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# 32/16 CHANNEL 200MHz PC BASED LOGIC ANALYZER




GLA-1000 Series is a palm-size PC based logic analyzer with functionality matching that of a desktop device. The maximum 32 channels, 200MHz internal sampling rate, 1Mbits of data memory and advanced trigger settings give user higher accuracy and longer data analysis result. The unique features " Data-loss-less compression " , " Enable Qualifier " and " Serial Bus Protocol Analyzer " provide engineers & professionals with a mean, which can adequately handle today's digital system analysis. The whole captured data and setting of GLA-1000 Series could be saved as various types of files into PC for further data analysis, reporting, and other applications. The USB 2.0 communication between GLA-1000 Series and the PC guarantees the secured data transfer at the maximum speed while providing GLA-1000 Series with power source.

## GLA-1000 Series

CE USB PC Software

## FEATURES

* **32/16 Input Channel**
* **Time Analysis : Up to 200MHz Internal Sampling Rate**
* **State Analysis : Up to 100MHz External Input Clock**
* **Memory Depth : Up to 2Mbits/1Mbits (Half/Full Channels)**
* **Advanced Trigger : Count, Page, Time Delay and Clock Event Delay**
* **Data Compression : Up to 255 Times Data Capture**
* **Enable Qualifier : High/Low Level Enable and Enable Delay Function**
* **Signal Analyzer : $I^2C$ , RS-232C Protocol Analyzer and Signal Statistics**
* **File Export : Signal Data, Operation Setting and Display Image**
* **Manual Trigger Start Button**
* **High-Speed Communication : USB 2.0 (1.1 Compatible)**
* **USB Powered, Without External AC Power**



## SPECIFICATIONS

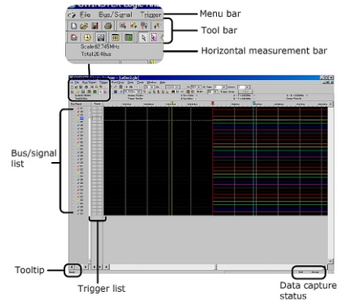
| | GLA-1016 | GLA-1032 | GLA-1132 |
|---|---|---|---|
| **CHANNELS** | | | |
| | 16 | 32 | 32 |
| **MEMORY TOTAL/PER CHANNEL** | | | |
| | 4Mbits/256kbits | 4Mbits/128kbits | 32Mbits/1Mbits |
| **INTERFACE** | | | |
| | USB 2.0 (1.1) | | |
| **OPERATING SYSTEM** | | | |
| | Win98/98SE/Me/2000/XP | | |
| **TIMING ANALYSIS** | | | |
| | Maximum 200MHz | | |
| **STATE ANALYSIS** | | | |
| | 0.001Hz ~ 100MHz | | |
| **TRIGGER** | | | |
| **Channel** | 16 (GLA-1016), 32 (GLA-1032/1132) | | |
| **Condition** | Edge/Pattern | | |
| **Pre/Post trigger** | 0%~100% | | |
| **Level** | 1 | | |
| **Threshold** | +6V ~ -6V | | |
| **Accuracy** | 93mV | | |
| **Delay** | Time delay, clock event delay | | |
| **Count** | 1 ~ 65535 | | |
| **Page** | Maximum 8191 | | |
| **INPUT** | | | |
| **Maximum Input Voltage** | 30V | | |
| **Impedance** | 500k /10pF | | |
| **Data Skew** | < 1.5ns | | |
| **ENABLE QUALIFIER** | | | |
| **Channel** | 16 (GLA-1016), 32 (GLA-1032/1132) | | |
| **Enable Condition** | Don't care, Low, High | | |
| **Enable Delay** | 1~65535ms | | |
| **DATA** | | | |
| **Compression Channels** | 16 (GLA-1016), 24 (GLA-1032/1132) | | |
| **Compression Ratio** | Maximum 255 | | |
| **Signal Statistics** | Postive/Negative, Full cycle within length condition | | |
| **Protocol Analyzer** | $I^2C$, RS-232C | | |
| **CURRENT CONSUMPTION** | | | |
| **Static** | Maximum 200mA | | |
| **Working** | Maximum 400mA | | |
| **POWER DISSIPATION** | | | |
| **Static** | Maximum 1W | | |
| **Working** | Maximum 2W | | |
| **POWER** | | | |
| **Interface** | USB | | |
| **Working voltage** | 4.5V ~ 5.5V | | |
| **DIMENSION & WEIGHT** | | | |
| 137(W) x 39(H) x 102(D) mm ; Approx. 340g | | | |

## ORDERING INFORMATION

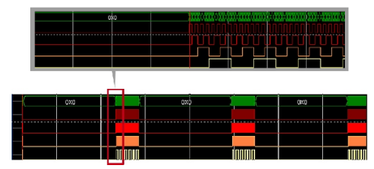
**GLA-1016** 16 channels, 256Kbit/channel
**GLA-1032** 32 channels, 128Kbit/channel
**GLA-1132** 32 channels, 1Mbit/channel (Long memory)

ACCESSORIES :
User manual x 1 , Carrying Case , Software CD-ROM
Testing Probes - GTL-161 : 16 channel, 25cm (8pin x 2, 2pin x 1, 1pin x 1) for GLA-1016
Testing Gripper - GCP-201 : 20 pcs. signal grippers for GLA-1016
Testing Gripper - GCP-201 x 2 : 40 pcs. signal grippers for GLA-1032/1132
USB Cable - GTL-243 : USB2.0 cable, A-B type

### A. Friendly PC Operation with GUI Environment

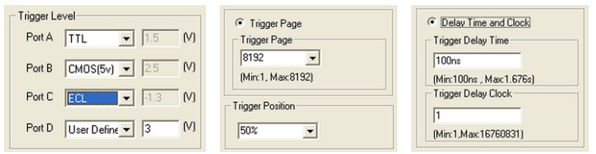



### B. Losses Data Compression



Up to x 255
Memory Utilization

### C. Advance Trigger Functionalities




Level Configuration, Count/Page Delay, Time and Clock Event Delay

## GTL-161 Testing Probes

16 channel, 25cm (8pin x 2, 2pin x 1, 1pin x 1)
For : GLA-1016



## GCP-201 Testing Gripper

20 pcs. signal grippers
For : GLA-1016/1032/1132





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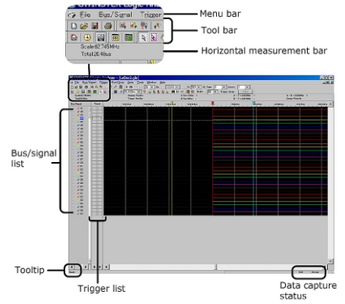
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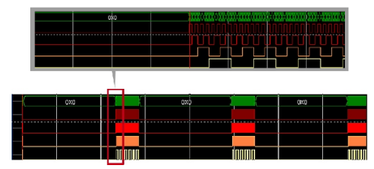
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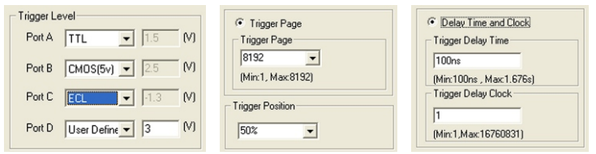



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