PM 6681

Version：V2.1_20231017_EN

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

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

Key features

- 2ch input，2ch output
- Differential signal and pseudo differential signal are 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	Δ-Σ
Sample rate range	1kHz~192kHz
FIFO	1024
Mode of data transmission	DMA
Input range	+/- 125Vp
Gain error	+/- 0.01dB
Input impedance	Unbalance: 600ohm ， 100kohm Balance: 600ohm ， 200kohm
Flatness	20Hz~20kHz，192kS/s, DC coupling，< +/- 0.008dB

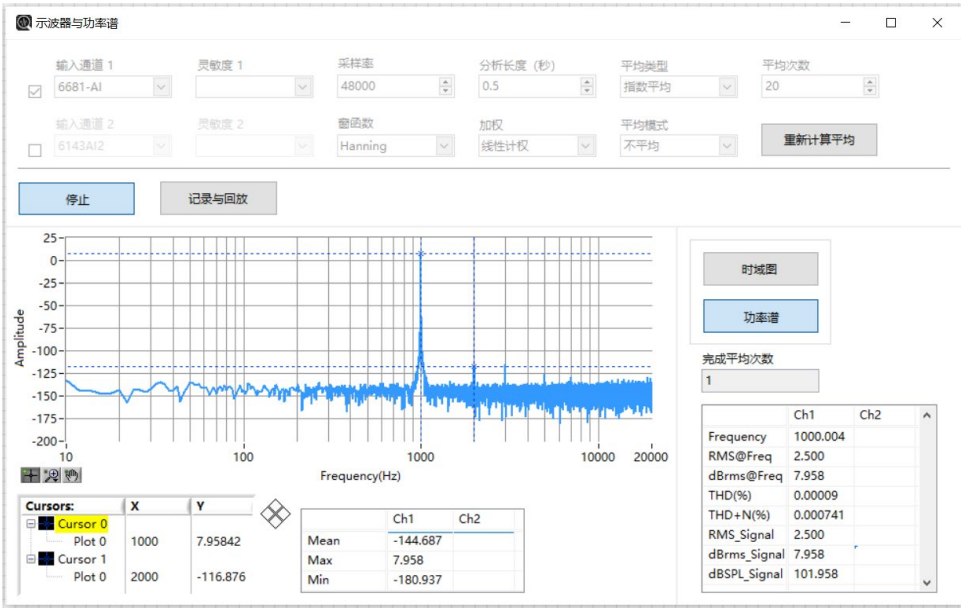
AI Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.4	1.9	2.8
Ps：[1] Short circuit source impedance < 50 ohm， Working temperature 23±5℃ [2]AC coupling			

AI SNR (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s

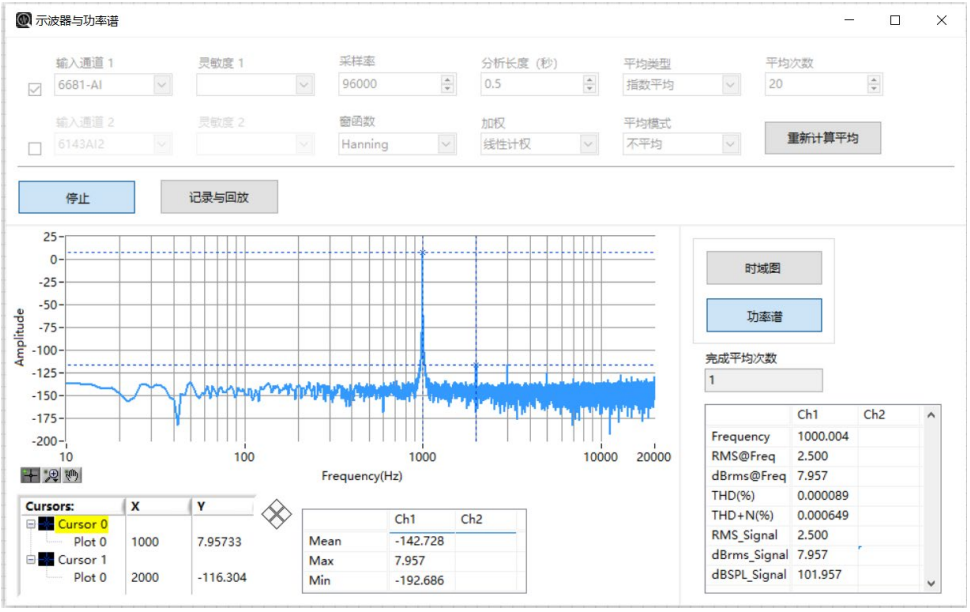
Typical Value	122	120	117
PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K [3]AC coupling			

AI dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	120	118	116
PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K [3]AC coupling			

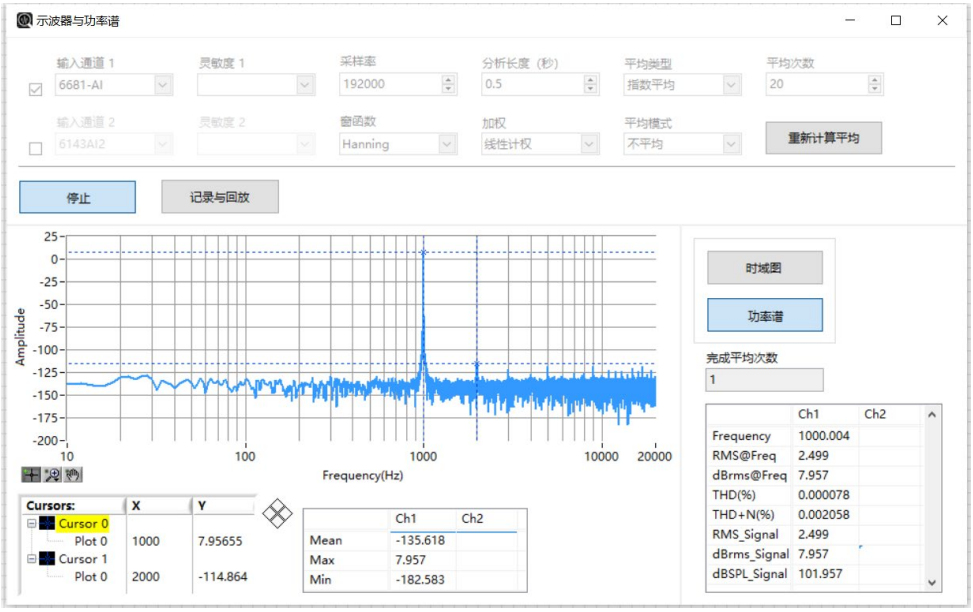
AI, fs=48kS/s, 典型, FFT, 2.5Vrms



AI, fs=96kS/s, 典型, FFT, 2.5Vrms



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	-107	-100	-93
PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, Input impedance 200kohm [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	-135	-132	-130
PS: [1] Differential input, AC coupling, input signal 1kHz sine wave, 2.5Vrms, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K [3]AC coupling			

AO specifications

AO parameters	
DAC precision	24 Bit
Sample rate	1kHz~192kHz
Output range	+/- 8Vrms（Unbalance），+/- 16Vrms（balance）
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，192kS/s, DC coupling，< +/- 0.01dB

AO Idle noise (uVrms)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	1.4	2.0	2.8

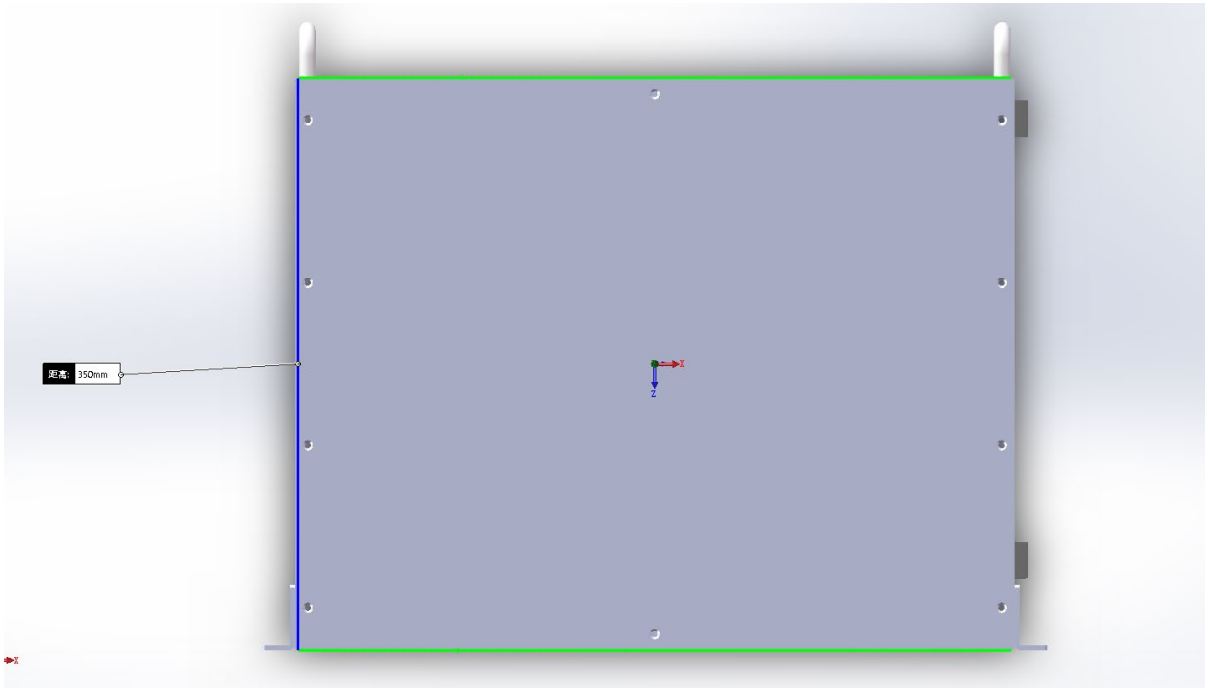
PS：[1] Acquisition equipment impedance > 1Mohm， Working temperature 23±5℃ [2]AC coupling

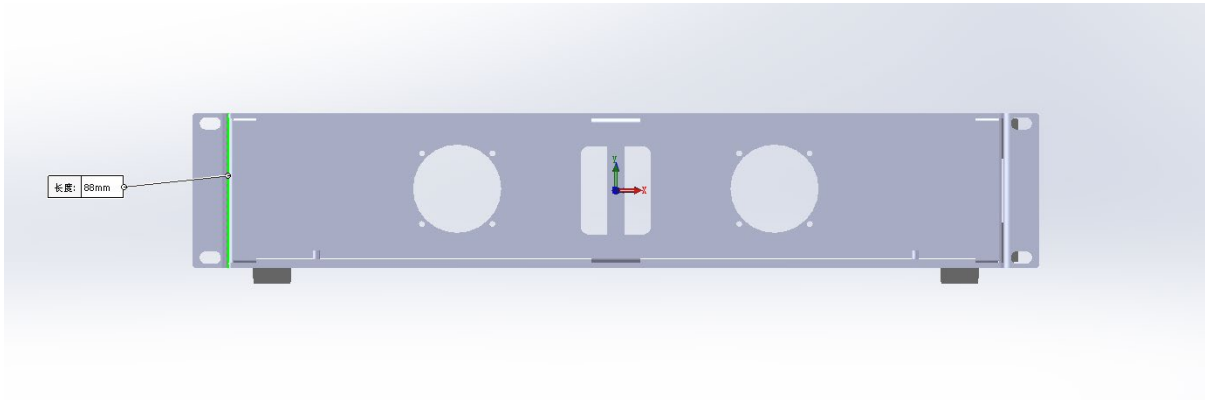
AO SNR (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	122	120	117
PS: [1] Differential output, AC coupling, output signal 1kHz sine wave, 2.5Vrms, output impedance 100ohm, Input impedance 200kohm [2] Bandwidth, 22,4K、45K、90K [3]AC coupling			

AO dynamic range (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	114	112	110
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 [3]AC coupling			

AO THD+N (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-106	-100	-93
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 [3]AC coupling			

AO Cross talk (dB)			
Sample rate	fs=48kS/s	fs=96kS/s	fs=192kS/s
Typical Value	-126	-126	-126
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 [3]AC coupling			





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