

Technical Specifications for Oscilloscope 350 MHz

S No	Specifications	Details
1	Bandwidth (-3 dB)	350 MHz
2	Rise time (10 to 90%)	≤ 1 ns
3	Input channels	4
4	Maximum sample rate	2.5 GSa/s all channels
5	Maximum memory depth	Standard 4 Mpts, segmented memory
6	Display size and type	8.5-inch capacitive touch gesture-enabled display
7	Waveform update rate	> 1,000,000 waveforms per second
	Vertical system analog channels	
8	Hardware bandwidth limits	Approximately 20 MHz
9	Input coupling	AC, DC
10	Input impedance	Selectable: 1 MΩ ± 1% (14 pF), 50 Ω ± 1.5%
11	Input sensitivity range	1 mV/div to 5 V/div ²
12	Vertical resolution	8 bits
13	Maximum input voltage	300 Vrms, 400 Vpk; transient overvoltage 1.6 kVpk
14	DC vertical gain accuracy	± 2.0% full scale
15	DC vertical offset accuracy	± 0.1 div ± 2 mV ± 1% of offset setting
16	Channel-to-channel isolation	> 100:1 from DC to maximum specified bandwidth
17	Offset range	± 2 V (1 mV/div to 200 mV/div) ± 50 V (> 200 mV/div to 5 V/div)
18	Time base range	2 ns/div to 50 s/div
19	Time base accuracy	±1.6 ppm
20	Channel-to-channel deskew range	± 100 ns
21	Δ Time accuracy (using cursors)	± (time base acc. x reading) ± (0.0016 x screen width) ± 100 ps
22	Horizontal Modes	Main, zoom, roll, XY
	Acquisition system	
24	Maximum analog channels record length	2 Mpts all channel
	Trigger system	
25	Trigger modes	Normal Auto Single
26	Trigger coupling	DC, AC, HF Reject, LF Reject, Noise Reject

27	Trigger holdoff range	40 ns to 10.00 s
	Trigger sensitivity	
28	Internal	< 10 mV/div: Greater of 1 div or 5 mV; ≥ 10 mV/div: 0.6 div
	Waveform measurements	
29	Automatic measurements	Voltage: Peak-to-peak, maximum, minimum, amplitude, top, base, overshoot, pre-shoot, average- N cycles, average- full screen, DC RMS- N cycles, DC RMS- full screen, AC RMS- N cycles, AC RMS- full screen (std deviation), ratio- N cycle, ratio- full screen
		Time: Period, frequency, counter, + width, - width, burst width, +duty cycle, -duty cycle, bit rate, rise time, fall time, delay, phase, X at min Y, X at max Y
	Waveform math	
30	Number of math functions	displays FFT and one math simultaneously
31	Arithmetic	Add, subtract, multiply, divide, differentiate, integrate, FFT, Ax + B, squared, square root, absolute value, common logarithm, natural logarithm, exponential, base 10 exponential, low pass filter, high pass filter, averaged value, smoothing, envelope, magnify, max hold, min hold, measurement trend, chart logic bus (Timing or State)
32	Enhanced FFT	
33	Record size	Up to 64 kpts resolution
34	Window types	Hanning, Flat Top, Rectangular, Blackman-Harris
	Display characteristics	
35	Display	8.5-inch capacitive touch/gesture enabled TFT LCD
36	Resolution	800 (H) x 480 (V) pixel format (screen area)
	Built-in function/arbitrary waveform generator	
37	WaveGen out	Front-panel BNC connector
38	Waveforms	Sine, Square, Ramp, Pulse, DC, Noise, Sine Cardinal (Sinc), Exponential Rise, Exponential Fall, Cardiac, Gaussian Pulse, and Arbitrary
39	Sine	Frequency range: 0.1 Hz to 20 MHz
		Harmonic distortion: -40 dBc
		Total harmonic distortion: 1%
40	Square wave /pulse	Frequency range: 0.1 Hz to 10 MHz
		Duty cycle: 20 to 80%

		Pulse width: 20 ns minimum
		Overshoot: < 2%
41	Ramp/triangle wave	Frequency range: 0.1 Hz to 200 kHz
		Linearity: 1%
		Variable symmetry: 0 to 100%
42	Noise	Bandwidth: 20 MHz typical
43	Arbitrary	Waveform length: 1 to 8k points
		Amplitude resolution: 10 bits (including sign bit)
		Repetition rate: 0.1 Hz to 12 MHz
		Sample rate: 100 MSa/s
	Digital voltmeter	
44	Functions	ACrms, DC, DCrms
45	Resolution	ACV/DCV: 3 digits
46	Measuring rate	100 times/second
47	Autoranging	Automatic adjustment of vertical amplification to maximize the dynamic range of measurements
	Precision counter/totalizer	
48	Counter - Source	Any analog channel or trigger qualified event
	Resolution	8 digits
	Max frequency	1 GHz
49	Measurement	Frequency, period, totalize
	Connectivity	
50	Standard ports	One USB 2.0 hi-speed device port
51	Trigger out	BNC connector on the rear panel
52	Warranty	3-year warranty
53	Probes	One per channel, 500 MHz, passive, 10:1