

2 channels output & 8 channels input differential acquisition card



PM 6181 is a dynamic signal acquisition card designed specifically for high cost performance.

8 channels analog signal input, of which 2 channels can access the rotary signal, can select to enable or disable the IEPE constant current source driver, for conditioning the microphone, artificial ear, accelerometer and other IEPE powered sensors.

2 channel analog output, 2 channel power amplifier, are used to drive artificial mouth, speaker and other high-power load.

General

Overall parameters	
Analog input channel	8
Analog output channel	2
IEPE channel	8
IEPE power	24V
USB	USB
Dimension(mm)	240*240*76
Connection type	BNC
Working temperature	-20°C~50°C
Supply voltage	220V

General features

- 8-channel analog input (2-channel rotary signal available)
- 2 channels output
- Differential signal
- Built-in IEPE power supply
- Positioning production line mass production acoustic testing

AI Analog acquisition channel parameter

AI Analog acquisition channel	
ADC precision	24 Bit
ADC type	$\Delta -\Sigma$
Sampling rate range	1kHz~192kHz
FIFO Buffer size	1024
Data transmission mode	DMA
Input voltage range	+/- 10Vrms (Range ability:1Vrms、5Vrms、10Vrms)
Gain error	+/- 0.03dB
Input impedance	Between positive input and ground: 1Mohm
Flatness	20Hz~20kHz, Typical value+/- 0.02dB 20Hz~80KHz, Typical value+/- 0.15dB

AI Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	10	15	25
Annotation: [1]Short circuit source impedance is less than 50Ω, Working temperature 23±5 °C [2]IEPE Off			

AI SNR (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	120	116	112
Annotation:[1]Differential input, AC coupling, Input signal 1kHz Sine wave, 0dBFS (10Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,IEPE Off			

AI dynamic range (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	97	96	96
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.45Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,SPDR test			

AI THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-97	-93	-86
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.45Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,IEPE Off			

AI Cross talk (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-106	-104	-102
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.45Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,IEPE Off			

AO Analog acquisition channel parameter

AO Analog acquisition channel	
DAC precision	24 Bit
Sampling rate range	1kHz~192kHz
Output voltage range	+/- 10Vrms (Range ability:5Vrms、10Vrms)
Gain error	+/- 0.03dB
Output impedance	Positive input to negative input: 1ohm
Flatness	20Hz~20kHz, Typical value+/- 0.15dB 20Hz~80kHz, Typical value/- 1dB

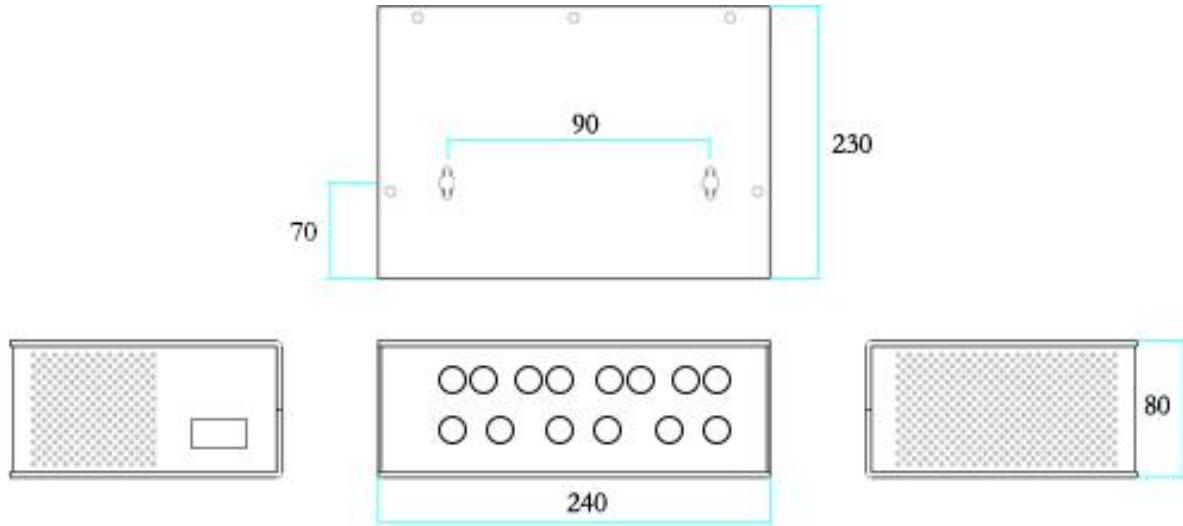
AO Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	17	25	60
Annotation: [1]Acquisition device impedance is greater than 1Mohm, Working temperature:23±5°C			

AO SNR (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	108	103	95
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, 0dBFS(10Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO Dynamic range (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	115	111	110
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, -1dBFS(4.45Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-102	-95	-89
Annotation: [1]Differential, AC coupling, output signal 1kHz Sine wave, -1dBFS(4.45Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO Cross talk (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-100	-98	-93
Annotation: [1]Differential, AC coupling, output signal 1kHz Sine wave, -1dBFS(4.45Vrms) [4]Bandwidth is 22.4K、45K、90K [5]Linear weight			

Product size**Company:** mm

MegaSig reserves the right to change specifications and accessories without notice.

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