

Acute DG3000 Data Generator

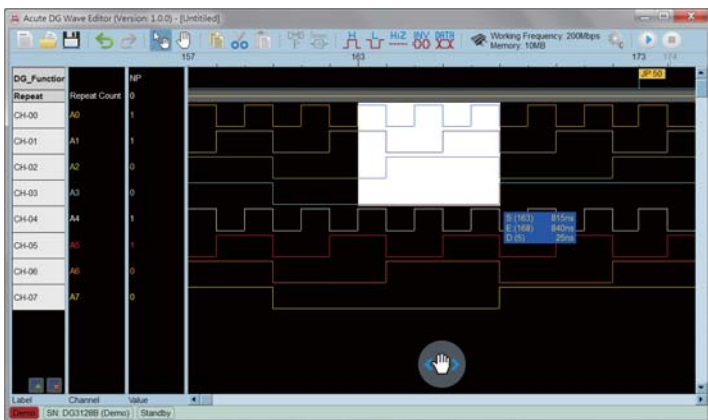


270 x 175 x 55 (mm³)

- USB 3.0 interface, 12V power adaptor
- Channels : 112 Max. (Data Output), 16 (Event Input)
- Data rate : 400Mbps @Ch (Max.)
- Memory : 256Mb/ch
- Clock Range : 1Hz ~ 400MHz (6 digits)
- Probe output : 0.8V ~ 5.0V (0.1V resolution) and Hi-Z
- Phase tuning between channels
- Default pattern : CAN, I²C, I²S, RS232, SPI, Sync / Async-Counter ...
- User pattern : Direct draw, Acute-LA / VCD, ...

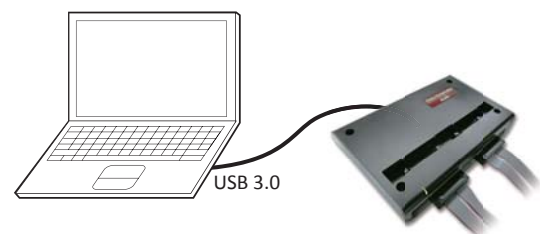
Model	Data Channel	Event Channel	Pattern Depth
DG3064B	48	16	256Mb/ch
DG3096B	80	16	256Mb/ch
DG3128B	112	16	256Mb/ch

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10 (64 bit)
- PC RAM 16GB (recommended) or 8GB at least



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PC-based T&M Instruments

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DG3000 series

Model	DG3064B		DG3096B	DG3128B	
Power	Power Source		12V Power adapter		
	Static Power Dissipation		9W	12W	
	Max Power Dissipation		24W	30W	
Hardware Interface		USB 3.0			
Number of Output Channels		48	80	112	
Memory	Total Memory Size		32Gb		
	Pattern Depth		256Mb/ch		
Data Rate		400Mbps @Ch (Max.)			
Operation Clock System	Internal	Range	1Hz ~ 400MHz		
		Resolution	6 digits		
	External	Clock Range	<200MHz		
		Input Channels	1 Channel (TTL3.3V)		
Data Flow Control		Loop, Jump, Hold, Wait for Event			
Period Jitter	Clock	<200ps			
	Channel	<200ps			
Event	Internal	Hot Key		16	
		Channel	Logic AND / Logic OR		
	External	Mode	-0.5V ~ 4.5V		
		Threshold	All		
Phase Tuning Delayed	Channels	> 300Mbps : No, < 300Mbps : 8 Phases from 0 to 1UI			
Temperature	Operating / Storage		5°C~45°C (41°F~113°F) / -10°C~65°C (14°F~149°F)		
	Languages		English / Traditional Chinese / Simplified Chinese		
Software Features	Save & Load Waveform		Yes		
	Regular Waveform Generator		Synchronous / Asynchronous Counter, CAN, I ² C, I ² S, LIN, SPI, UART, ...		
	Waveform Editing Interface		Waveform Drawing, Script File		
	Device Dimension L x W x H (mm ³)		270 x 175 x 55		
Weight	Device / Accessories		800g / 1850g		
	DG-pod / Event-pod / OE-pod		1 / 1 / 1	2 / 1 / 1	
Probe	Flying lead cable:		3 / 1 / 1		
	DG (DG) / Event (DG, Event) / OE (DG, OE)		4 / 2, 2 / 2, 1	8 / 2, 2 / 2, 1	
	Grippers		80	120	
DG-Probe/ OE-Probe	Channels		32 for DG / 24 for OE		
	Data Rate		400Mbps @Ch (Max.)		
	VoL		0V		
	VoH min. for DG-Probe		0.8Vpp @ <= 40Mbps, 1.2Vpp @ <= 300Mbps, 1.5Vpp @ <= 400Mbps		
	VoH min. for OE-Probe		1.1Vpp @ <= 50Mbps, 1.3Vpp @ <= 300Mbps, 1.5Vpp @ <= 400Mbps		
	VoH max.		5.0V		
	Minimum Pulse Width		2.5 ns		
	Impedance		CMOS with 20 Ω		
	Fan Out		20mA/ch		
	Output Enable		DG-Probe	2 Group O.E. (16ch/O.E. *2=32ch)	
			OE-Probe	1 Group O.E. + 8ch Independent O.E. (16ch+8ch=24ch)	
	Event-Probe	Channels		16 (DG) + 16 (Event) + 1 (Clock Input)	
Frequency		200MHz (Max.)			
Operation		-1V~8V @ 0.1V Resolution			
Input Voltage (Non-destructive)		±15V DC+AC peak (Max.)			
Minimum Pulse Width		2.5 ns			
Sensitivity		~300mV			
Impedance		1M 5p			

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Packing List :

						<ul style="list-style-type: none"> · USB3.0 (1.8M) · BNC to MCX · Gripper · Adapter/ Power cord
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Software and Manual Download links at: <http://www.acute.com.tw>