

PM 6043 Light

Version:1.2_20230327_CN

4 channel input, 4 channel output sound card



PM 6043 Light is a dynamic signal acquisition card designed specifically for high cost performance.

4-channel single-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.

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

General

General features

Overall parameters	
Analog input channel	4
Analog output channel	4
IEPE channel	4
IEPE power	24V
power amplifier channel	3
power amplifier	16w
BUS	USB
Dimension(mm)	240*240*76
Connection type	BNC
Working temperature	-20°C~50°C

- 4 channels output, 4channels input
- Highly integrated, built-in IEPE power supply, built-in power amplifier channel
- 3-channel power amplifier, x4
- IEPE constant current source with signal access indicator for easy installation and troubleshooting

AI Analog acquisition channel parameter

AI Analog acquisition channel	
ADC precision	24 Bit
ADC type	$\Delta-\Sigma$
Sampling rate range	44.1k、48k、88.2k、96k、192kHz
FIFO Buffer size	1024
Data transmission mode	DMA
Input voltage range	+/- 1Vp (0.7Vrms)
Input impedance	Between positive input and ground: 1Mohm
Flatness	20Hz~20kHz, $< \pm 0.1\text{dB}$ 20Hz~60kHz, $< \pm 1\text{dB}$

AI Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	40	40	110
Annotation: [1]Short circuit source impedance is less than50Ω, Working temperature 23±5°C [2]IEPE Off			

AI SNR (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	86	86	75
Annotation: [1]Single input, AC coupling, Input signal 1kHz Sine wave, 0dBFS(0.707Vrms) [2]Bandwidth: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	101	101	96
Annotation: [1]Single input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight,DR test			

AI THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-87	-87	-75
Annotation: [1]Single input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AI THD (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-103	-103	-103
Annotation: [1]Single input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AI Cross talk (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-86	-86	-75
Annotation: [1]Single input, AC coupling, Input signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

AO Analog acquisition channel parameter

AO Analog acquisition channel	
DAC precision	24 Bit
Sampling rate range	44.1k、48k、88.2k、96k、192kHz
Output voltage range	+/- 1Vp (0.7Vrms)
Output impedance	Positive input to negative input: 1ohm
Flatness	20Hz~20kHz, $< \pm 0.15$

AO Idle noise (uVrms)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	4	6	10
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	107	98	95
Annotation: [1]Single output, AC coupling, out signal 1kHz Sine wave, 0dBFS(0.707Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

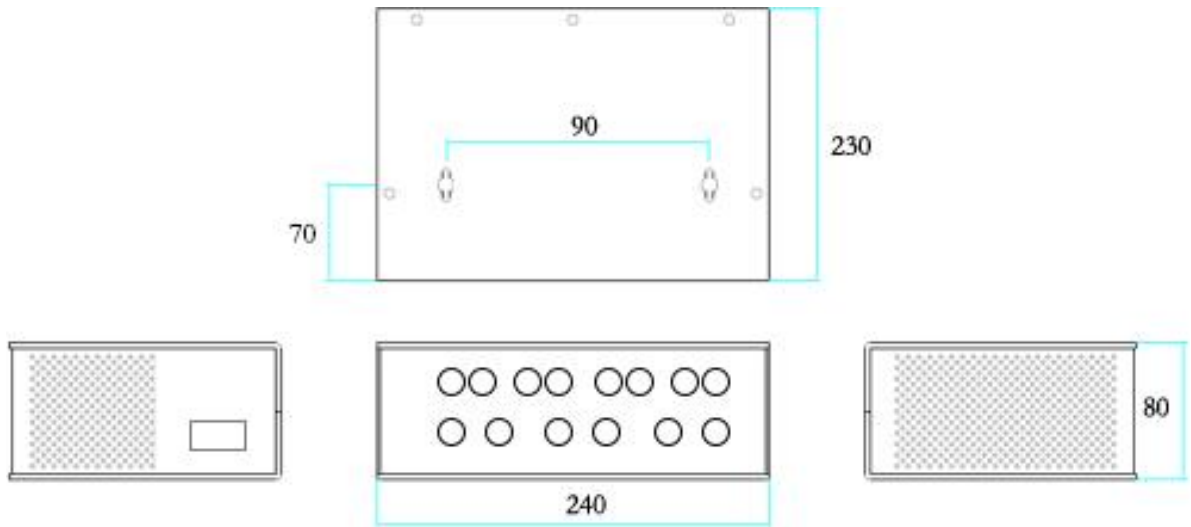
AO dynamic range(dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	96	97	91
Annotation: [1]Single output, AC coupling, out signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight, DR test			

AO THD+N (dB)			
Sampling rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical value	-90	-90	-86
Annotation: [1]Single output, AC coupling, out signal 1kHz Sine wave, -1dBFS(0.63Vrms) [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	-95	-95	-91
Annotation: [1]Single output, AC coupling, out signal 1kHz Sine wave, -1dBFS(0.63Vrms) [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	-97	-96	-94
Annotation: [1]Single output, AC coupling, out signal 1kHz Sine wave, -1dBFS(0.63Vrms) [2]Bandwidth is 22.4K、45K、90K [3]Linear weight			

Dimension: mm



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



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