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Hantek

HDG2032B

2 CHANNEL
MSBTPA1/F

Hantek

12-03-2012

CH1

连接 关闭

CH2

频率 1.000,000,000 KHz
幅度 200 mV
偏移 0.000 V
相位 0.00 deg

频率 1.000,000,000 KHz
幅度 200 mV
偏移 0.000 V
相位 0.00 deg



SD CARD



USB





Hantek®

ARBITRARY/FUNCTION GENERATOR SERIES

Customer	
Order No.	
Model	HDG2032B
Serial No.	 DD62301266

Overseas Sales



86-532-8870-3687



service@hantek.com



www.hantek.com

Domestic Sales

86-532-8870-3697

Han

ARBI

HDG2000B Series

Product introduction :

16Bit Resolution, 250MSa/s Sample Rate; 64M Memory Depth; 16 channels digital output, 7 inch, 64K true color TFT display, WVGA(800X480)

- Overview
- Parameters
- Accessories
- Download

Model	HDG2102B	HDG2082B	HDG2062B	HDG2032B
Main Features				
Channel	2	2	2	2
Memory Depth	64M	64M	64M	64M
Frenquency	100MHz	80MHz	60MHz	30MHz
Sample Rate	250MSa/s			
Voltage Resolution	16Bit			
Digital Output	16 Channels output			
Frenquency Characteristic				
Standard	Sine, Square, Ramp, Pulse, Noise, Sinc, Exponential Rise, Exponential			
Waveforms	Fall, ECG, Gauss, Haver Sine, Lorentz, Dual-Tone, DC			
Sine	1uHz~Max.			
Square	1uHz~30MHz			
Pluse	1uHz~15MHz			
Ramp/Triangle	1uHz~4MHz			
White Noise	1uHz~Max.			
Arb.	1uHz~20MHz	1uHz~20MHz	1uHz~20MHz	1uHz~20MHz
Resolution	1uHz			
Accuracy	±50ppm, 18~28°C			
Sine Wave Spectrum Purity				
Harmonic	Typical (0dBm) DC-1MHz: <-60dBc; 1MHz-10MHz: <-55dBc;			
Distortion	10MHz-100MHz: <-50dBc			
Total Harmonic	<0.1% (10Hz-20kHz, 0dBm)			
Distortion				
Spurious signal	Typical(0dBm):≤10MHz: <-65dBc;			
(non-harmonic)	>10MHz <-65dBc+6dB/spectrum phase			
Phase Noise	Typical(0dBm,10kHz offset,) 10MHz: ≤-115dBc/Hz			
Square				
Rise/Down time	<10ns	<11ns	<12ns	<14ns
Overshoot	<3%(100KHz, 1Vpp)			
	≤10MHz: 20.0%~80.0%;			
Duty Cycle	10MHz~40MHz: 40.0%~60.0%;			8.0%~92.0%
	>40MHz: 50.0%			
Non-symmetry	1% of period+5ns			
Jitter (rms)	Typical (1MHz,1Vpp, 50Ω) ≤5MHz: 2ppm+500ps; > 5MHz: 500ps			
Ramp				
Linearity	≤1%(1KHz, 1Vpp)			

Symmetry	0%~100%			
Pluse				
Period	33.33ns~1Ms	40ns~1Ms	40ns~1Ms	50ns~1Ms
Pulse	≥12ns	≥14ns	≥14ns	≥16ns
Leading Edge Time	≥8ns	≥9ns	≥10ns	≥10ns
Overshoot	<3%(1VPP)			
Jitter (rms)	Typical (1MHz, 1Vpp, 50Ω)			
	≤5MHz 2ppm+500ps			
	> 5MHz 500ps			
Arb. Waveform Generator				
Waveform Length	64M Point			
Vertical Resolution	16 Bit			
Sample Rate	250MSa/s			
Rise/Fall time	Typical(1Vpp):<6ns			
Jitter	Typical (1MHz, 1Vpp, 50Ω)			
	≤5MHz 2ppm+500ps;			
	> 5MHz 500ps			
Amplitude characteristic				
Amplitude Range	≤20MHz:2mVpp - 20Vpp;≤60MHz:2mVpp - 15Vpp;≤80MHz:2mVpp - 10Vpp;			
	≤90MHz:2mVpp - 5Vpp;≤100MHz:2mVpp - 2Vpp			
Accuracy	Typical (1kHz Sine, 0V deviation, >10mVpp, Auto); ±1% of setting ±2mVpp			
Amplitude Flatness	≤10MHz:±0.1dB;≤60MHz:±0.2dB;≤100MHz:±0.4dB			
Resolution	1mv or 4 digits			
Impedance	50Ω			
Offset Characteristic				
Range	Voffset < Vmax - Vpp/2			
Accuracy	±(1% of setting + 5mV + 0.5% of amplitude)			
Modulation Characteristic				
Modulation Type	AM, FM,PM,2ASK,2FSK,2PSK,PWM			
AM				
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)			
Source	Internal/External			
Modulating Waveforms	Sine, Square, Ramp, Noise, Arb			
Frequency	1Hz~500KHz			
Depth	0%~120%			
FM				
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)			
Source	Internal/External			
Modulating Waveforms	Sine, Square, Ramp, Noise, Arb			
Frequency	1Hz~500KHz			
Frequency Deviation	0~360			
PM				

Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)
Source	Internal/External
Modulating Waveforms	Sine, Square, Ramp, Noise, Arb
Frequency	1Hz~500KHz
Frequency Deviation	0%~120%
2ASK	
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)
Source	Internal/External
Modulating Waveforms	Square of 50% duty cycle
Code Rate	1Hz~500KHz
2FSK	
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)
Source	Internal/External
Modulating Waveforms	Square of 50% duty cycle
Code Rate	1Hz~500KHz
2PSK	
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)
Source	Internal/External
Modulating Waveforms	Square of 50% duty cycle
Code Rate	1Hz~500KHz
PWM	
Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)
Source	Internal/External
Modulating Waveforms	Sine, Square, Ramp, Noise, Arb.
Code Rate	1Hz~500KHz
Width Deviation	0% to 100% of Pulse Width
Burst Characteristic	
Burst Count	1~2000000000
Gated Source	External trigger
Trigger Source	Internal, External or Manual
Sweep Characteristics	
Type	linear
TypeDirection	Up
Sweep time	280 000s
Hold/Return time	280 000s
Trigger Source	Internal, External, Manual
Mark	Falling Edge of Sync signal(programmable)
General Specifications	
Interface	USB host, USB Device, LAN optional
Display	7" 64K Color TFT Display, 800*480
Power Voltage	100-120VACRMS(±10%), 45Hz to 440Hz, CAT II ; 120-240VACRMS(±10%), 45Hz to 66Hz, CAT II
Power Consumption	<60W

Output Current	0.15A
Size	305mm x 100mm x 130mm(L x W x H)
Weight	3KG