systems. Its DSP noise topology design eliminates repeating cycles commonly found in other manufacturers' low-cost digital designs.

The TSD-GPN1200 provides pink noise as a source and incorporates a variable balanced output to match the input requirements of AtlasIED amplifiers. Additionally, it features a variable hi-cut filter with an operating range between 2 kHz and 16 kHz at a slope of 6 dB per octave, supporting equalization requirements for most basic sound masking systems. The TSD-GPN1200 also includes a remote level control designed to be used with the optional AtlasIED Masking attenuator, the ATMASKSC which offers precise adjustments in 1dB increments.

The TSD-GPN1200 is highly efficient and meets Energy Star standards as one 24V DC power supply can power multiple Atlas Time Saving Devices (available separately).

#### ATLAS TIME SAVING DEVICES

Atlas Sound Time Saving Devices are designed to solve some of the common audio system problems in the easiest and in the most efficient and cost-effective way. Utilizing the highest quality components and inspired by real world installation issues, the Atlas Sound TSDs include mixers, amplifiers, preamps, and other distribution and control devices to simplify your connections, provide specific application needs, and add flexibility in expansion and changes that prevent expensive system overhauls.

The Time Saving Devices are loaded with features making it versatile and user friendly. The TSD design mandate was to make the installation quick and reliable, saving you valuable time and money. Each model is housed in a compact 1.5" x 3.9" x 2.75" footprint that allows for placement almost anywhere. Common features include removable individual I/O connectors for quick and precise wiring, separate ground terminals for all I/Os assuring secured connections, and removable level controls that can be replaced with a tamper-proof security cover.

#### KEY FEATURES

- Gen 2 Sound Masking Noise Generator Topology
- Balanced Line Output
- Adjustable Level and Hi-Cut Filter
- Pink Noise Source
- Stand Alone or Rack Mountable (Optional)
- Remote Level Control in 1 dB Steps
- Meets Energy Star Standards
- Compact Chassis Design
- Non Fluxuation Output Design

#### AUDIO APPLICATIONS

- Audio Sound Masking
- Security Masking
- Conference Rooms
- Meeting Areas
- Call Centers



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SPECIFICATIONS	
Description	Sound Masking Generator Pre Amp
Chassis Color	Black
Chassis Material	Aluminum
<b>INPUTS</b>	
Noise Generator	Pink
<b>OUTPUTS</b>	
Type	Qty 1, Balanced Line
Connection	Removable 3 Position Captive Screw 3.5mm Spacing
Impedance	300Ω Balanced, 150Ω Unbalanced
Output Level	Maximum Output 500mV
<b>CONTROLS</b>	
Hi Cut Adjust	Recessed Screw Drive
Remote Level Control	Removable 3 Position Captive Screw Ground, DC Return 0V – 10V, 10V DC 3.5mm Spacing To be used with AtlasIED ATMASKSC
<b>INDICATORS</b>	
Power	Blue
<b>ELECTRICAL</b>	
Noise Topology	Random DSP, Non-Repeatable, Non Fluxuation Output Design
EQ Filter	Hi Cut, Variable, 2kHz 16kHz/6dB
Environmental	Operates -10°C – 40°C
<b>MOUNTING</b>	
Velcro	Industrial Grade, Included
Brackets	Qty 2, Included
Mounting Plate	Rack Rail / Din Rail mounting plate
TSD-RMK	Optional 1 RU Rack Mount Panel
Cable Retainer	Qty 1
<b>POWER REQUIREMENTS</b>	
24VDC	250mA
Current Draw	Current 100mA
Power Consumption	Watts 2.4W
<b>DIMENSIONS</b>	
	H 1.5" (39mm) x W 4" (101mm) x D 2.5" (70mm)
<b>WEIGHT</b>	
	6OZ, .165KG
<b>OPTIONAL ACCESSORY</b>	
TSD-RMK	1 RU 19" Width Rack Mount Panel (Supports 4 TSD Units)
ATMASKSC	Masking Attenuator, Single Gang

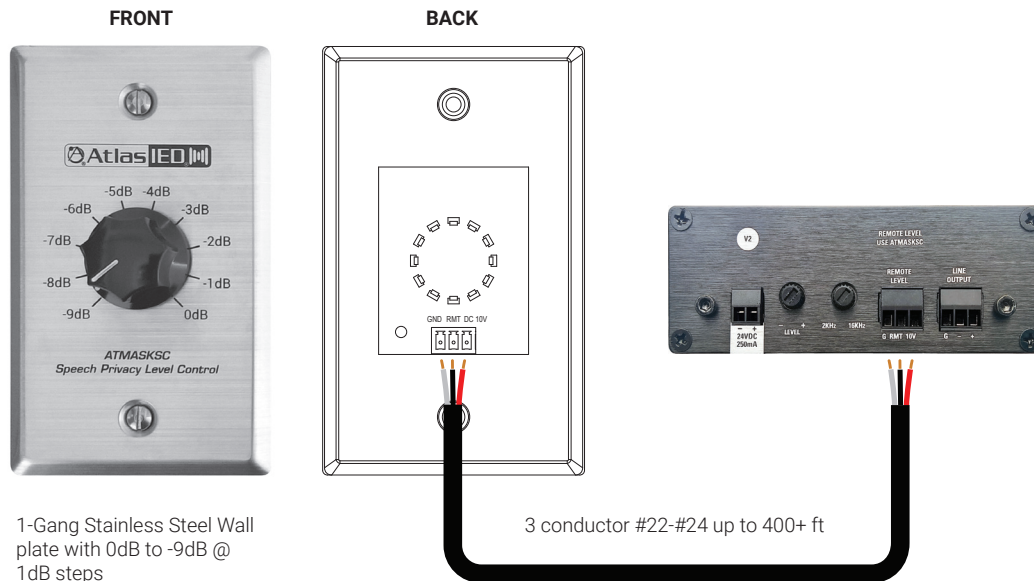
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## SOUND MASKING GENERATOR

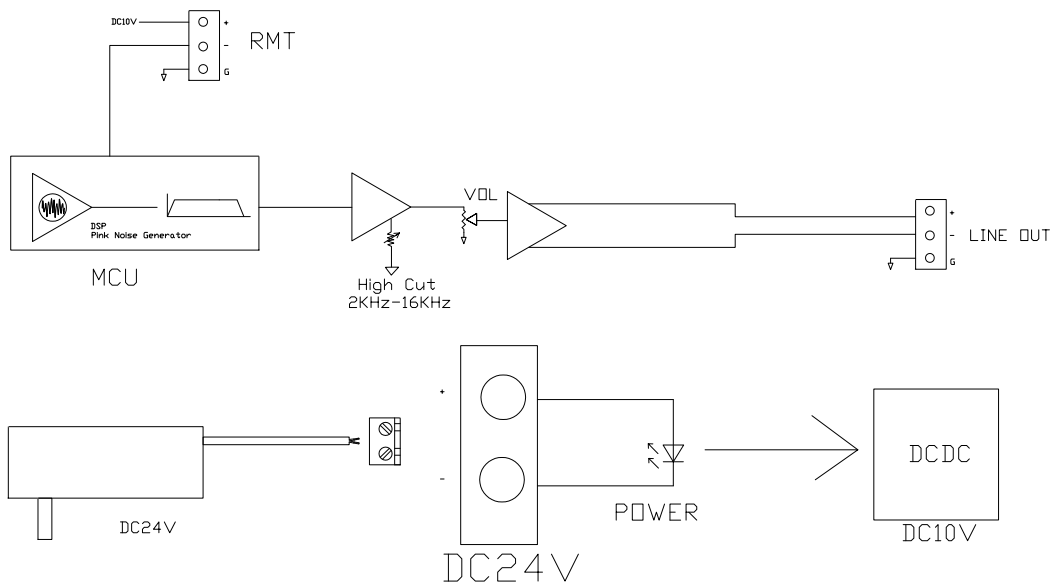


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#### ATMASKSC (OPTIONAL)



#### BLOCK DIAGRAM



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#### ARCHITECT AND ENGINEER SPECS

The AtlasIED Model TSD-GPN1200 shall be a self-contained sound masking generator preamplifier. The TSD-GPN1200 shall feature Gen 2 Pink noise DSP random non-repeatable noise generator. The TSD-GPN1200 shall have a balanced line output with a maximum output of 500mV. The unit shall have a rear panel master level control with a post remote level control. The TSD-GPN1200 shall have a remote level control port. This port features precise 1 dB increments with a non-shut off function when used in conjunction with the optional AtlasIED ATMASKSC wall plate attenuator. The TSD-GPN1200 shall have a rear panel variable high-cut filter with control from 2kHz to 16kHz.

The TSD-GPN1200 shall be powered by an external 24VDC 250mA power supply (sold separately). The TSD-GPN1200 shall come with a DIN rail mounting plate, wire management supports, and Velcro for mounting. The TSD-GPN1200 shall be rack-mountable using the optional AtlasIED TSD-RMK kit. The TSD-GPN1200 shall have dimensions of H 1.5" (39mm) x W 4" (101mm) x D 2.5" (70mm) and weigh 6oz, .165kg.

The sound masking noise generator preamp shall be the AtlasIED TSD-GPN1200.

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