GDS-3000 規格

規格適用於 GDG-3000 系列在+ 20℃～+ 30℃ 的環境中至少熱機 30 分鐘時

機種規格			
機種	通道數	頻寬(-3dB)	上升時間
GDS-3152	2 + Ext	DC ~ 150MHz (−3dB)	2.3ns
GDS-3154	4 + Ext	DC ~ 150MHz (−3dB)	2.3ns
GDS-3252	2 + Ext	DC ~ 250MHz (−3dB)	1.4ns
GDS-3254	4 + Ext	DC ~ 250MHz (−3dB)	1.4ns
GDS-3352	2 + Ext	DC ~ 350MHz (−3dB)	1ns
GDS-3354	4 + Ext	DC ~ 350MHz (−3dB)	1ns
GDS-3502	2 + Ext	DC ~ 500MHz (−3dB)	700ps
GDS-3504	4 + Ext	DC ~ 500MHz (−3dB)	700ps

規格		
垂直	解析靈敏度	8 bit
		@1MΩ: 2mV~5V/div
		@50/75Ω: 2mV~1V/div
	輸入耦合	AC, DC, GND
	輸入阻抗	1MΩ// 15pF
	直流增益準確度	±3% full scale
	極性	正常&反轉
	最大輸入電壓	@1 MΩ: 300Vrms, CAT I
		@50/75Ω: 5 Vrms max
	偏移位置範圍	2mV/div ~ 100mV/div : ±0.5V
		200mV/div ~ 5V/div : ±25V
	頻寬限制	Dependent on the oscilloscope bandwidth (BW.
		BW=150: Full/20MHz
		BW=250: Full/20MHz/100MHz
		BW=350: Full/20MHz/100MHz/200MHz
		BW=500: Full/20MHz/100MHz/200MHz/350MHz
	波形訊號處理	Add, subtract, multiply, and divide waveforms, FFT, FFTrms, Integration*, Differentiation*
		*: App installation required.

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		FFT:Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman-Harris.
觸發	來源	CH1, CH2, CH3, CH4, Line, EXT
	模式	自動(支援 100 ms/div 滾動模式和慢速),正常,單次序列
	類型	邊緣,脈波寬度(突波),影像, 矮脈波,上升/下降(斜率), Alternate, 事件延遲(1~65535 事件), 時間延遲(Duration) (10ns~10s), I^{2}C*, SPI*, UART*
		*選配
		Runt:Trigger on a pulse that crosses one threshold but fails to cross a second threshold before crossing the first again.
		SPI (optional):Trigger on SS, MOSI, MISO, or MOSI and MISO on SPI buses.
		I^{2}C (optional):Trigger on Start, Repeated Start, Stop, Missing ACK, Address (7 or 10 bit), Data, or Address and Data on I^{2}C buses.
		UART (optional):
		Trigger on Tx Start Bit, Rx Start Bit, Tx End of Packet, Rx End of Packet, Tx Data, Rx Data, Tx Parity Error, and Rx Parity Error.
	閉鎖範圍	10ns to 10s
	耦合	AC, DC, LF rej., Hf rej., Noise rej.
	靈敏度	GDS-31XX ~ GDS-33XX:
		DC ~ 50MHz Approx. 1div or 10mV
		50MHz ~ 150MHz Approx. 1.5div or 15mV
		150MHz ~ 350MHz Approx. 2div or 20mV
		GDS-350X:
		DC ~ 50MHz Approx. 1div or 1.0mV
		50MHz ~ 150MHz Approx. 1.5div or 15mV
		150MHz ~ 350MHz Approx. 2div or 20mV
		350MHz ~ 500MHz Approx. 2.5div or 25mV
外部觸發	範圍	±15V
	靈敏度	GDS-31XX ~ GDS-33XX:
		DC ~ 150MHz Approx. 100mV

		150MHz ~ 250MHz Approx. 150mV
		250MHz ~ 350MHz Approx. 150mV
		350MHz ~ 500MHz Approx. 200mV
	輸入阻抗	1MΩ±3%, ~16pF
水平	時基範圍	GDS-31XX, GDS-32XX, GDS-33XX:
		1ns/div ~ 100s/div (1-2-5 increments); ROLL : 100ms/div ~ 100s/div
		GDS-350X:
		1ns/div ~ 100s/div (1-2.5-5 increments); ROLL : 100ms/div ~ 100s/div
	預先觸發	10 div maximum
	後置觸發	1000 div maximum. The number of divisions depends on the time division.
	時基準確率	±20 ppm over any ≥1 ms time interval
X-Y 模式	X 軸輸入	通道 1;通道 3
	Y-軸輸入	通道 2;通道 4
	相位偏移	±3° at 100kHz
訊號獲取	及時取樣	150/250/300MHz 機種: 5GSa/s (MAX)
		150/250MHz2 通道機種: 2.5GSa/s
		500MHz 機種: 4GSa/s (MAX), 2GSa/s,每通道
	等時取樣	100GSa/s 最大,所有型號

	記憶體長度	25k 點/通道
	獲取模式	正常,平均,峰值檢測,高解析, Single Sequence
	峰值檢測(Glitch)	2ns(MAX)
		正常: Acquire sampled values.
		Average: From 2 to 256 waveforms included in average.
		Peak Detect: Captures glitches as narrow as 2 ns at all sweep speeds
		Hi Res: Real-time boxcar averaging reduces random noise and increases vertical resolution
游標量測	游標	振幅,時間, Gating available
	自動量測	28 sets: Vpp, Vamp, Vavg, Vrms, Vhi, Vlo, Vmax, Vmin, Rise Preshoot/Overshoot, Fall Preshoot/Overshoot, Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle, and nine different delay measurements (FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase)
	游標量測	游標電壓差 (ΔV)
		游標時間差(ΔT)
	自動量測	6 digits, range from 2Hz minimum to the rated bandwidth
電源量測(選配)	電源質量	V RMS, I RMS, True Power, Apparent Power, Reactive Power, Frequency, Power Factor, Phase Angle, V Crest Factor, I Crest Factor, (+)V Peak,
	測量	(-)V Peak, (+)I Peak, (-)I Peak, DC Voltage, DC Current, Impedance, Resistance, Reactance
	諧波	Frequency (Hz), Magnitude (%), Mag. RMS (A), Phase (◌), Limit (A), Limit (%), Pass | Fail, Max all , Windows (A), 200% Limit, POHC Limit, THD-F, THD-R, RMS, Overall, POHC, POHL, Input Power, Power Factor, Fundamental Current, Harmonic 3, Harmonic 5
	漣波量測	Ripple, Noise
	湧浪電流	First peak, Second peak

控制面板功能	自動設定	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo autoset
	自動範圍	allow you to quickly move from test point to test point without having to reset the oscilloscope for each test point
	儲存設定	20 組
	儲存波形	24 組
顯示	TFT LCD Type	8" TFT LCD SVGA color display
	顯示模式	YT, XY
	顯示解析度	800(水平) × 600 垂直 pixels (SVGA)
	補點	Sin(x)/x & Equivalent Time Sampling
	波形測試	Dots, vectors, variable persistence, infinite persistence
	顯示格數	8 x 10 divisions
	波形更新率	3500 waveforms per second maximum
介面	RS232C	DB-9 male connector
	USB 埠	2 sets USB 2.0 High-speed host port
		1 set USB High-speed 2.0 device port
	乙太網路埠(LAN)	RJ-45 connector, 10/100Mbps
	SVGA 影像埠	DB-15 female connector, monitor output for display on SVGA monitors
	GPIB	GPIB to USB adapter (選配)
	Go-NoGo BNC	5V Max, 10mA CMOS open collector output
	內部記憶體	64MB
	Kensington Style Lock	Rear-panel security slot connects to standard Kensington-style lock.
	線路輸出	3.5mm stereo jack for Go/NoGo audio alarm
電源	電壓範圍	AC 100V ~ 240V , 48Hz ~ 63Hz , Auto selection
	消耗功率	96VA
其他	多國語言選單	支援
	線上幫助	支援
	時鐘	Time and Date ,Provide the Date/Time for saved data
尺寸&重量	400W X 200H X 130D, Approx. 4kg	

探棒規格

探棒型號規格		
GTP-151R	適用於	GDS-3152 / GDS-3154
	頻寬	DC ~ 150MHz
	上升時間	2.3ns
	輸入電容	~12pF
	補償範圍	10 ~ 30pF
GTP-251R	適用於	GDS-3252 / GDS-3254
	頻寬	DC ~ 250MHz
	上升時間	1.4ns
	輸入電容	~12pF
	補償範圍	10 ~ 30pF
GTP-351R	適用於	GDS-3352 / GDS-3354
	頻寬	DC ~ 350MHz
	上升時間	1.0ns
	輸入電容	~12pF
	補償範圍	10 ~ 30pF
GTP-501R	適用於	GDS-3502 / GDS-3504
	頻寬	DC ~ 500MHz
	上升時間	0.7ns
	輸入電容	~11.5pF @ 100MHz
	補償範圍	8 ~ 20pF

常用探棒規格

位置 x 10	衰減	10:1 (fixed) with readout pin
	輸入阻抗	10MΩ when used with 1MΩ input oscilloscope
	最大輸入電壓	500V CAT I, 300V CAT II
		derating with frequency
操作環境	溫度	– 0°C ~ 50°C
	絕對溼度	≤85% @35°C
安規標準	EN61010-031 CAT II	