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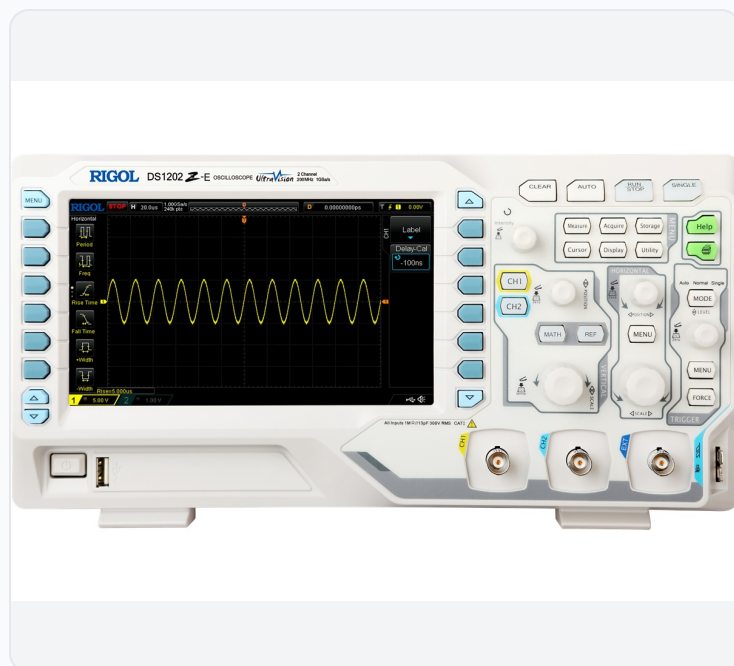
Data Sheet

August 13, 2026

RIGOL

Rigol DS1102D 1G Sr 16 Channels 100 Mhz Mixed Signal Oscilloscope Logic Analyzer

Rigol DS1102D 100 MHz Mixed Signal Oscilloscope 2 Analog plus 16 Digital The DS1102D is the 100 MHz mixed signal oscilloscope in the DS1000D family. It provides 2 analog channels, 1 external trigger, and a 16 channel logic analyzer (groups D0 to D7 and D8 to D15). Real-time sample rate is 1 GSa/s (single analog) or 500 MSa/s (dual). Equivalent-time sample rate is 25 GSa/s. Typical rise is less than 3.5 ns. Memory is 16 kpts at 1 GSa/s; long memory 1 Mpts (single at or below 500 MSa/s) or 512 kpts dual. Logic sample rate is 200 MSa/s per channel with 512 kpts. Timebase 2 ns/div to 50 s/div. 5.6 inch 320 × 234 64k color TFT. USB Host/Device, RS-232, pass/fail. 100 to 240 V, 50 VA max. The DS1102D is the 100 MHz mixed signal oscilloscope in the DS1000D family. It provides 2 analog channels, 1 external trigger, and a 16 channel logic analyzer (groups D0 to D7 and D8 to D15). Real-time sample rate is 1 GSa/s (single analog) or 500 MSa/s (dual). Equivalent-time sample rate is 25 GSa/s. Typical rise is less than 3.5 ns. Memory is 16 kpts at 1 GSa/s; long memory 1 Mpts (single at or below 500 MSa/s) or 512 kpts dual. Logic sample rate is 200 MSa/s per channel with 512 kpts. Timebase 2 ns/div to 50 s/div. 5.6 inch 320 × 234 64k color TFT. USB Host/Device, RS-232, pass/fail. 100 to 240 V, 50 VA max. 100 MHz analog plus 16 digital mixed signal debug



MODEL

Rigol DS1102D

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DS1102D

LISTING

<https://aumictechlabs.com/products/ds1102d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rigol DS1102D is a mixed-signal oscilloscope combining 2 analog channels with a 16-channel logic analyzer for simultaneous analog and digital signal analysis. It captures fast-changing signals at 1 GSa/s (single channel) or 500 MSa/s (dual channels) with 100 MHz bandwidth and 25 GSa/s equivalent sample rate. Deep memory up to 1 Mpts on a single channel enables extended waveform capture for complex signal examination. The instrument supports edge, video, pulse width, slope, alternate, pattern, and duration trigger modes with adjustable sensitivity, making it flexible for identifying specific signal events across analog and digital domains.

Technical Specifications

Analog Section 2 analog channels with 100 MHz bandwidth Real-time sample rate: 1 GSa/s (single channel), 500 MSa/s (dual channels) Equivalent sample rate: 25 GSa/s Memory depth: 16 kpts (single channel), 8 kpts (dual channels); up to 1 Mpts (single) and 512 kpts (dual) in long memory mode Vertical resolution: 8 bits Vertical sensitivity: 2 mV/div to 10 V/div Input coupling: DC, AC, GND Rise time: 3.5 ns Maximum input voltage: 300 V RMS CAT II Logic Analyzer Section 16 channels at up to 200 MSa/s sample rate Timebase Range: 2 ns/div to 50 s/div Roll range: 500 ms/div to 50 s/div Trigger Modes Edge, Video, Pulse Width, Slope, Alternate, Pattern, Duration Math & Measurements Math functions: +, -, ×, FFT, Invert 20 automatic measurements (10 voltage, 10 time parameters) Cursor measurements: Manual, Track, Auto modes Display 5.7-inch TFT LCD, 64,000 colors, 320 × 234 resolution

Key Features Pass/Fail testing capability UltraZoom and FFT analysis Internal storage: 10 waveforms, 10 setups USB storage support: BMP, CSV, waveforms, setups Dual-channel operation with reduced sample rate maintains 1 GSa/s equivalent performance

Interfaces & Connectivity USB 2.0 Host and Device RS-232 LAN connectivity Pass/Fail output

Included Accessories 2 passive 1× / 10× probes (1.5 m length) Logic analyzer data cable with active logic head adapter 20 measurement clamps and 20 measurement cables USB data cable and power cord

Power & Physical 100 to 240 VAC RMS, 45 to 440 Hz, 50 VA max. Dimensions: 303 mm (W) × 154 mm (H) × 133 mm (D). Weight: 2.5 kg.

DS1102D Characteristics / Specifications

PARAMETER	VALUE
Triggers	Edge, Pulse Width, Slope, Video, Alternate, Pattern, Duration 8 bit analog; 2 mV/div to 10 V/div Timebase 2 ns/div to 50 s/div 10 waveforms and 10 setups stored PictBridge USB print Technical Specifications
Model	DS1102D
Manufacturer	Rigol
Instrument Type	Mixed signal oscilloscope
Alias	DS1102D; RIGOL DS1102D; DS1000D 100 MHz
Analog Bandwidth	100 MHz
Single Shot Bandwidth	100 MHz
Analog Channels	2 plus external trigger
Digital Channels	16
Real Time Sample Rate Single	1 GSa/s
Real Time Sample Rate Dual	500 MSa/s
Equivalent Sample Rate	25 GSa/s
Rise Time Typical	less than 3.5 ns
Analog Resolution	8 bit
Vertical Scale	2 mV/div to 10 V/div
Analog Input Impedance	1 MOhm parallel 15 pF
Analog Max Input	300 Vrms CATIBandwidth Limit: 20 MHz typical
Lower Frequency AC	less than or equal to 5 Hz at BNC
Timebase Scale	2 ns/div to 50 s/div
Normal Memory 1 GSa/s	16 kpts
Long Memory Single at or below 500 MSa/s	1 Mpts
Long Memory Dual	512 kpts
Logic Sample Rate	200 MSa/s each channel

PARAMETER	VALUE
Logic Memory	512 kpts each channel
Logic Threshold TTL	1.4 V
Logic Threshold CMOS	2.5 V
Logic Threshold ECL	minus 1.3 V
Logic Threshold User	minus 8 V to +8 V
Channel Delay Typical	500 ps
DC Gain Accuracy 10 mV to 10 V	plus/minus 3 percent (Normal or Average)
DC Gain Accuracy 2 to 5 mV	plus/minus 4 percent (Normal or Average)
Offset Range High	plus/minus 40 V (250 mV/div to 10 V/div)
Offset Range Low	plus/minus 2 V (2 mV/div to 245 mV/div)
Display	5.6 inch TFT, 320 × 234, 64k color
Probe Compensator	about 3 Vpp at 1 kHz
Power	100 to 240 VACrms, 45 to 440 Hz, 50 VA max
Stored Waveforms	10
Stored Setups	10
Interfaces	USB Device, USB Host, RS-232, P/F Out
Sibling DS1052D Bandwidth	50 MHz, 10 GSa/s equivalent, 5 ns/div
Sibling DS1102E	100 MHz analog only (no 16 ch logic) Notes Specs from Rigol DS1000E/DS1000D series datasheets. DS1102D is the 100 MHz MSO; DS1052D is 50 MHz. Confirm long-memory mode and logic pod fit.
Bandwidth	100 MHz
Rise Time	Typical: less than 3.5 ns

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	DS1102D
Manufacturer	Rigol
Instrument Type	Mixed signal oscilloscope
Alias	DS1102D; RIGOL DS1102D; DS1000D 100 MHz
Analog Bandwidth	100 MHz
Single Shot Bandwidth	100 MHz
Analog Channels	2 plus external trigger
Digital Channels	16
Real Time Sample Rate Single	1 GSa/s
Real Time Sample Rate Dual	500 MSa/s
Equivalent Sample Rate	25 GSa/s
Rise Time Typical	less than 3.5 ns
Analog Resolution	8 bit
Vertical Scale	2 mV/div to 10 V/div
Analog Input Impedance	1 MOhm parallel 15 pF
Analog Max Input	300 Vrms CAT I
Bandwidth Limit	20 MHz typical
Lower Frequency AC	less than or equal to 5 Hz at BNC
Timebase Scale	2 ns/div to 50 s/div
Normal Memory 1 GSa/s	16 kpts
Specifications	
PARAMETER	VALUE
Model	DS1102D
Manufacturer	Rigol
Instrument Type	Mixed signal oscilloscope

PARAMETER	VALUE
Alias	DS1102D; RIGOL DS1102D; DS1000D 100 MHz
Analog Bandwidth	100 MHz
Single Shot Bandwidth	100 MHz
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Real Time Sample Rate Single	1 GSa/s
Real Time Sample Rate Dual	500 MSa/s
Equivalent Sample Rate	25 GSa/s
Rise Time Typical	less than 3.5 ns
Analog Resolution	8 bit
Vertical Scale	2 mV/div to 10 V/div
Analog Input Impedance	1 MOhm parallel 15 pF
Analog Max Input	300 Vrms CATIBandwidth Limit: 20 MHz typical
Lower Frequency AC	less than or equal to 5 Hz at BNC
Timebase Scale	2 ns/div to 50 s/div
Normal Memory 1 GSa/s	16 kpts

Long Memory Single at or below 500 MSa/s: 1 Mpts

Specifications

PARAMETER	VALUE
Long Memory Dual	512 kpts
Logic Sample Rate	200 MSa/s each channel
Logic Memory	512 kpts each channel
Logic Threshold TTL	1.4 V
Logic Threshold CMOS	2.5 V
Logic Threshold ECL	minus 1.3 V
Logic Threshold User	minus 8 V to +8 V
Channel Delay Typical	500 ps

DC Gain Accuracy 10 mV to 10 V: plus/minus 3 percent (Normal or Average)

Specifications

PARAMETER	VALUE
DC Gain Accuracy 2 to 5 mV	plus/minus 4 percent (Normal or Average)

PARAMETER	VALUE
Offset Range High	plus/minus 40 V (250 mV/div to 10 V/div)
Offset Range Low	plus/minus 2 V (2 mV/div to 245 mV/div)
Display	5.6 inch TFT, 320 x 234, 64k color
Probe Compensator	about 3 Vpp at 1 kHz
Power	100 to 240 VACrms, 45 to 440 Hz, 50 VA max
Stored Waveforms	10
Stored Setups	10
Interfaces	USB Device, USB Host, RS-232, P/F Out
Sibling DS1052D Bandwidth	50 MHz, 10 GSa/s equivalent, 5 ns/div
Sibling DS1102E	100 MHz analog only (no 16 ch logic)

Notes
Specs from Rigol DS1000E/DS1000D series datasheets. DS1102D is the 100 MHz MSO; DS1052D is 50 MHz. Confirm long-memory mode and logic pod fit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.