Digital Storage Oscilloscope

2 Channels, 100MHz Bandwidth, 8M Memory Depth

DSO2C10



Accessories









Features

- 2 channel, 100MHz bandwidths.
- 1GSa/s real time sample rate.
- 8MHz memory depth.
- 8 bit vertical resolution.
- Vertical scale from 2mV/div to 10V/div.
- Large (7.0-inch) color display, WVGA (800x480).
- Multiple automatic measurements.
- Four math functions, including FFT standard.
- Trigger mode: edge, pulse width, video, slop, timeout, window, pattern, interval, runt.
- Serial decode/trigger options for: UART, LIN, CAN, IIC, SPI.
- Each analog channel with an individual 3 digits digital voltmeter (DVM) and 5 digits frequency counter.
- 32 built-in measurements and a measurement statistics display.
- USB host and device connectivity, standard.
- Supports SCPI remote command control.

Specification

Model	DSO2C10
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Overview

Oscilloscope	2 analog channels
Serial Protocol Analysis	UART, LIN, CAN, IIC, SPI
Integrated Digital Voltmeter (DVM)	Standard
External Trigger	1

OSCILLOSCOPE

Input	
Analog Channel	2
Input Coupling	AC, DC, GND
Input Impedance/Capacitance	1MΩ±1% / 20pF±3pF (DC coupling)
Standard Probe Attenuation	1X, 10X
Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X
Overvoltage Category	CATII 300V
Maximum Input Voltage	300VRMS (10×)



Vertical		
Bandwidth	100MHz	
Rise Time at BNC (typical)	≤ 3.5ns	
Vertical Resolution	8-bit resolution, all channels sampled simultaneously	
Input Sensitivity Range	2mV/div to 10V/div	
Offset Range	2mV/div to 200mV/div, ±1V 500mV/div to 10V/div, ±50V	
Bandwidth Limits	20MHz (selectable)	
Invert Signal	Selectable	
Low Frequency Response (-3db)	≤10Hz at BNC	
DC Gain Accuracy	±3% full scale for Normal or Average acquisition mode, 10V/div to 10mV/div; ±4% full scale for Normal or Average acquisition mode, 5mV/div to 2mV/div	
DC Offset Accuracy	±0.1div ± 2mV ± 1% offset setting	
Skew	2ns	
Note: when using a 1X probe, bandw	idth reduce to 6MHz	
Horizontal		
Time Base Range	2ns/div to 100s/div (in 1-2-5 sequence)	
Sample Rate and Delay Time Accuracy	±50ppm	
Delta Time Measurement Accuracy (Full Bandwidth)	Single-shot, Normal mode: ± (1 sample interval +100ppm × reading + 0.6ns) >16 averages: ± (1 sample interval + 100ppm × reading + 0.4ns) Sample interval = s/div ÷ 200	
Acquisition		
Max. Sample Rate	1GSa/s for half channels 500MSa/s for all channels	
Memory Depth	Max. 8M for half channels Max. 4M for all channels	
Waveform Interpolation	(sin x)/x	
Waveform Update Rate (Typical)	Up to 2,000 waveform per second each channel (Normal acquisition mode, no measurement)	
Acquisition Mode	Normal, Peak Detect, Average, HR (High Resolution)	



Time Mode	,	YT (default mode), XY (volts vs. volts display), Roll (displays the waveform moving across the screen from right to left)	
Autoset		Finds and displays all active channels and external trigger. And automatically configures the best display of the input signals on these channels.	
Single Sequence	Acquisition Mode	Acquisition Stop Time	
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously	
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128	

Trigger

Trigger Modes	Auto, Normal, Force (front panel key that forces a trigger)	
Trigger Source	CH1, CH2, EXT, AC Line	
Trigger Holdoff Range	20ns to 10s	
Trigger Level Range	Internal: ±5 divisions from center screen External: 3.3V (CMOS)	
Trigger Level Accuracy (typical)	Internal: 0.2div × volts/div within ± 4 divisions from center screen	
Trigger Sensitivity	±0.2 div	
Set Level to 50% (typical)	Operates with input signals ≥50Hz	
Trigger Types	Edge, Pulse width, Video, Slope, Over time, Window, Pattern, Interval, Under Amp	
Edge	Trigger on a rising, falling, or either edge of any source	
Pulse Width	Trigger on a pulse of a selected channel with a time duration that is 'less than a value,' 'greater than a value', 'equal to a value' or 'not equal to a value'. Range: 8ns to 10s	
Video	Trigger on scan lines or individual lines; odd/even or all fields from the composite video; or broadcast standards (PAL and NTSC)	
Slope	Trigger on rising or falling slope of the specified time. This trigger mode is applicable to ramp and triangle waveforms. Time setting range: 8ns to 10s	
Overtime	Trigger when the time interval is greater than the pre-set timeout value.	



Window	Trigger when the input signal passes through the high trigger level or the low trigger level.
Pattern	Trigger when a specified pattern on any combination inputs is entered.
Interval	Trigger on rising or falling edge when the time between the edges is within the specified time. You can use this trigger to find missing or mistimed edges, or changes in signal frequency.
Under Amp	Trigger pulses that pass through one trigger level but fail to pass through another trigger level.
UART	Trigger on start frame position, stop frame position, specified data, parity error or communication error.
LIN	Trigger on LIN (Local Interconnect Network) interval filed, sync field, ID field, sync code error, or specified identifier, frame ID and data.
CAN	Trigger on the start of frame bit, remote frame ID, data frame ID, remote or data frame ID, data frame ID and data, error frame, all errors, acknowledge error, and overload frame of the CAN (controller area network) signal.
SPI	Trigger on SPI (Serial Peripheral Interface) data pattern during a specific framing period.
IIC	Trigger at a start/stop bit or specified address and/or data values. Also, trigger on missing acknowledge, restart.
Measurements	
Cursors	Voltage difference between cursors: ΔV Time difference between cursors: ΔT Reciprocal of ΔT in Hertz (1/ ΔT)
Auto Measurements	Voltage: Peak to peak, Average, Maximum, Minimum, Vtop, Vmid, Vbase, Vamp, RMS, R-Overshoot, F-Preshoot, Preiod RMS, Preiod Average, F-Overshoot, R-Preshoot, Time: Frequency, Period, Rise time, Fall Time, + Width, - Width, +Duty, -Duty, BWidth, FRR, FFF, FRF, FRR, LRR, LRF, LFR, LFF
Waveform Math	
Arithmetic	+, -, x , ÷, FFT
FFT	Window types: Hanning, Hamming, Flattop, Rectangular, Bartlett, Blackman



Functions DC RMS, AC RMS, DC Data Source CH1, CH2 Resolution 3 digits FREQUENCY COUNTER Functions Frequency Data Source CH1, CH2 Resolution 5 digits Display Sesolution 5 digits Display Type 7 inch TFT (diagonal liquid crystal) Display Resolution 800 horizontal by 480 vertical pixels Display Contrast Adjustable Connectivity Standard Ports USB 2.0 (host and device) Probe Compensator Output Output Voltage (typical) About 5V into ≥1MΩ load Frequency (typical) 1kHz ± 1% Power Supply Supply Voltage 100-120VACRMS(±10%), 45Hz to 440Hz, CAT II 120-240VACRMS(±10%), 45Hz to 66Hz, CAT II 120-40VACRMS(±10%), 45Hz t	DVM (DIGITAL VOLTMETER)		
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Power Supply Supply Voltage	Output Voltage (typical)	About 5V into ≥1MΩ load	
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EnvironmentalTemperatureOperating: $32^{\circ}F$ to $122^{\circ}F$ ($0^{\circ}C$ to $50^{\circ}C$); Storage: $-40^{\circ}F$ to $159.8^{\circ}F$ ($-40^{\circ}C$ to $+71^{\circ}C$)Cooling MethodConvectionHumidity $+104^{\circ}F$ or below ($+40^{\circ}C$ or below): $\leq 90\%$ relative humidity $106^{\circ}F$ to $122^{\circ}F$ ($+41^{\circ}C$ to $50^{\circ}C$): $\leq 60\%$ relative humidityAltitudeOperating: Below $3,000m$ ($10,000$ feet)MechanicalDimension $318 \times 110 \times 150mm$ (L $\times W \times H$)	Power Consumption	<15W	
Temperature Operating: 32° F to 122° F (0° C to 50° C); Storage: -40° F to 159.8° F (-40° C to $+71^{\circ}$ C) Cooling Method Convection Humidity $+104^{\circ}$ F or below ($+40^{\circ}$ C or below): ≤90% relative humidity $+106^{\circ}$ F to $+122^{\circ}$ F ($+41^{\circ}$ C to $+100^{\circ}$ C): ≤60% relative humidity Altitude Operating: Below 3,000m ($+100^{\circ}$ C) of the second	Fuse	T2A 250VAC 4x8	
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Mechanical Dimension 318 x 110 x 150mm (L x W x H)	Humidity	, , , , , , , , , , , , , , , , , , ,	
Dimension 318 x 110 x 150mm (L x W x H)	Altitude	Operating: Below 3,000m (10,000 feet)	
	Mechanical		
Weight 1.90KG	Dimension	318 x 110 x 150mm (L x W x H)	
	Weight	1.90KG	

