

Microphone Preamplifier with Variable Compression and Noise Gating

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for SSM2165-1S or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SSM2165-1S is a voltage-controlled amplifier (VCA) chip manufactured by Analog Devices Inc. It is a precision, low-distortion, and low-noise VCA that is commonly used in audio applications. Here are some of its features:

### Features

**Gain range:** The SSM2165-1S has a wide gain range of -96 dB to +32 dB, which makes it suitable for a variety of audio amplification needs.

**Low distortion and noise:** The SSM2165-1S is designed to provide low distortion and noise performance, making it ideal for high-quality audio applications.

**Voltage-controlled operation:** The gain of the SSM2165-1S can be controlled by an external control voltage, allowing for precise and dynamic control of the audio signal level.

**Wide supply voltage range:** The SSM2165-1S operates from a single supply voltage of +4 V to +36 V, making it compatible with a wide range of audio systems.

### Application

**Audio compressors:** The SSM2165-1S can be used in audio compressors to control the dynamic range of audio signals, providing consistent levels and preventing distortion.

**Automatic gain control (AGC) systems:** The SSM2165-1S can be used in AGC systems to automatically adjust the gain of an audio signal based on its level, ensuring that the output remains within a desired range.

**Microphone preamplifiers:** The SSM2165-1S can be used in microphone preamplifiers to amplify the weak signals from microphones and provide gain control for different recording or audio processing scenarios.



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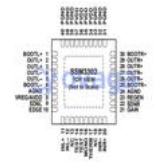
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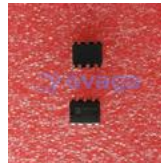
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