

# ADA021 – 4 Channel 1~5 V Input/2 Channel Output

5/10/2010



Specifications		
<b>Number of channels</b>	<b>Input:</b> 4 differential	<b>Output:</b> 2 single-ended
<b>Input ranges</b>	1~5 V	
<b>Output Range</b>	0~10 V, 1~5 V, ±10 V 0~20 mA, 4~20 mA, -20 mA~+20 mA	
<b>Resolution</b>	12 bits input resolution 15 bits output resolution	
<b>Accuracy</b>	±0.2% FSR	
<b>Drift</b>	<b>Zero drift:</b> +/-0.06, μV/°C <b>Span drift:</b> +/-30 PPM/°C	
<b>Step response (10~90%)</b>	10 μs/channel	
<b>Setup time</b>	10 μs/channel	
<b>Settle time</b>	1.2 ms/channel	
<b>Conversion method</b>	Successive-Approximation	
<b>Rejection mode</b>	<b>Common:</b> 150 dB at 60 Hz <b>Normal:</b> 150 dB at 60 Hz	
<b>Isolation</b>	2.5 KV optical isolation between input signals and CPU, channels not individually isolated	
<b>Internal current consumption</b>	400 mA	
<b>Range selection</b>	DIP switches, all channels must be same range	
<b>External connections</b>	20-pt. terminal block connector, max. wire size #14 AWG	
<b>Weight</b>	390 g	
Features		
\$ Built-In AC 50/60 Hz differential rejection capability		
\$ Individual channel enable/disable		

\* The design of the module involves a software filter and each channel acquires 6 samples of data in one scan.

