

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



PM 6681 is a high-end data interface specially designed for sound test.

2ch 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

Key features

parameters	
Input channels	2
Output channels	2
Control	USB
Dimension (mm)	440*350*88
Connection type	BNC, CANNON
Working temperature	-20°C~50°C

- 2ch input, 2ch output
- Differential signal and pseudo differential signal is the freedom to choose
- 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	+/- 100Vrms
Gain error	+/- 0.01dB
Input impedance	Unbalance: 600ohm , 100kohm Balance: 600ohm , 200kohm
Flatness	20Hz~20kHz, < +/- 0.008dB (Sample rate 192kS/s)

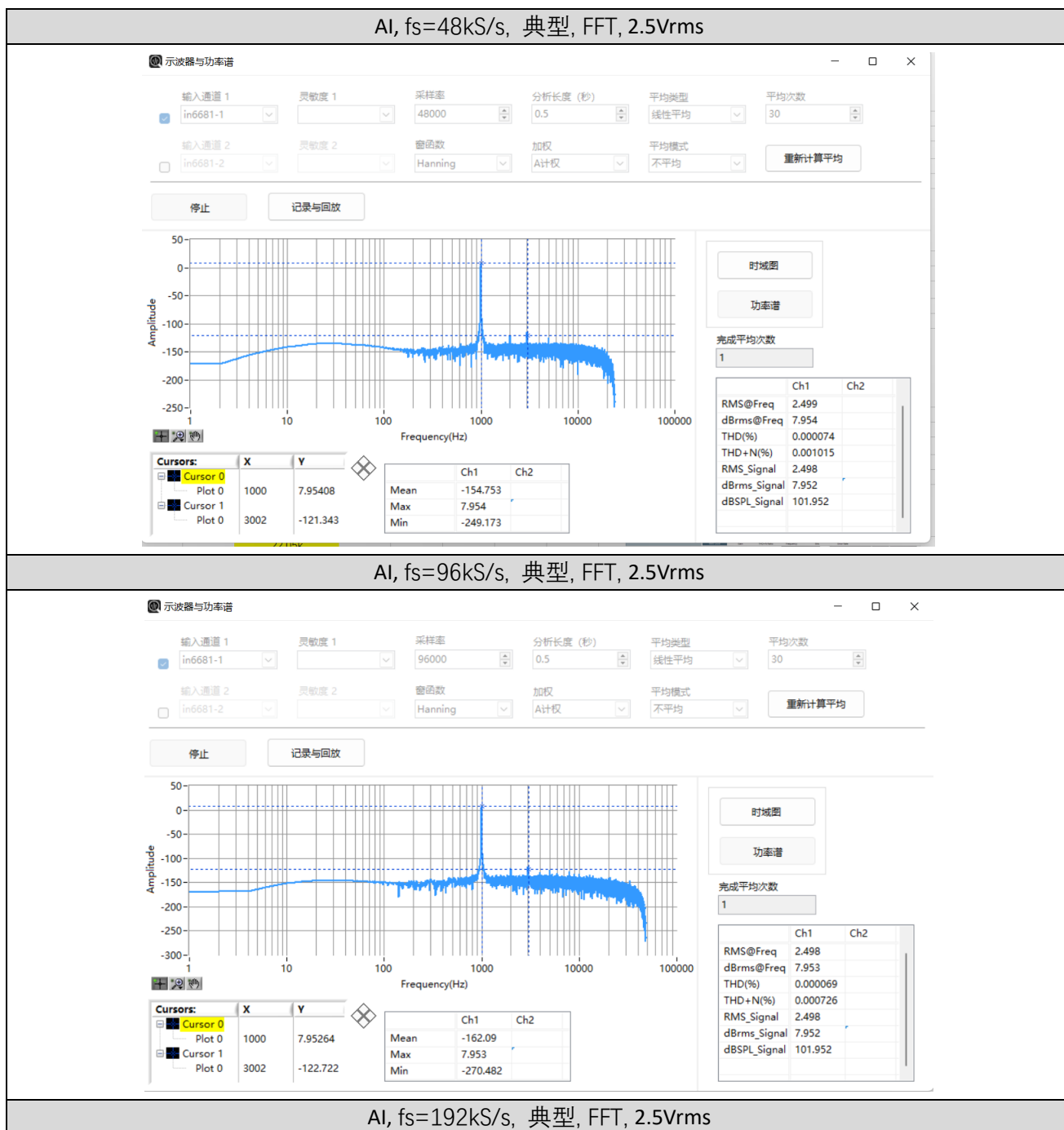
AI Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.4	1.9	2.8
Ps: [1] Short circuit source impedance < 50 ohm, Working temperature 23±5°C			

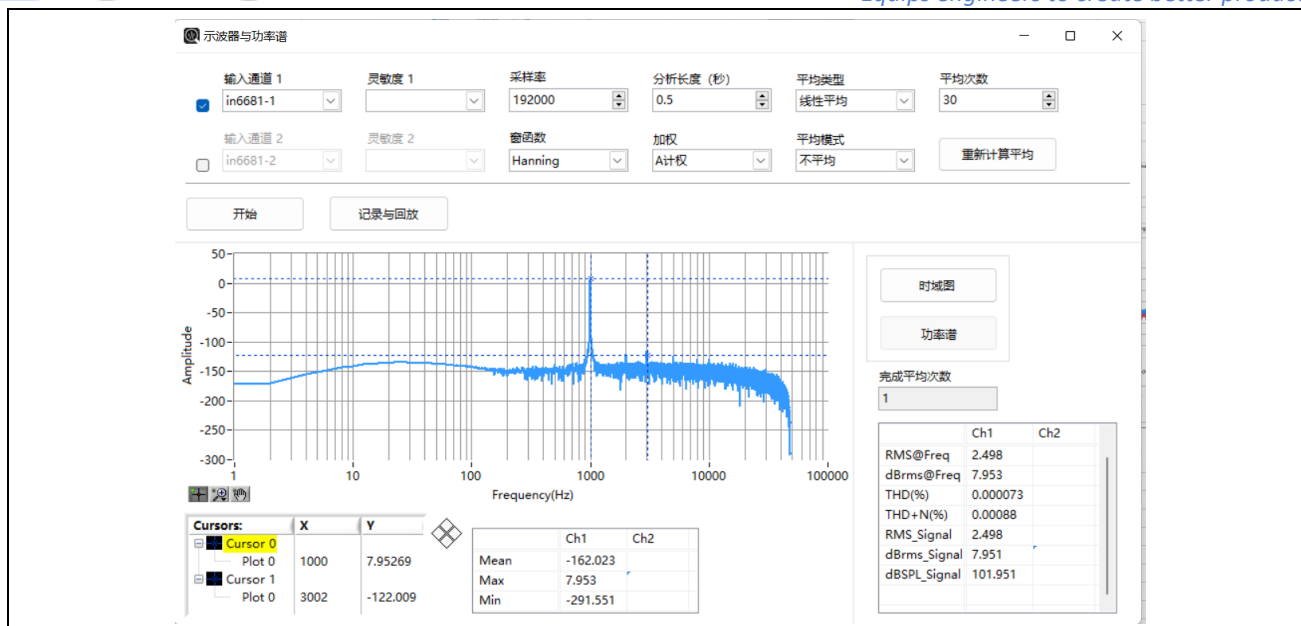
AI SNR (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	125	123	120

PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 40ohm, Input impedance 200kohm
[2] Bandwidth, 22,4K、45K、90K

AI dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	128	126	126

PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 40ohm, Input impedance 200kohm
[2] Bandwidth, 22,4K、45K、90K





AI THD+N (dB)

Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-107	-100	-93

PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 40ohm, Input impedance 200kohm
[2] Bandwidth, 22,4K、45K、90K

AI THD (dB)

Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-115	-113	-113

PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 40ohm, Input impedance 200kohm
[2] Bandwidth, 22,4K、45K、90K

AI Cross talk (dB)

Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-130	-130	-129

PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, output impedance 40ohm, Input impedance 200kohm
[2] Bandwidth, 22,4K、45K、90K

AO specifications

AO parameters	
DAC precision	24 Bit
Sample rate	1kHz~192kHz
Output range	+/- 16Vrms (balance) , +/- 8Vrms (Unbalance)
Gain error	+/- 0.01dB
Output impedance	Unbalance: 50ohm, 600ohm Balance: 100ohm, 600ohm

Maximum output power of external resistor	4ohm, 1.56w ; 8ohm, 1.125w
Flatness	10Hz~10kHz, < +/- 0.01dB (Sample rate 192kS/s)

AO Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.4	2.0	2.6
PS: [1] Acquisition equipment impedance > 1Mohm, Working temperature 23 ± 5℃			

AO SNR (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	125	122	119
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K			

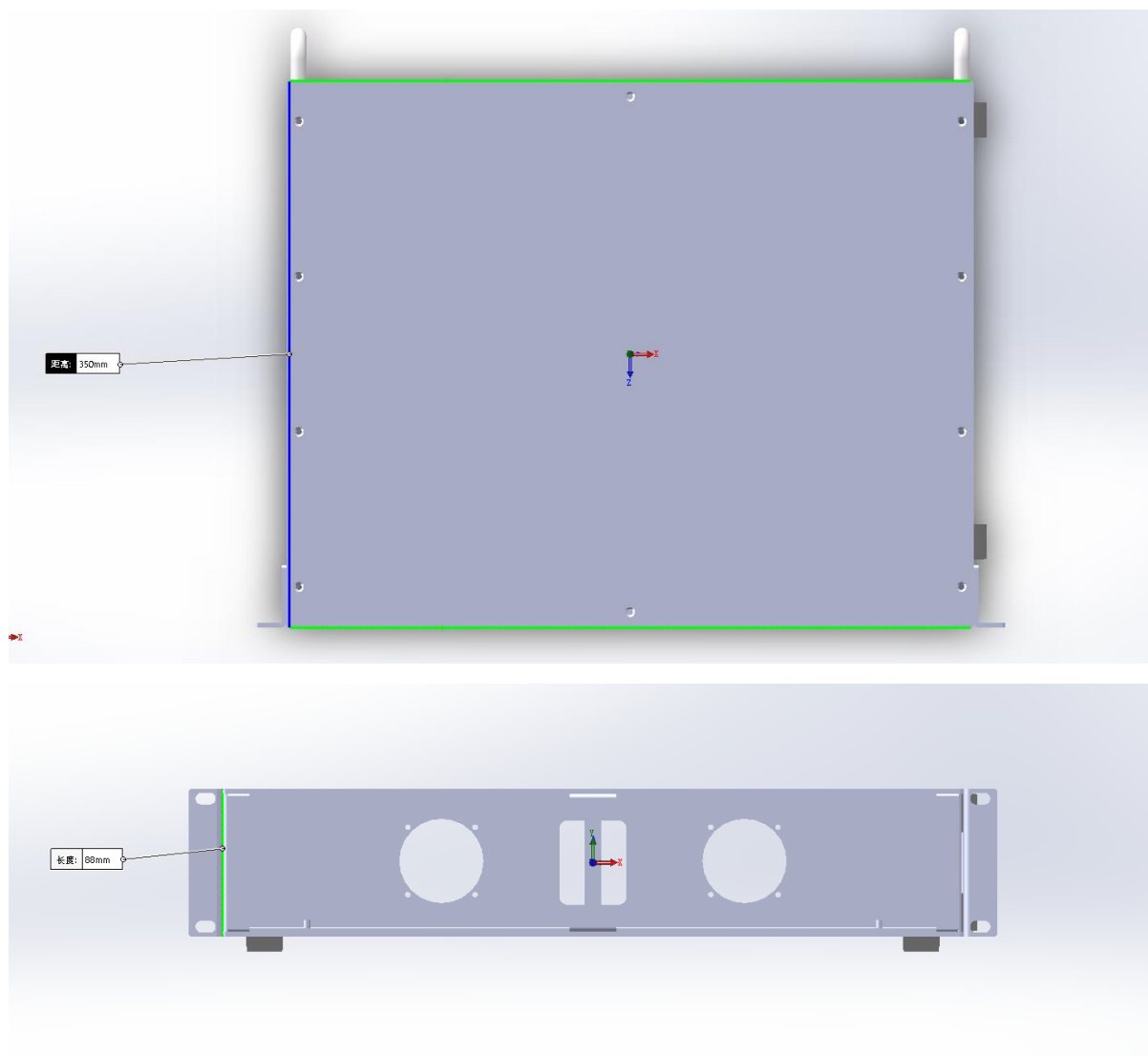
AO dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	114	114	114
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K			

AO THD+N (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-107	-102	-95
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K			

AO THD (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-114	-113	-113
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K			

AO Cross talk (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-126	-122	-120
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K			

Unit



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

www.megasig.com**MegaSig Measurement & Control Technology Co.,Ltd**

Tel: +86.0755-8950.8393

Fax: +860755-8950.8392

Sale mail: sale@megasig.com

Support mail: support@megasig.com

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