



Digital Oscilloscope

DPO7000 Series

500MHz, 2GSa/s, 2Gpts Memory Depth



Product Features

- 7-in-1 instrument integration: oscilloscope, 16-channel logic analyzer, spectrum analyzer, frequency counter, DVM, arbitrary waveform generator, protocol analyzer;
- Up to 2GSa/s real-time sampling rate, 2G memory depth, hardware real-time waveform recording and playback up to 2 million frames;
- Multiple serial protocol triggering and decoding;
- Up to 500,000 wfms/s waveform capture rate;
- Up to 41 automatic measurements;
- Multiple data gathering and analysis: search, navigate and lister, histogram, bode plotter, power analyzer, counter.

Specification

Model		DPO7504E	DPO7354E	DPO7204E	DPO7104E
Analog Channels		4			
Bandwidth		500MHz	350MHz	200MHz	100MHz
Sampling Rate		2GSa/s single channel, 2GSa/s half channels, 1GSa/s all channels			
Memory Depth		2Gpts (single channel), 1Gpts (dual channels), 500Mpts (three or four channels)			
Waveform Capture Rate		500,000 wfms/s [for 25ns, dots display, single channel, auto memory depth]			
Vertical Resolution		8 bits			
Input Sensitivity		1 M Ω : 500 μ V/div ~ 10 V/div			
		50 Ω : 500 μ V/div ~ 1 V/div			
Timebase Range		500ps/div~1 ks/div	1ns/div~1 ks/div	2ns/div~1 ks/div	5ns/div~1 ks/div
Timebase Accuracy		± 1 ppm ± 1 ppm/year aging			
Bandwidth Limit		20 MHz, 100MHz, 200MHz, 350MHz, 650MHz, 750MHz (Independent option for each channel)			
Trigger Type		Edge, Pulse, Video, Slope, Overtime, Window, Runt, Superamp, Pattern, Delay, Setup/Hold, RS232, LIN, CAN, SPI, I ² C			
Serial Bus Decode		RS232, I ² C, SPI, LIN, CAN			
Arithmetic		Add, Subtract, Multiply, Divide, FFT, A&&B, A B, A^B, !A, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs, AX+B, Low Pass, High Pass, Band Pass, Band Stop			
Automatic Measurements		41 measurements, measurements update continuously with statistics			
Analyze		Counter, DVM, Power analyzer, Histogram, Search, Navigate, Bode plotter			
Recorder		≥ 2 million frames (single channel)			
Input Coupling		DC, AC or GND			
Input Impedance		1 M $\Omega \pm 1\%$, 50 $\Omega \pm 1\%$; 21 pF ± 3 pF			
Waveform Generator	Sampling Rate	200 MSa/s			
	Amplitude Resolution	12 bits			
	Max. Frequency	25 MHz			
	Waveform	Sine, Square, Pulse, Ramp, Noise, DC, Sinc, EXP, Rise, Fall, Lorentz, Gauss, ECG, Haver Sine, Arb.			
Digital Channels	Input Channels	16			
	Sampling Rate	1GSa/s			
Connectivity		USB host, USB device, LAN, Optional ports: HDMI, RS232			
Display		10.1 inch capacitive multi-touch, 256 intensity levels, color graded persistence			
Dimension (LxWxH)		372mm * 140mm * 230 mm			
Weight		4KG			

Model

Model	Analog Channels	Bandwidth	Max. Real-time Sampling Rate	Max. Memory Depth	Max. Waveform Capture Rate	Digital Channels	Waveform Generator
DPO7102C	2	100MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7202C	2	200MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7352C	2	350MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7502C	2	500MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7104C	4	100MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7204C	4	200MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7354C	4	350MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7504C	4	500MHz	2GSa/s	2Gpts	500,000 wfms/s	--	--
DPO7102E	2	100MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7202E	2	200MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7352E	2	350MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7502E	2	500MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7104E	4	100MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7204E	4	200MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7354E	4	350MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output
DPO7504E	4	500MHz	2GSa/s	2Gpts	500,000 wfms/s	16	25MHz, 1 Output