

GDS-3000A Series

650/350MHz Digital Storage Oscilloscope

FEATURES

- 650/350MHz Bandwidth, 2 or 4 Input Channels
- 5GSa/s Real-time Sampling Rate (Half Channels);
 2.5GSa/s Real-time Sampling Rate (All Channels)
- Per Channel 200Mpts Memory Depth
- 200,000 wfm/s of Waveform Update Rate
- 10.2 inch 800*480 TFT LCD Display
- 490,000 Segments of Segmented Memory and the Waveform Search Function to Optimize the Efficiency of Record Length
- Zoom Window and Play/Pause Rapidly Navigate the Waveforms
- 38 sets of Automatic Measurement Offer Various Measurement Selections
- High Resolution Acquisition Mode
- I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- Dual Channel Spectrum Analyzer (DC~2.5GHz) with spectrogram
- Dual Channel 25MHz Arbitrary Waveform Generator
- Optional 13 Sets of Power Analysis Measurements
- Optional 16 Digital Channels with a Logic Analyzer(MSO)
- Flexible Remote Control Connectivity (Standard: USB/LAN/RS-232; Option: GPIB)



One Oscilloscope with Time Domain, Frequency Domain and Power Measurement.

GDS-3000A digital storage oscilloscopes have 650MHz and 350MHz models with two-channel, four-channel and 16-channel logic analyzer options. The series features the memory length of each channel up to 200Mpts; the sampling rate of 5GSa/s half channels and 2.5GSa/s on all channels. Its display is 10.2" TFT LCD and it provides the color display mode.



Accurate Signal Acquisition and Analysis

GDS-3000A strengthens many functions and specifications required for oscilloscope measurements including the memory depth of up to 200Mpts per channel. The advantage of long memory is that it allows users to maintain high sampling rate even at low speed time settings; the waveform update rate is up to 200,000wfm/s; and the segmented memory can capture and analyze up to 490,000 segments.

For measurement, GDS-3000A incorporates the Fine scale function to allow users to fine-tune the vertical scale according to the requirements so as to achieve full scale measurement to improve its measurement accuracy. With a 10.2" large screen display and the acquisition method with the high resolution mode allow low-noise signals under high-bandwidth measurements. In addition, the series is equipped with 1M ohm and 50 ohm input impedance selections, which can be set according to different DUT measurement requirements to achieve the effect of impedance matching. The search function can quickly find the signals that meet the conditions according to the needs of the test. The cursor mark function allows users to clearly observe the voltage (or current), time and delta data of each point measured by the cursor. Via the indicator function, the measured range is to be shown at the specific section of the waveform.

Dual Domain Measurement

For frequency domain measurement, it is equipped with a dual channel spectrum analyzer, which allows users to measure and analyze the frequency domain signals of two channels at the same time. It is also equipped with Spectrogram function, which allows users to easily observe complex frequency domain fluctuations that are proportionally decomposed into simple superimposed waves so as to understand the signal strength distribution. The soft keys allow users to have more intuitive settings for operation, which can improve the measurement efficiency.

13 Sets of Switching Mode Power Supply Measurements

GDS-3000A provides a rich measurement items for switch mode power supply testing. The provided power supply test items include AC input analysis items: Power Quality, Harmonics, Inrush Current; DC output analysis required test items: Ripple/Noise, Transient Response Analysis, Turn On/OFF, Efficiency; Control Loop response(Bode) and PSRR(Power Supply Rejection Ratio); Complete switching component analysis items: Modulation, Switching loss, SOA(Safe Operation Area) and Magnetics analysis: B-H curve. On one side of GDS-3000A, a power supply for 50MHz (GCP-530) and 100MHz(GCP-1030) current probes is provided. This feature can save users the cost of purchasing the power supply for current probes and relief the burden of carrying the power supply when going out.

GDS-3000A is standardly equipped with a dual-channel 25MHz arbitrary waveform generator and the frequency response analysis function. The FRA has the load function, which can load multiple FRA measurement results for comparison. User define shortcut key provides user-definable shortcut keys. The use of the shortcut key can improve measurement efficiency.

GDS-3000A provides a rich communication interfaces. In addition to the commonly used USB Host, USB Device port, and LAN port, it also includes a highly stable RS232 interface and an optional GPIB interface.

SELECTION GUIDE					
Model	GDS-3352A	GDS-3354A	GDS-3652A	GDS-3654A	
Bandwidth	350MHz	350MHz	650MHz	650MHz	
Channels	2	4	2	4	
Record Length	200M / CH	200M / CH	200M / CH	200M / CH	
Real-time Sampling Rate	Max. 5 GSa/s	Max. 5 GSa/s	Max. 5 GSa/s	Max. 5 GSa/s	
Built-in	Dual Channel Spectrum Analyzer(DC~2.5GHz) with Spectrogram				

B. 200M MEMORY DEPTH PER CHANNEL INDEPENDENTLY



With respect to the waveform display technology, the GDS-3000A series oscilloscope is capable of displaying RGB color gradients with 8 bits each which can delineate the profound gradational fluctuations; as if it can recreate the analog oscilloscope display capability. When a composite signal is input, the GDS-3000A series, has the ability to precisely reveal the colored burst signal and to show details of layers with the brightness. Hence, the dull monochrome waveform is imbued with vitality, it allows users to easily determine and analyze waveforms.



The GDS-3000A series oscilloscope has a powerful and incomparable memory depth for the data retrieving. 200M memory depth per channel independently surpasses the specification of the industry's 3000 series DSO boundary. 200M memory depth allows users to easily seize the waveform detail while conducting fundamental measurement applications.





The Fine scale function is incorporated to allow users to fine-tune the vertical scale according to their needs to achieve full-scale measurement and improve the accuracy of the voltage or current measurements.

D. HIGH RESOLUTION ACQUISITION MODE



The acquisition method with high resolution mode is provided to effectively remove noise and improve the accuracy of automatic measurement.

. 38 ITEMS OF AUTO MEASUREMENT SELECTION AND THE STATISTICS FUNCTION







The GDS-3000A series soundly provides 38 measurement items. Based upon the parameters such as voltage, current, time, frequency, and delay measurement, users can decide which measurement items to choose. On the single display screen, the GDS-3000A series provides 8 measurement selections.

The statistics mode can also be selected for users to analyze the mean value, the maximum, the minimum, and standard deviation of the retrieved waveforms to ensure signal's integrity and identify abnormal waveforms.

Users can also use the Measure Shortcuts function to select the item to be measured, and then store the selected item in Shortcut 1~4, which can be selected to conduct measurements for the same product next time. Users just select the previously stored Shortcut 1~4 without making new selections from Add measurement, and all the measurement items will be displayed on the screen to improve the measurement efficiency.

490,000 SEGMENTED MEMORY





In addition, GDS-3000A incorporates the Mask determination function under Segment, allowing users to quickly analyze abnormal waveforms that exceed the target range.

As the length of the sampling memory increases to 200Mpts, the number of acquisitions that can be set in the GDS-3000A's segmented memory at one time has also increased significantly, and up to 490,000 waveforms can be stored continuously (under the condition of the memory length of 1,000pts).

The segmented memory allows users to capture and observe interesting waveforms. Through the statistical function, it is especially helpful for finding sporadic problems in continuous events.

WAVEFORM SEARCH FUNCTION



Users can rapidly search desired waveforms according to the trigger condition. After activating the search function, hollow inverted triangles will show the location met the trigger condition. The upper left hand corner Overall will show the total number of waveforms met the trigger condition. Users can set waveform search by the trigger condition such as Edge, pulse width, Runt, Rise/Fall, and Bus.

Set/Clas

When the trigger condition is met, hollow inverted triangles will appear. Users can save all marks to compare with the next input signal. The front panel of the GDS-3000A Series controls waveform zoom-out and play/pause function to swiftly identify each desired event. The function allows users to conveniently complete waveform search and save marks for rapid comparison and analysis.

H. USER DEFINE KEY



GDS-3000A incorporates a User Define key to allow users to set any one of the ten functions of User Define based upon the measurement requirement, including XY/YT; Reset all positons to 0; Measure all On/Off; Measure statistics On/Off; Segments On/ Off; AWG output On/Off; Auto/Normal; Clear persistence; Freeze display and transparent readouts On/Off. Users can quickly select the function setting by just pressing a key to quickly meet the measurement needs so as to improve the measurement efficiency. SPECTRUM ANALYZER FUNCTION



Spectrum Analyzer



Spectrum Analyzer +

Spectrogram



Dual Spectrum Analyzer

Dual Spectrum Analyzer + Spectrogram

For frequency domain measurement, dual channel spectrum analyzer is equipped. Users can measure and analyze dual channel frequency domain signals at the same time. It also includes the Spectrogram function, which allows users to easily observe the signal's strength distribution and the relationship of the spectrum distribution over time. The independent numeric key input on the panel makes the operation more convenient for users, thereby improving the measurement efficiency. For promotion selling point, dual Spectrum Analyzer and Spectrogram can test the frequency response of the left and right channels of the Audio Amplifier at the same time.

The above displays are :

- 1. Spectrum Analyzer
- 2. Spectrum Analyzer + Spectrogram
- 3. Dual Spectrum Analyzer (Dual channels can set different conditions)
- 4. Dual Spectrum Analyzer + Spectrogram

25MHZ DUAL CHANNEL ARBITRARY WAVEFORM GENERATOR







* The above two displays are load from CH1, and then it was generated by AWG to CH3

GDS-3000A is standardly equipped with a 25MHz dual channel arbitrary waveform generator, and provides built-in Sine, Square, Pulse, Ramp, DC, Noise, Sinc, Gaston, Lorentz, Exponential Rise, Exponential Fall, Haversine, Cardiac and other waveforms. Users can be directly input the amplitude and frequency of the signal through the numeric keys. Compared with the previous model, the new function is that users can select the arbitrary waveform function of the AWG to store the signal measured by the analog channel of the oscilloscope to the arbitrary waveform of the signal source (UAW file), or it can directly output this signal from the signal generator, which is a new function that allows users to conveniently generate various measured signals to simulate diversified signal outputs.

K. PC REMOTE CONTROL (WEB SERVER FUNCTION)



GDS-3000A has a built-in Web Server function to allow users to connect GDS-3000A's Web Server by using a browser in the same network domain via Ethernet connection. System information can be obtained and the oscilloscope screen (. png file) can be observed and captured remotely. GDS-3000A can be controlled remotely through GUI to download and upload configuration files and test SCPI commands. Users can use this function to obtain oscilloscope information and configuration files, and operate remote control even if they are not on-site.

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L. POWER ANALYSIS FUNCTIONS

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13 Sets of Switching Mode Power Supply Measurements

In daily life, switching power supplies have become the mainstream of power supplies. Engineers often have to rack their brains in order to improve product performance and reduce switching loss, and Ripple/Noise.

GDS-3000A has an option of rich measurement items for switching mode power supply testing. To meet engineers' measurement needs for switching mode power supply, rich measurement function can help engineers save a lot of measurement computing time and improve product development efficiency.



Power Quality

For AC voltage and current measurement, its distortion and other abnormal phenomena will affect the power consumption, efficiency and reliability of the power supply.

Measurement items: current/voltage root mean square value, actual power, reactive power, frequency, power factor, phase angle, +/- V Peak, +/- I Peak, AC/DC voltage and current, voltage/current crest factor, impedance, resistance and reactance.



Transient Response Analysis

Output analysis required test items: Ripple/Noise, Transient response analysis, Turn On/OFF and Efficiency. It measures the time required for the output DC voltage to reach the stable level expected by users when the output load changes suddenly.

Measurement item: transient response value (s).



Switching Loss

Switching component analysis items: Switching loss, SOA (Safe Operation Area) and Modulation analysis.Analyze the integral of the product of the voltage and current of the switching device (MOSFET or IGBT) in the power supply, and then measure the switching loss of the device, including Turn-on switching loss, Turn-off switching loss and Conduction loss. The higher the switching frequency, the higher the Turnon and Turn-off switching loss. Measurement items: power loss, energy loss & Rds(on)/Vce(sat).



Control Loop Response

Control Loop Response and PSRR (Power Supply Rejection Ratio) PSRR: Power supply rejection ratio (PSRR) analysis, which is used to confirm that power equipment suppresses ripple noise in different frequency ranges. Measurement items: frequency and PSRR (dB).



Magnetics Analysis

Magnetics Analysis (B-H Curve): The characteristics of magnetic materials are divided into magnetic flux density (B), magnetic field strength (H) and material magnetic permeability (μ). The B-H diagram is usually used to verify the saturation of the magnetic components in the switch power supply.

Measurement items: Measure the voltage and current flowing through the magnetic component and draw a B-H diagram.

1. OPTIONAL 16-CHANNEL LOGIC ANALYZER



GDS-3000A can be upgraded to a mixed-signal oscilloscope (MSO) by selecting an optional 16-channel logic analyzer, which is a plugin. When you have several GDS-3000As, you can plug in an optional logic analyzer to other unit at any time without installing any software.



Users can analyze digital signals, I²C, SPI, UART, CAN, LIN and parallel bus through a logic analyzer.

PANEL INTRODUCTION



- 1. Hardcopy Key
- 2. Function Keys
- 3. Number Keys
- 4. Power Analysis and Spectrum Analyzer Functions
- 5. Trigger Controls
- 6. Zooming Controls
- 7. Search Function

- 8. Math, Reference & Bus Keys
- 9. User Define Key
- 10. Logic Analyzer and Arbitrary Waveform Generator Functions
- 11. Logic Analyzer Probe Connector
- 12. Trigger Out/Calibration Output
- 13. Go/NoGo Output
- 14. Dual Channel Arbitrary Function Generator Output
- 15. VGA Ooutput
- 16. RS232 Interface
- 17. USB Device Port
- 18. LAN Port
- 19. GPIB Interface (Optional; Factory Install)
- 20. Power Supply Output for GCP-530 or GCP-1030 Current Probe

SPECIFICATIONS

		GDS-3352A	GDS-3354A	GDS-3652A	GDS-3654A		
VERTICAL	Channels	2Ch+EXT	4Ch+EXT	2Ch+EXT	4Ch+EXT		
	Bandwidth Calculated Rise Time	DC~350MHz(-3dB)@50Ω/1M 1ns	Ω input impedance	DC~650MHz(-3dB)@50Ω input impedance; DC~500MHz(-3dB)@1MΩ input impedance 535ps			
	Bandwidth Limit	20M/100M/200MHz ⁼¹		20M/100M/200M/300MHz ^{*1}			
	Vertical Resolution Vertical Resolution(1MΩ) Vertical Resolution(50Ω) Input Coupling Input Impedance DC Gain Accuracy Polarity	8 bits (Max.12bits with Hi Res) *1. The tolerance of bandwidth limit is±10%. 1mV ² ~ 10V/div *2. The bandwidth is limited to 20MHz at 1mV/div and 2 1mV ² ~ 1V/div *2. The bandwidth is limited to 20MHz at 1mV/div and 2 1mVΩ// 22pF approx. 1mV: ±5% full scale ; ≥2mV : ±3% full scale Normal , Invert 5					
	Maximum Input Voltage(1MΩ) Maximum Input Voltage(50Ω) Offset Position Range Waveform Signal Process	300Vrms, CAT II 5 Vrms For 1MΩ input impedance:1mV/div~20mV/div:±1V;50mV/div~500mV/div:±10V;1V/div~5V/div:±100V;10V/div:±100 For 50Ω input impedance:1mV/div~50mV/div:±1V;100mV/div~1V/div:±10V +, -, X,÷, FFT, User Defined Expression FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS,					
	and FFT Window to Rectangular, Hamming, Hanning or Blackman.						
TRIGGER	Source Trigger Mode Trigger Type	2CH models: CH1, CH2, Line, EXT; 4CH models: CH1, CH2, CH3, CH4, Line, EXT Auto(Supports Roll Mode for 100ms/div and slower), Normal, Single Edge, Pulse Width(Glitch), Video, Pulse Runt, Rise & Fall(Slope), Time out, Alternate, Event-Delay(1~65,535 events), Time-Delay(Duration, 4ns-10s), Bus(1 ² C,SPI, UART,CAN,LIN)					
	Trigger Holdoff Range Coupling Sensitivity	4ns~10s AC, DC, LF rej. , HF rej. , Noise rej. 1div					
EXT TRIGGER	Range Sensitivity Input Impedance	±20V DC ~ 100MHz Approx. 100mV ; 100MHz ~ 350MHz Approx. 150mV 1MΩ±3% ~ 22pF					
HORIZONTAL	Range Pre-trigger Post-trigger Accuracy	Ins/div ~ 1000s/div (1-2-5 increments); ROLL : 100ms/div ~ 1000s/div 10 div maximum 10,000,000 div max (depend on time base) ±5ppm, about ±2ppm increase in error per year					
X-Y MODE	X-Axis Input/Y-Axis Input Phase Shift	Channel 1, Channel 3 (for 4CH models); Channel 2, Channel 4 (for 4CH models) ±3° at 100kHz					
SIGNAL ACQUISITION	Real Time Sample Rate Record Length Acquisition Mode Number of Segments	5GSa/s half channels; 2.5GSa/s all channels Max.200M pts/CH Normal, Average, Peak detect, High resolution, Single ; Average: Selectable from 2 ~ 256, Peak detect: 400ps 1 ~ 490,000 maximum			6, Peak detect: 400ps		
CURSORS AND MEASUREMENT	Cursors Automatic Measurement Cursors Measurement Auto Counter	Amplitude, Time, Gating available; Unit:Seconds(s), Hz(1/s), Phase(degree), Ratio(%) 38 sets with indicator: Pk-Pk, Max, Min, Amplitude, High, Low, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, ROVShoot, FOVShoot, RPREShoot, FPREShoot, Frequency, Period, RiseTime, FallTime, +Width, -Width, Duty Cycle, +PL -Pulses, +Edges, -Edges, %Flicker, Flicker Idx ,FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase. Voltage difference between cursors (△V) Time difference between cursors (△T) 6 digits, range from 2Hz minimum to the rated bandwidth					
CONTROL PANEL FUNCTION	Auto Counter Autoset Save Setup Save Waveform Save Reference Waveform	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with "Undo Autoset" "Fit Screen"/ "AC Priority" mode, and "Fine Scale" functions. 20 sets 20 sets 20 sets 4 sets			is, with "Undo Autoset",		
POWER MEASUREMENTS (Option)		Power Quality, Harmonics, Ripple Response, PSRR, Turn On/Off	e, In-rush current, Switching Loss	, Modulation, SOA, Transient, Effic	ciency, B-H curve, Control Loop		

		GDS-3352A	GDS-3354A	GDS-3652A	GDS-3654A
AWG	Channels Sample Rate Vertical Resolution Max. Frequency Waveforms Output Range Output Resolution Output Accuracy Offset Range Offset Resolution Sine Square/Pulse Ramp	2 200 MSa/s 14 bits 25 MHz Sine, Square, Pulse, Ramp, DC 20 mVpp to 5 Vpp, HighZ;10 n 1mV 2% (1 kHz) ±2.5 V ac+dc, High Z; ±1.25 V 1mV Frequency Range:100mHz-25M Stray(Non-harmonic):-40 dBc; Frequency Range:100mHz-151 Min. Pulse Width:30 ns; jitter:	, Noise, Sinc, Gaston, Lorentz, 1Vpp to 2.5 Vpp, 50Ω ac+dc, 50Ω 1Hz;Flatness(relative to 1kHz):± Total Harmonic Distortion:1% MHz ; Rise/Fall time:<15ns ; Ο	Exponential Rise, Exponential Fall, Have 0.5 dB<15MHz,±1dB(15MHz~25MHz);F (S/N Ratio:40 dB rershoot: <3% ; Duty cycle Square:50% &	ersine, Cardiac Harmonic Distortion:-40 dB
SPECTRUM ANALYZER	Frequency Range Span Resolution Bandwidth Reference Level Vertical Units Vertical Position Vertical Scale Display Average Noise Level Spurious Response Frequency Domain Trace Types Detection Methods FFT Windows	DC ~ 2.5GHz(Max.) dual channel with spectrogram (based on advanced FFT). Notice: Frequency which exceeds anal front end bandwidth is uncalibrated 1kHz ~ 2.5GHz(Max.) 1Hz ~ 2.5GHz(Max.) -80 dBm to +40dBm in steps of 5dBm dBV RMS; Linear RMS; dBm -12divs to +12divs 1dB/div to 20dB/div in a 1-2-5 Sequence 1V/div < -40dBm, Avg : 16 ; 100mV/div < -60dBm, Avg : 16 ; 10mV/div < -80dBm, Avg : 16 2nd harmonic distortion<35dBc ; 3rd harmonic distortion< 40dBc Normal ; Max Hold ; Min Hold ; Average (2 ~ 256) Sample ; +Peak ; -Peak ; Average FFT Factor : Hanning 1.44 ; Rectangular 0.89 ; Hamming 1.30 ; Blackman 1.68			cy which exceeds analog
LOGIC ANALYZER (Option)	Sample Rate Bandwidth Record Length Input Channels Trigger Type Thresholds Quad Threshold Selections User-defined Threshold Range Maximum Input Voltage Minimum Voltage Swing Vertical Resolution	Per Channel 1GSa/s 200MHz Per Channel 10M pts (max) 16 Digital (D15 - D0)	ial bus (I²C, SPI, UART, CAN, LIN D15 Thresholds		
FREQUENCY RESPONSE ANALYSIS	Frequency Range Input and Output Sources Number of Test Points Dynamic Range Test Amplitude Test Results Manual Measurements Plot Scaling	10, 15, 30, 45, 90 points per d > 80 dB (typical) 10mVpp to 2.5Vpp into 50Ω,	20mVpp to 5Vpp into High-Z, gain and phase plot, may also analysis	els scale; 2 ~ 1000 points selectable for lin Fixed test amplitude or custom amplitu overlay with reference plots for cross c	ude for each decade.
DISPLAY SYSTEM	TFT LCD Type Waveform Update Rate Display Resolution Interpolation Waveform Display Display Graticule Display Mode	10.2" TFT LCD WVGA color 200,000 wfms/sec max. 800 horizontal x 480 vertical Sin (x)/x	pixels (WVGA)	rsistence,gray and color waveforms	
INTERFACE	RS-232C USB Port Ethernet Port VGA Video Port Optional GPIB Module Go/NoGo BNC Kensington Style Lock Power Supply Receptacles	DB-9 male connector USB 2.0 high-speed host port x 1 ; USB high-speed 2.0 device port x 1 RJ-45 connector, 10/100Mbps with HP Auto-MDIX DB-15 female connector, monitor output for display on VGA monitor Fully programmable with IEEE488.2 compliance 5V Max/10mA open collector output Rear-panel security slot connects to standard Kensington-style lock ±12V/500mA for current probe usage.2 sets for 2CH models;4 sets for 4CH models			
MISCELLANEOUS	Operating Line Voltage Range Multi-Language Menu On-Line Help Time Clock Internal Flash Disk Installed APP User Define Key	0°C ~ 50°C, Relative Humidity≤80% at 40°C or below ;≤45% at 41°C~50°C AC 100V ~ 240V, 50Hz ~ 60Hz, auto selection. power consumption:100W Available Available Time and date, provide the date/time for saved data 800M bytes Single-Level Cell flash memory Go/NoGo, DVM, DataLog, Digital Filter, Frequency Response Analyzer, Mask, Mount Remote Disk, Demo User can select one of the several different preset functions as shortcut key			emo
DIMENSIONS & WEIGHT	420(W) X 253(H) X 113.8(D)m	nm, Approx. 4.6 kg			
ote : Three-year warranty, e	xcluding probes & LCD display par	nel.	Specific	ations subject to change without notice.	DS-3000AGD1B

CIELING					
GDS-3652A	650MHz, 2-Channel, Digital Storage Oscilloscope				
GDS-3654A	650MHz, 4-Channel, Digital Storage Oscilloscope				
GDS-3352A	350MHz, 2-Channel, Digital Storage Oscilloscope				
GDS-3354A	350MHz, 4-Channel, Digital Storage Oscilloscope				
ACCESSORIES					
User manual CD x 1, Power cord x 1 GTP-351R:350MHz 10:1 passive probe for GDS-3352A/3354A(one per channel) GTP-501R:500MHz 10:1 passive probe for GDS-3652A/3654A (one per channel)					
FREE DOWNL	OAD				
PC Software	OpenWave software	Driver	LabView driver		

GOOD WILL INSTRUMENT CO., LTD.



OPTIONAL ACCESSORIES

GDP-025

GDP-050

GDP-100

GCP-300

GTP-033A 35MHz 1:1 Passive probe GTP-352R 350MHz 20:1 Passive probe

GCP-500S00KHz/150A Current probeGCP-530S00KHz/150A Current probeGCP-10001MHz/70A Current probeGCP-1030100MHz/30A Current probe



25MHz High voltage differential probe

50MHz High voltage differential probe

300kHz/200A Current probe

100MHz High voltage differential probe



GPIB Cable, Double Shielded, 2000mm

Test lead, BNC to BNC connector RS-232C cable, 9-pin female to

9-pin female, Null modem for

USB 2.0 cable, A-B type cable 4P,

computer

1800mm GRA-443-E Rack Adapter Panel

Deskew Fixture

GTL-248

GTL-110

GTL-232

GTL-246

GKT-100