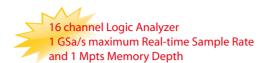
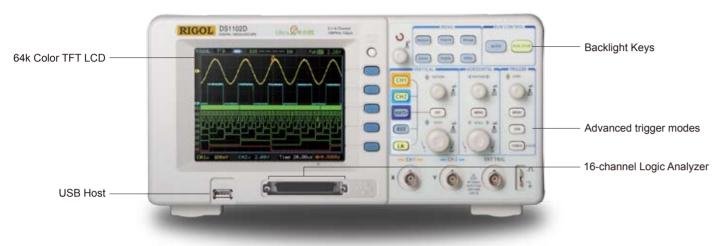
DS1000E · DS1000D Series Digital Oscilloscope





Product Dimensions: Width×Height×Depth=303mm×154mm×133mm Weight: 2.4 kg

► Application Areas

· Design and debug · Manufacturing · Education and Training · Service and Repair

► Features and Benefits

- 1. A true mixed signal oscilloscope with a 16 channel Logic Analyzer (DS1000D)
- 2. 1 GSa/s maximum Real-time Sample Rate and 1 Mpts Memory Depth
- 3. Bandwidth options: 50MHz and 100MHz
- 4. Extensive set of trigger modes including: Edge, Video, Pulse Width, Slope, Alternate
- 5. 64 k TFT Color LCD, bright and vivid waveform display
- 6. Direct print to PictBridge compatible printers via USB Device interface
- 7. Compact design to save your desktop space

Model	DS1102E	DS1052E	DS1102D	DS1052D
Bandwidth	100 MHz	50 MHz	100 MHz	50 MHz
Logic Analyzer	×		√	

▶ Specifications

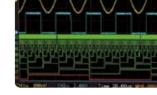
Model	DS1102E	DS1052E			
	DS1102D	DS1052D			
Bandwidth	100 MHz	50 MHz			
Channels	2 Channels + External Trigger				
Real-time Sample Rate	1 GSa/s (Single Channel), 500 MSa/s (Dual Channels)				
Equivalent-time Sample Rate 25 GSa/s		10 GSa/s			
Rise Time	3.5 ns	7 ns			

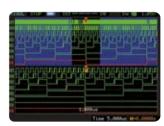
Memory Depth	Channel Mode	Sample Rate	Normal Memory	Long Memory	
momery Bepar	Single Channel	1GSa/s	16 kpts	N.A.	
	Single Channel	500MSa/s or lower	16 kpts	1Mpts	
	Dual Channels	500MSa/s or lower	8 kpts	512 kpts	
T			•		
Timebase Range	2 ns/div ~ 50s/div 5 ns/div ~ 50s/div				
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate				
Vertical Resolution	8 bits				
Vertical Sensitivity	2 mV/div ~ 10V/div				
Maximum Input Voltage	All inputs 1MΩ II 15pF 300V RMS CAT I				
Input Coupling	DC, AC, GND				
Roll Range	500ms/div ~ 50s/div				
Cursor Measurements	Manual, Track and Auto Measure modes				
Math	+, -, ×, FFT				
Internal Stroge	10 Waveforms and 10 Setups				
USB Storage	BMP, CSV, Waveforms and Setups				
Connectivity	USB Device, USB Host, RS-232, P/F Out				
Display	5.6" TFT (64 k, Color LCD), 320×234 resolution				
Power Supply	AC: 100 ~ 240 VACRMS, 45 ~ 440 Hz, CAT II, 50 VA Max				
MSO Logic Analyzer	DS1	102D	DS1	1052D	
Channels	16 logic Channels				
Sample Rate	200MSa/s (each channel)				
Record Length	512 kpts (each channel)				
Trigger Modes	Pattern, Duration				
Threshold Selections	TTL=1.4V, CMOS=2.5V, ECL=-1.3V, USER=-8V to + 8V				

► DS1000D Logic Analyzer Module

Mixed Signal Oscilloscope (MSO) with 16 channels Logic Analyzer (LA).LA is divided into two groups: D7-D0, D15-D8. Each works separately.





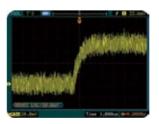


Logic Analyzer Module

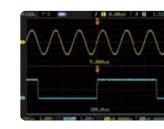
Pattern Trigger
The trigger condition is a combination of the level of the signal and the edge

Duration Trigger
A combination of Pattern Trigger
and Pulse Width Trigger capabilities
make isolation of events easy

► Advanced trigger modes



Adjustable Trigger Sensitivity
The ability to filter noise from the signal avoids false triggers



Alternate Trigger
Provides a true dual timebase
display



Slope Trigger
Triggers on the signals rise time or
fall time is user defined

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