

TEKTRONIX

DPO4104

The Tektronix DPO4104 is a 1 GHz, 4-channel digital phosphor oscilloscope from the DPO4000 Series. Designed to handle demanding embedded system analysis, it features a 5 GS/s sample rate, a standard 10 Mpoint record length on all channels, and Wave Inspector™ controls to easily navigate deep acquisitions. With a large 10.4-inch XGA display, robust TekVPI probe interface, and built-in serial protocol decoding, it delivers extensive capabilities in a remarkably compact, 5.4-inch deep footprint.

SPECIFICATIONS

General

Display	10.4 in. (264 mm) XGA Color TFT LCD (1024 x 768)
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Physical

Operating Temperature	0 to +50 °C
Dimensions (W×H×D)	439 × 229 × 137 mm
Weight	5 kg

Vertical System Analog Channels

Number of Analog Channels	4
Analog Bandwidth	1 GHz
Calculated Rise Time	350 ps
Hardware Bandwidth Limits	20 MHz, 250 MHz
Input Coupling	AC, DC, GND
Input Impedance	1 MΩ ±1% or 50 Ω ±1%
Vertical Resolution	8 bits
Input Sensitivity Range	1 mV/div to 10 V/div (1 MΩ); 1 mV/div to 1 V/div (50 Ω)

Horizontal System Analog Channels

Maximum Sample Rate	5 GS/s
Maximum Record Length	10 Mpoints (all channels)
Time Base Accuracy	±5 ppm

Acquisition System

Maximum Waveform Capture Rate	50,000 wfms/s
Waveform Interpolation	Sin(x)/x

Trigger System

Main Trigger Modes	Auto, Normal, Single
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Waveform Measurements and Math

FFT	Standard
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Display System

Display Type	Color TFT LCD
Display Resolution	1024 x 768 pixels (XGA)

Input Output Ports

Probe Interface	TekVPI
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Vertical System

Channel-to-Channel Isolation	$\geq 100:1$ at ≤ 100 MHz; $\geq 30:1$ at > 100 MHz up to rated bandwidth (any two channels at equal vertical scale)
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Horizontal System

Time Base Range	400 ps/div to 1000 s/div
Delay Time Range	-10 divisions to 50 s

Triggering

Trigger Coupling Options	DC, AC, HF Reject (attenuates > 50 kHz), LF Reject (attenuates < 50 kHz), Noise Reject
Trigger Holdoff Range	20 ns to 8 s
Trigger Level Range (Internal)	± 8 divisions from center of screen

Measurements

Automated Measurements	29 standard automated measurements
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Power

Power Consumption	250 W maximum
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Environmental

Operating Humidity	5% to 95% relative humidity at ≤ 30 °C; 5% to 45% relative humidity > 30 °C to 50 °C (non-condensing)
Operating Altitude	Up to 3,000 meters (9,843 feet)
Non-Operating Altitude	Up to 12,000 meters (39,370 feet)

Compliance

Safety Standards Compliance	UL61010-1, CSA61010-1, EN61010-1, IEC61010-1
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Display

Display Size	10.4 in (264 mm) diagonal
Display Graticule	10 horizontal $\times$ 8 vertical divisions

Inputs & Outputs

Front Panel Storage Options	USB 2.0 host port, CompactFlash (Type 1) slot
Video Output Port	15-pin D-sub (VGA), XGA resolution (1024 x 768)

General Features

Navigation & Search Controls	Dedicated Wave Inspector® controls (Pan, Zoom, Play, Pause, Search, Mark)
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Measurements & Analysis

Cursor Types	Waveform, V Bars, H Bars, V&H Bars
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TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

APPLICATIONS

Embedded System Design, Serial Protocol Analysis, Electronics Troubleshooting

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