



4 channel input, 4 channel output sound card

PM 6044 is a dynamic signal acquisition card designed specifically for high cost performance.

4-channel Differential-ended signal input/output, with the option to enable or disable IEPE constant current source exciter for conditioning IEPE powered sensors such as microphones, artificial ears, accelerometers, etc.

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

General

Overall parameters	
Analog input channel	4
Analog output channel	4
IEPE channel	4
IEPE power	24V
power amplifier channel	4
power amplifier	16w
BUS	USB
Dimension(mm)	240*240*76
Connection type	BNC
Working temperature	-20°C~50°C

General features

- 4 channels output, 4 channels input
- Differential signal
- Highly integrated, built-in IEPE power supply, built-in power amplifier channel
- Positioning production line mass production acoustic testing

AI Analog acquisition channel parameter

AI Analog acquisition channel	
ADC precision	24 Bit
ADC type	Δ - Σ
Sampling rate range	44.1k、48k、96k、192kHz
FIFO Buffer size	1024
Data transmission mode	DMA
Input voltage range	+/- 4.5Vrms
Input impedance	Between positive input and ground: 1Mohm
Flatness	20Hz~20kHz, < +/- 0.15dB AI -3dB Bandwidth: 3Hz-72kHz

AI Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	20	23	460
Annotation: [1]Short circuit source impedance is less than50Ω, Working temperature 23±5℃ [2]IEPE Off			

AI SNR (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	104	102	78
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.05Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,DR test			

AI dynamic range(dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	99	99	99
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.05Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,IEPE Off			

AI THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-94	-94	-77
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.05Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,IEPE Off			

AI THD (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-95	-95	-97
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.05Vrms) [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	-104	-104	-78
Annotation: [1]Differential input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(4.05Vrms) [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	44.1k、48k、96k、192kHz
Output voltage range	+/- 3.5Vrms
Gain error	+/- 0.03dB
Output impedance	Positive input to negative input: 1ohm
Flatness	20Hz~20kHz, 小于 +/- 0.08dB AO -3dB Bandwidth: 4Hz-75kHz

AO Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	24	24	80
Annotation: [1]Acquisition device impedance is greater than 1Mohm, Working temperature:23±5℃			

AO SNR (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	102	102	92
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, 0dBFS(3.5Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

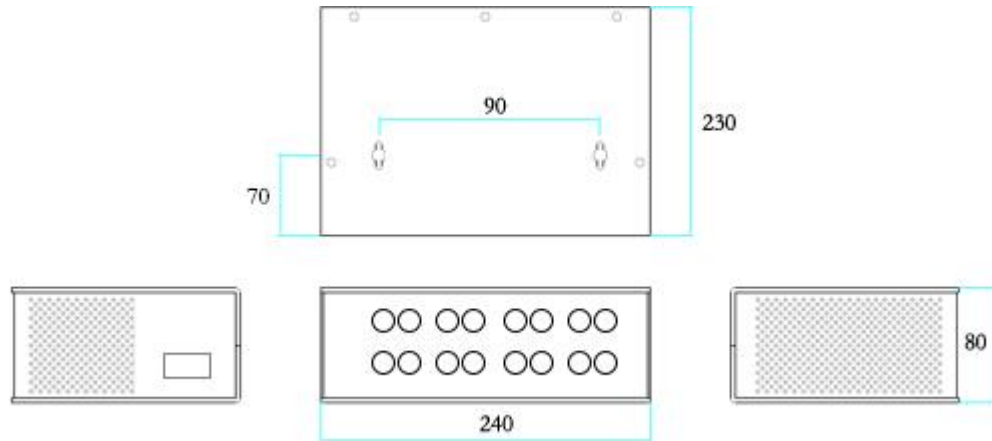
AO dynamic range(dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	90	90	89
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, -1dBFS(3.11Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-88	-88	-88
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, -1dBFS(3.11Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO THD (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-86	-86	-86
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, -1dBFS(3.11Vrms) [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	-103	-103	93
Annotation: [1]Differential output, AC coupling, out signal 1kHz Sine wave, -1dBFS(3.11Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

Dimension: mm



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



www.megasig.com

Shenzhen MegaSig Measurement & Control Technology Co.,Ltd

Tel: 0755-8950.8393 Fax:0755-8950.8392

Sales email: sale@megasig.com

Technical support email: support@megasig.com

Address: Room 1002, Unit 2, Building 1, Hongxing Chuangzhi Plaza, Guangming District, Shenzhen,China