

# Acute Data Generator

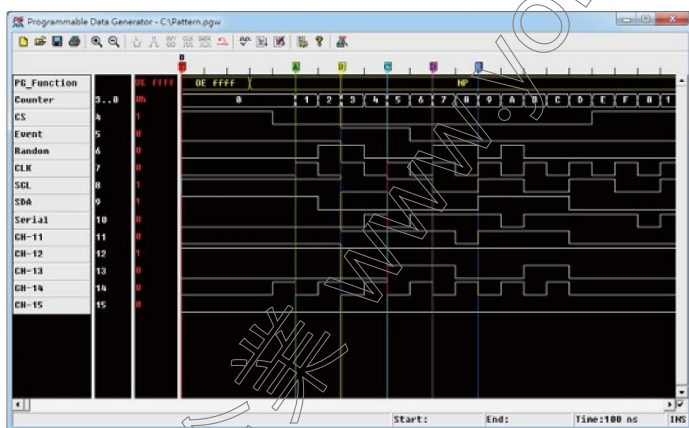


270 x 175 x 55 (mm<sup>3</sup>)

- USB 3.0 interface, 12V power adaptor
- Channels : 48 (Data Output), 16 (Event Input)
- Data rate : 400Mbps (Max.)
- Memory : 256Mb/ch
- Clock Range : 10Hz ~ 400MHz (0.1Hz resolution)
- Output voltage : 0.8V ~ 5.0V (0.1V resolution) and Hi-Z
- Phase tuning between channels
- Default pattern : RS232, Sync / Async-Counter, I<sup>2</sup>C, I<sup>2</sup>S, SPI, CAN, USB1.1, ...
- User pattern : Direct draw, Acute-LA / Text / VHDL / VCD, ...

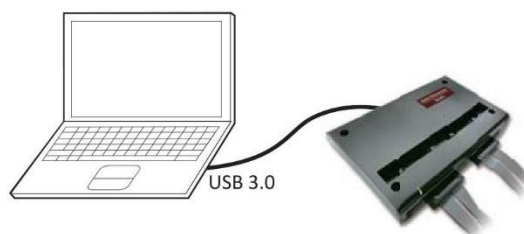
Model	Event Channel	Data Channel	Pattern Depth
DG3048B	16	48	256Mb/ch

## 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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# DG3000 series

Model	DG3048B		
Power	Power Source	12V Power adapter	
	Static Power Dissipation	18W	
	Max Power Dissipation	45W	
	Protection	Re-settable Fuse (750mA)	
Hardware Interface	USB 3.0		
Number of Output Channels	48		
Memory	Total Memory Size	32Gb	
	Pattern Depth	256Mb/ch	
Data Rate	400Mbps (Max.)		
Operation Clock System	Internal	Range	10Hz ~ 400MHz
		Resolution	0.1Hz
	External	Clock Range	<200MHz
		Output Channels	1 Channel (TTL3:3V)
Data Flow Control	Loop, Jump, Wait for Event		
Output	Level	0.8V ~ 5.0V (0.1V resolution)	
	Impedance	TTL series with 20 Ohms	
	Fan Out	20mA/ea.	
Period Jitter	Clock	<50ps	
	Channel	50ps	
Event	Internal	Hot Key	
	External	Channel	16
		Mode	Logic AND / Logic OR
	Threshold	-0.5V ~ 4.5V	
Output Enable	Per 16 Channels		
Delay	Channels	All	
	Time	> 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)		
Software Features	Languages	English / Traditional Chinese / Simplified Chinese	
	Save & Load Waveform	Yes	
	Print Waveform	Yes	
	Regular Waveform Generator	Synchronous / Asynchronous Counter, Printer (SPP), CAN, I <sup>2</sup> C, I <sup>2</sup> S, LIN, SPI, UART, USB1.1, ...	
	Waveform Editing Interface	Waveform Drawing, Script File	
		Acute-LA (.LAW), Acute-PG vector file (.PGV)	
	Waveform Conversion	VHDL wave convert (.VHT), Altera (.TBL)	
		Customer Requirement	
	Device Dimension	L x W x H (mm <sup>3</sup> )	270 x 175 x 55
	Weight	Device / Accessories	800g / 1850g
Lead Cable	DG-pod / EVENT-pod	1 / 1	
	Flying lead cable (DG/ EVENT)	4 / 4	
Grippers	80		
DG-Probe	Channels	32	
	Frequency	400Mbps (Max.)	
	Level	0.8V~5.0V @ <= 50MHz   0.9V~5.0V @ <= 100MHz 1.0V~5.0V @ <= 200MHz   1.2V~5.0V @ <= 300MHz 1.5V~5.0V @ <= 400MHz	
	Minimum Pulse Width	2.5 ns	
	Channels	16 (DG) + 16 (Event)	
	Frequency	200MHz (Max.)	
EVENT-Probe	Level	±15V	
	Minimum Pulse Width	2.5 ns	
	Sensitivity	~300mV	
	Impedance	1M    5p	

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