

### 4 Ch input DAQ card

U 964 DAQ card for sound test.

4 channels analog signal input, can be choose enable / disable IEPE excitation power, ideally for microphone, artificial ear, accelerometer and other IEPE power sensors.

The product has rich channel resources and excellent indicators, which can meet the acoustic test of mass production of consumer products. It is an extremely cost-effective audio analyzer.



#### General specifications

parameters	
Input channels	4
IEPE channels	4 (Built in front of the acquisition)
IEPE Voltage	24V
Control	USB
Dimension (mm)	96*33*140
Connection type	BNC
Working temperature	-20°C~50°C

#### General features

- 4 channels input
- Built in IEPE power supply
- Positioning r&d acoustic testing
- Single-ended signal

#### AI specifications

AI parameters	
ADC precision	24 Bit
ADC type	$\Delta-\Sigma$
Sample rate range	1kHz-192kHz
FIFO	1024
Mode of data transmission	DMA
Input range	+/- 1Vrms
Input impedance	1Mohm
Flatness	20Hz~20kHz, < +/- 0.1dB 10Hz~60KHz, < +/- 1dB

AI Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	18.6	24.0	96.7
Max Value	20.4	24.8	93.4
Annotation: [1] Acquisition equipment impedance < 50ohm, Working temperature 23 ± 5°C			

AI SNR (dB)			
Sample rate	fs=48S/s	fs=96kS/s	fs=192kS/s
Typical value	95	94	94
Max Value	94	94	94
Annotation: [1] AC coupling, output signal 1kHz sine wave, 1Vrms [2] Bandwidth 20Hz-20kHz			

AI dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Min Value	94	92	80
Annotation: [1] AC coupling, output signal 1kHz sine wave, 1Vrms [2] Nyquist bandwidth			

AI THD+N (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-84.5	-84.5	-77.9
Max Value	-84.5	-84.5	-75.6
Annotation: [1] AC coupling, output signal 1kHz sine wave, 1Vrms [2] Bandwidth 20Hz-80kHz			

AI THD (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-105.3	-105.3	-88
Max Value	-105.3	-105	-79.3
Annotation: [1] AC coupling, output signal 1kHz sine wave, 1Vrms [2] Bandwidth 2Hz-80kHz			

AI Cross talk (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Max Value	-95	-95	-94
Annotation: [1] AC coupling, output signal 1kHz sine wave, 1Vrms [2] Bandwidth 2Hz-80kHz			

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