

24ch input , 2ch output high-end data interface



PM 6687 is a high-end data interface specially designed for sound test. 24ch input, you can choose direct line input or external IEPE to conditioning microphones, artificial ears, accelerometers and other sensors.

2ch output, you can choose direct line output or output after connecting to power amplifier.

The product has abundant channel resources and excellent indicators, which can meet the RD testing of consumer product.

General Specification

parameters	
Input channels	24
Output channels	2
Control	USB
Dimension (mm)	440*350*134
Connection type	BNC, CANNON, D-SUB25
Trigger connection type	SMB
Working temperature	-20°C~50°C

Key features

- 24ch input, 2ch output
- Differential signal and pseudo differential signal is the freedom to choose
- Supports internal trigger and external trigger
- Position high quality acoustic test performance

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	+/- 170Vp
Gain error	+/- 0.01dB
Input impedance	Unbalance: 300ohm, 600ohm , 100kohm Balance: 300ohm, 600ohm , 200kohm
Flatness	20Hz~20kHz, 192kS/s, DC coupling, < +/- 0.008dB

AI Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.3	2.0	3.0
Ps: [1] Short circuit source impedance < 50 ohm, Working temperature 23 ± 5°C [2] AC coupling			

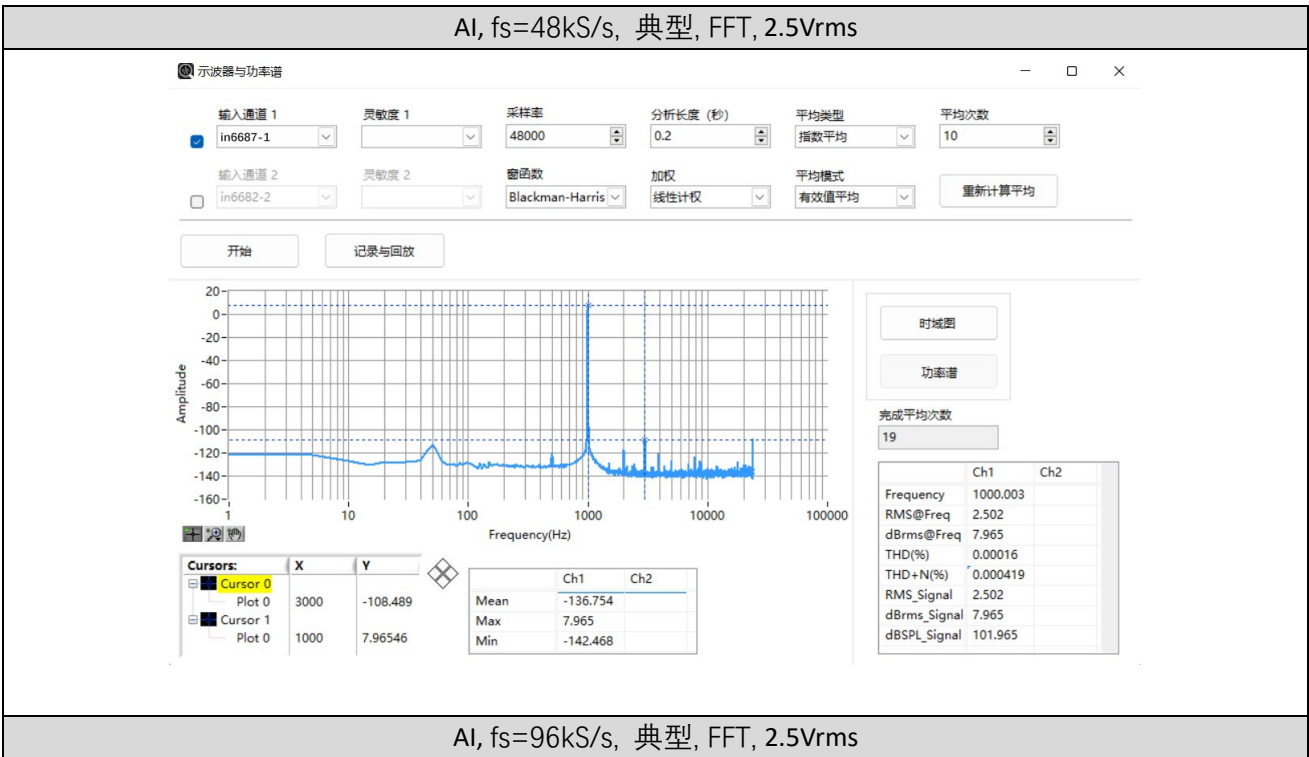
AI SNR (dB)

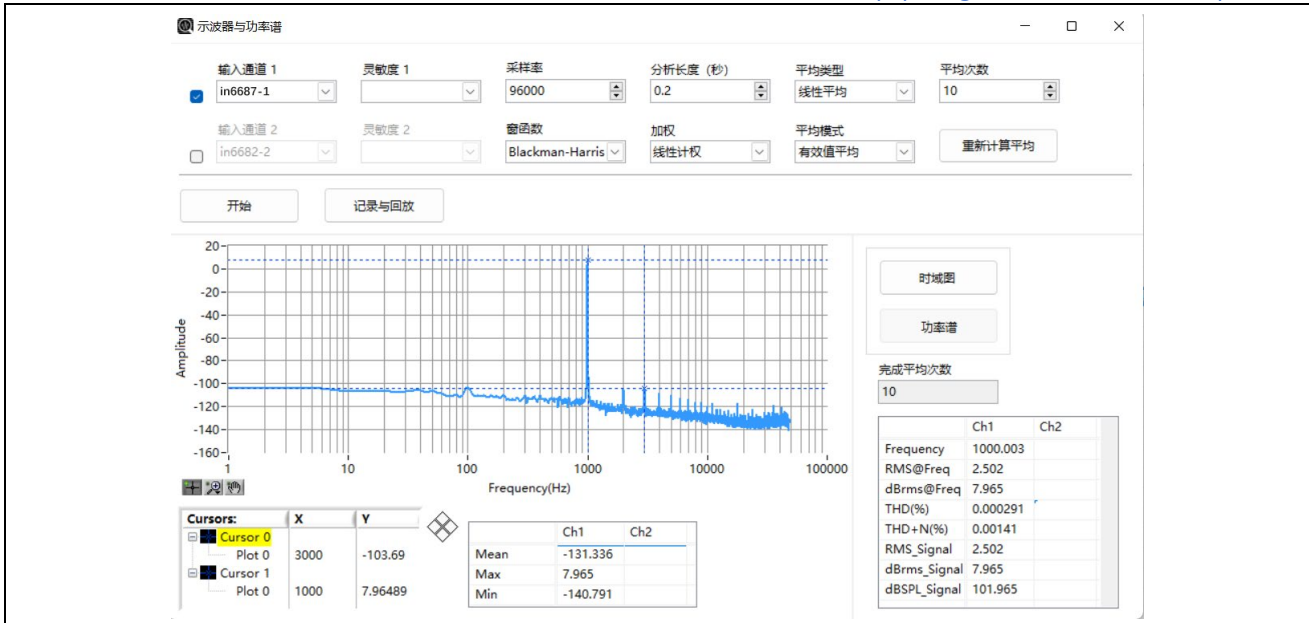
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	125	122	119

PS: [1] Pseudo differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm
 [2] Bandwidth, 22,4K、45K、90K
 [3] AC coupling

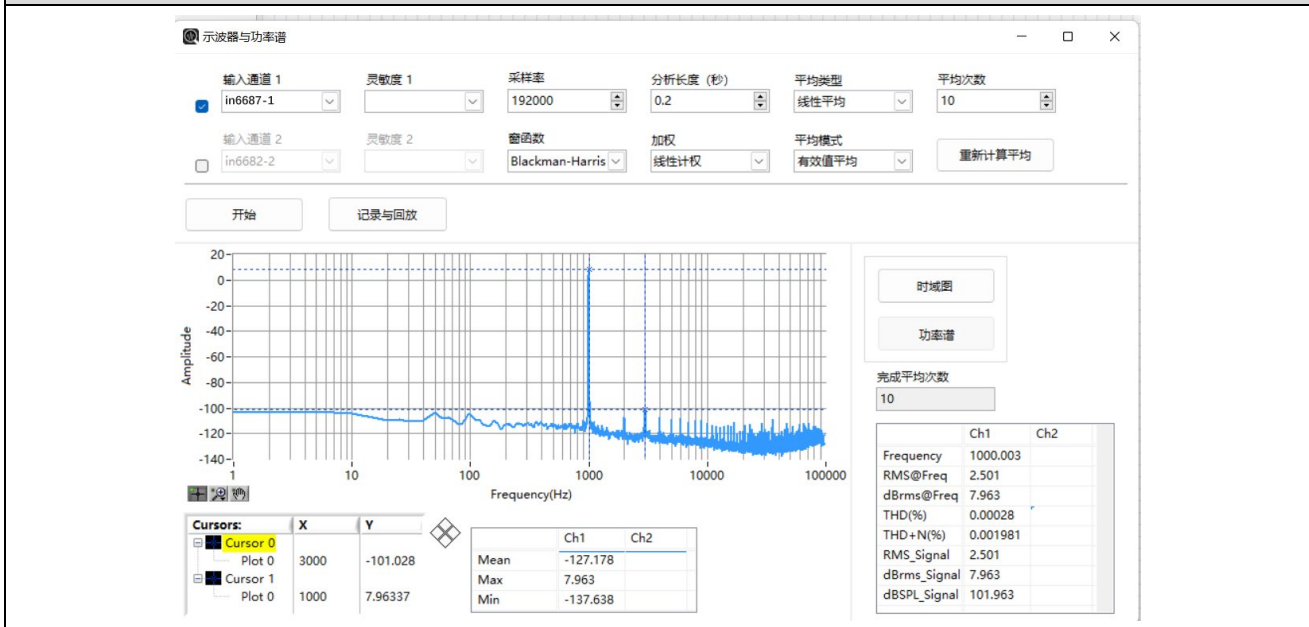
AI dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	115	110	107

PS: [1] Pseudo differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm
 [2] Bandwidth, 22,4K、45K、90K
 [3] AC coupling





AI, fs=192kS/s, 典型, FFT, 2.5Vrms



AI THD+N (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-108	-102	-95

PS: [1] Pseudo differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm
 [2] Bandwidth, 22,4K、45K、90K
 [3] AC coupling

AI Cross talk (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-118	-118	-115

PS: [1] Pseudo differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm

[2] Bandwidth, 22,4K、45K、90K

[3] AC coupling

AO specifications

AO parameters	
DAC precision	24 Bit
Sample rate	1kHz~192kHz
Output range	+/- 21Vrms (balance) , +/- 10.5Vrms (Unbalance)
Gain error	+/- 0.01dB
Output impedance	Unbalance: 20ohm, 50ohm, 75ohm, 100ohm, 600ohm Balance: 40ohm, 100ohm, 150ohm, 200ohm, 600ohm
Maximum output power of external resistor	4ohm, 1.56w ; 8ohm, 1.125w
Flatness	20Hz~20kHz, 192kS/s, DC coupling, < +/- 0.008dB

AO Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.3	1.7	2.5
PS: [1] Acquisition equipment impedance > 1Mohm, Working temperature 23 ± 5°C [2] AC coupling			

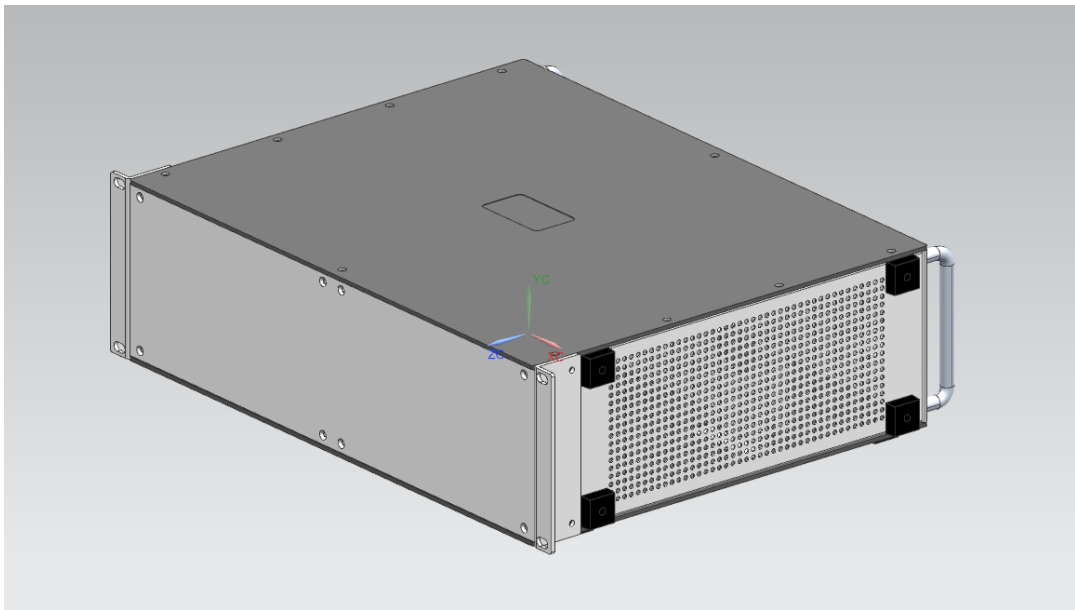
AO SNR (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	125	122	119
PS: [1] Pseudo differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm [2] Bandwidth, 22,4K、45K、90K [3] AC coupling			

AO dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	119	117	115
PS: [1] Pseudo differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm [2] Bandwidth, 22,4K、45K、90K [3] AC coupling			

AO THD+N (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-105	-98	-90
PS: [1] Pseudo differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm [2] Bandwidth, 22,4K、45K、90K [3] AC coupling			

AO Cross talk (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-125	-120	-118
PS: [1] Pseudo differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 20ohm, Input impedance 100kohm [2] Bandwidth, 22,4K、45K、90K [3] AC coupling			

Unit



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



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