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A low-noise gain-enhanced readout amplifier with chopper-stabilization is presented to measure these minute molecular electronic signatures. This readout amplifier is implemented as a MOSFET cascaded with an R-TIA, as shown in Fig. 1. Fig. 4 shows the equivalent small-signal model of the readout circuit. A. Gain A MOSFET with

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Abstract: This paper presents a low-noise amplifier (LNA) design for

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multifunction receiver front-end. Based on the conventional noise cancelling technique, a gain-enhanced noise cancelling structure is presented and the effect of gain-enhanced stage is discussed. The wideband input matching is

A 0.1-8GHz wideband low-noise

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technique, a gain-enhanced noise cancelling structure is presented and the effect of gain-enhanced stage is discussed. The wideband input matching is realized by a current-reuse common-source stage with an active feedback structure to alleviate the tradeoffs between NF, gain, and bandwidth.

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A noise gate will act as a gain reducer until you send a signal over its threshold, so having a noise gate first is a good idea. (It does affect sustain and various other factors, but they are outside the scope of the question) The rest of your setup is usually determined

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by how you want your guitar to sound.

What is the best setup for high gain and low noise for my ...

Forcing the noise gain can help in a variety of applications. For example, to take advantage of one or more of its features, you may want to use a decompensated amplifier below its

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Noise Gain vs. Signal Gain | Analog Devices

A low-noise amplifier (LNA) is an electronic amplifier that amplifies a very low-power signal without significantly degrading its signal-to-noise ratio. An amplifier will increase the power of both

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the signal and the noise present at its input, but the amplifier will also introduce some additional noise. LNAs are designed to minimize that additional noise.

Low-noise amplifier - Wikipedia

The Texas Instruments LMH6628 is a high speed dual op amp that offers a

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traditional voltage feedback topology featuring unity gain stability and slew enhanced circuitry. The LMH6628's low noise and very low harmonic distortion combine to form a wide dynamic range op amp that operates from a single (5V to 12V) or dual ($\pm 5V$) power supply.

LMH6628 data sheet, product

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The THAT1580 is a versatile, high performance current-feedback amplifier suitable for differential microphone preamp and bus summing applications. The IC comes in a small QFN package, which saves PCB space over discrete and other integrated solutions. Gain is adjusted via three external resistors (RA,

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RB, and RG), making it possible to
optimize noise over a wide range of
gains.

THAT Corporation 1580 Low-Noise Differential Audio ...

This article analyzes noise in a circuit
that uses the AD9268 dual 16-bit,
125-/105-/80-MSPS, pipelined ADC, and

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the AD8375 ultralow distortion IF VGA. The signal chain includes a VGA—used at a gain setting of +6 dB, a 5th-order Butterworth low-pass filter with a -3-dB roll-off at 100 MHz, and the ADC. Noise calculations will be shown for the ampli

Understanding How Amplifier Noise Contributes to Total ...

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The OPA365 zero-crossover series, rail-to-rail, high-performance, CMOS operational amplifier is optimized for very low voltage, single-supply applications. Rail-to-rail input/output, low-noise ($4.5 \text{ nV}/\sqrt{\text{Hz}}$) and high-speed operation (50-MHz gain bandwidth) make this device ideal for driving sampling analog-to-digital converters

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Low-dropout regulators (LDOs) are one of the most critical power management

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modules, as they can provide regulated low-noise and precision supply voltages for noise-sensitive analog blocks. With the widespread proliferation of modern portable devices, ever more stringent performance requirements of the LDO are needed.

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CIRCUITS, VOL. 42, NO. 8 ...

Coherent amplification and noise in gain-enhanced nanoplasmonic metamaterials: a Maxwell-Bloch Langevin approach. Pusch A(1), Wuestner S, Hamm JM, Tsakmakidis KL, Hess O. Author information: (1)Blackett Laboratory, Department of Physics, Imperial College London, South

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Kensington Campus, London SW7 2AZ,
United Kingdom.

Coherent amplification and noise in gain-enhanced ...

The second gain band at $2.3 \mu\text{m}$ was modelled with a gain of either 9 dB/m or 0 dB/m in order to investigate the effect of this gain on the soliton- and noise

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dynamics. The full gain/loss profile ...

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