TEKTRONIX

DPO73304DX

The Tektronix DPO73304DX is a high-performance 33 GHz Digital Phosphor Oscilloscope designed for real-time spectral analysis, high-speed serial data compliance, and advanced research applications. It delivers a real-time sample rate of 100 GS/s on 2 channels (or 50 GS/s on 4 channels) combined with exceptional signal fidelity, low noise, and advanced trigger capabilities.

SPECIFICATIONS

General

Interfaces	USB 2.0, LAN (10/100/1000 Base-T, LXI Class C), GPIB, DVI-I, DisplayPort
Display	12.1-inch color TFT-LCD, XGA (1024 × 768) touchscreen

Physical

Power Supply	100 to 240 V AC ±10% (50/60 Hz), 115 V AC ±10% (400 Hz), <980 VA maximum
Operating Temperature	5 °C to +45 °C °C
Dimensions (W×H×D)	457 mm × 298 mm × 513 mm mm
Weight	24 kg kg
Cooling Clearance	76 mm (3 in.) on bottom, left side, right side, and rear

Vertical System

Analog Bandwidth (2 Channels)	33 GHz
Analog Bandwidth (4 Channels)	23 GHz
Analog Input Channels	4
Calculated Rise Time (10% to 90%, 2 Channels)	13 ps
Calculated Rise Time (10% to 90%, 4 Channels)	18 ps
Calculated Rise Time (20% to 80%, 2 Channels)	9 ps
Calculated Rise Time (20% to 80%, 4 Channels)	13 ps
Input Impedance	50 Ω
Input Coupling	DC
Vertical Resolution	8 bit (up to 11 bit with Hi-Res)
DC Gain Accuracy	±2% of full scale
Channel-to-Channel Isolation	≥120:1 at ≤10 GHz
Input Connector Type	2.92 mm (K) female
Vertical Sensitivity Range	6.25 mV/div to 600 mV/div
Vertical Position Range	±5 divisions
Vertical Resolution (Hi-Res Mode)	Up to 11 bits

Horizontal System

Timebase Range	2 ps/div to 1000 s/div
Timebase Accuracy	±1.5 ppm
Timebase Delay Time Range	-5.0 ks to 1.0 ks
Channel-to-Channel Deskew Range	±75 ns
Maximum Record Length (Option 100XL, 2 Channels)	2 Gpoints
Maximum Record Length (Option 100XL, 4 Channels)	1 Gpoints
External Reference Clock Input Frequency	10 MHz / 100 MHz (selectable)
Internal Reference Clock Frequency	10 MHz

Acquisition System

Maximum Real-Time Sample Rate (2 Channels)	100 GS/s
Maximum Real-Time Sample Rate (4 Channels)	50 GS/s
Standard Record Length (2 Channels)	62.5 MS
Standard Record Length (4 Channels)	31.25 MS
Maximum Record Length (Option 20XL, 2 Channels)	500 MS
Maximum Record Length (Option 20XL, 4 Channels)	250 MS
Maximum Waveform Capture Rate	>300,000 wfm/s
Acquisition Modes	Sample, Peak Detect, Averaging, Envelope, Hi-Res, FastAcq, FastFrame
Maximum Record Length (Option 5XL)	62.5 MS
Maximum Record Length (Option 10XL)	250 MS (4 channels)

Trigger System

Trigger Sources	Ch 1, Ch 2, Ch 3, Ch 4, Aux In
Trigger Modes	Auto, Normal, Single
Trigger Coupling	DC, AC, Low Frequency Reject, High Frequency Reject, Noise Reject
Trigger Holdoff Range	250 ns to 12 s
Standard Trigger Types	Edge, Glitch, Width, Runt, Window, Timeout, Transition, Pattern, State, Setup/Hold, Sequence
External Trigger Input Impedance	50 Ω
Trigger Jitter (Typical)	< 100 fs RMS (with Enhanced Triggering ON)
Auxiliary Trigger Input Connector	BNC (front panel)

Waveform Measurements and Analysis

Automatic Measurements	53 built-in measurements
Waveform Math Operators	Arithmetic, algebraic, filtering, FFT, integration, differentiation, logical, relational, user-defined equations
FFT Window Types	Rectangular, Hamming, Hanning, Kaiser-Bessel, Blackman-Harris, Gaussian, Flattop2, TekExponential

Display and User Interface

Waveform Display Formats	YT, XY, XYZ

Connectivity and Interfaces

Reference Clock Input	BNC connector, 10 MHz
Reference Clock Output	BNC connector, 10 MHz
Auxiliary Output	BNC connector, trigger output or recovery clock output

Environmental and Compliance

Storage Temperature	-22 °C to +60 °C
Operating Humidity	8% to 80% RH at up to +32 °C; 5% to 45% RH above +32 °C up to +45 °C
Operating Altitude	Up to 3,000 m (9,843 ft.)
Storage Altitude	Up to 12,000 m (39,370 ft.)
Safety Certifications	UL 61010-1, CSA 61010-1, EN 61010-1, IEC 61010-1
EMC Certifications	EN 61326-1, EN 61326-2-1, 2004/108/EC

Computer System

Processor	Intel Core i7 Quad-Core
Operating System	Windows 10 IoT Enterprise 64-bit
System Memory	16 GB
Standard Storage	512 GB removable Solid State Drive (SSD)

Interfaces

GPIB Interface	IEEE-488.2
LAN Interface	RJ-45, 10/100/1000 Mbps Gigabit Ethernet
USB Device Ports	1x USB 2.0 (rear panel)
LXI Compliance	LXI Class C

TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

APPLICATIONS

High-speed serial bus design, optical communications, spectral analysis, RF/microwave design, and advanced physics research

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