

Re: Simple audio signal to level convertor?

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- *From:* NoSpam@xxxxxxxxxxxx (Bob Masta)
 - *Date:* Wed, 02 Jul 2008 12:03:34 GMT
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On Tue, 1 Jul 2008 10:15:55 -0700 (PDT), Kasterborus
<kasterborus@xxxxxxxx> wrote:

Hi,

I'm looking for a circuit that can read a standard line level audio signal and output a continuous voltage 0-5v proportional to the amplitude of the input.

This in turn would be read by an ADC/microprocessor to modulate some flashing lights.

As always - any help is greatly appreciated.

If you are going to use an ADC and microprocessor anyway, you might want to consider letting them do more of the work. You could provide a preamp to get the signal in range of the ADC, and let software do the rest.

That way, the software can handle attack/decay time constants, and most importantly it can do FFT spectral analysis to get frequency information, if you later decide you want it.

Of course, this will mean that you will need to sample at a much higher rate and deal with the flow of data. You don't mention the capabilities of the uP you have in mind... can it handle this kind of workload?

Best regards,

Bob Masta

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