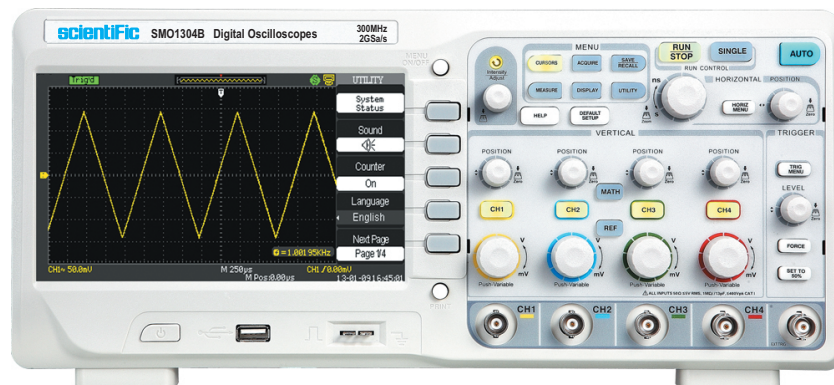


Digital Oscilloscopes

SMO1000B



Advance Features

- 2/4 channels , Signal bandwidth: 70/ 100/200/300 MHz
Real-time sampling rate: Max. 2 GSa/s
Equivalent sampling rate: Max. 50 GS/s
- 7.0" TFT LCD Color display
- 24Kpts memory depth
- Independent vertical scale & position control knobs for each channel
- Edge, Pulse Width, Video, Slope, Alternate trigger mode
- Math functions including add, Subtract, Multiply, Divide & 1024 point FFT
- Channel waveforms & its FFT display on split screen.
- 32 parameters of automatic measurements
- Unique Digital Filter & Waveform recorder function
- Advanced cursor modes: Manual, Auto & Track
- Waveform Intensity & Grid Brightness can be adjusted
- PASS / FAIL detection, PASS/FAIL output
- Built-in full band width hardware frequency counter
- Save/recall types: 20 Setups, 20 Waveforms, CSV file, Picture
- Standard Interface
USB Host: Support USB flash driver save/recall function & update firmware,

Technical Specifications	SMO1072B	SMO1074B	SMO1102B	SMO1104B	SMO1202B	SMO1204B	SMO1302B	SMO1304B
Vertical System								
BW	70MHz		100MHz		200MHz		300MHz	
Calculated Rise Time	<5.0ns		<3.5ns		<1.8ns		<1.2ns	
Channels	2	4	2	4	2	4	2	4
Coupling	DC, AC and GND							
Bandwidth Limit (-3dB)	20 MHz							
Vertical Resolution	8 Bits							
Vertical Scale	2 mV/div to 5 V/div 1-2-5 steps							
Vertical Gain Accuracy	2 mV/div Variable Gain Ranges : $\pm 4\%$; 5 mV/div to 5 V/div in Fixed Gain Ranges: $\pm 3\%$							
Vertical Offset Range	2 mV -100 mV: $\pm 800mV$ 102 mV-5 V: $\pm 40 V$							
Overshoot	<10% with probe or BNC input into 50 Ω							
Probe Attenuation Factors	x 1, x 5, x 10, x 50, x 100, x 500, x 1000							
Input Impedance	1 M Ω \pm 2% 18 pF \pm 3 pF, 50 Ω \pm 2%							
Max. Input Voltage	400 V (DC + AC pk pk 1 M Ω input impedance, X10), CAT							
Sampling System								
Real Time Sampling	2 GSa/s							
Equivalent Sampling	50 GSa/s							

Technical Specifications	SMO1072B	SMO1074B	SMO1102B	SMO1104B	SMO1202B	SMO1204B	SMO1302B	SMO1304B
Memory Depth	24 k points							
Sampling Mode	Sample, Peak detect, Averaging, Roll Mode							
Auto Scale	Automatically set vertical scale (V/div), time base (s/div), and trigger mode I							
Horizontal System								
Time Base Range	1 ns – 50 s/div							
Scan	100 ms– 50 s/div (1-2.5-5 sequence)							
Horizontal Mode	Main, Window, Window Zoom, Roll, X-Y							
Time Base Accuracy	±100 ppm measured over 1ms interval							
XY Mode								
Input	X: Channel 1/2, Y: Channel 3/4							
Bandwidth	70MHz	100MHz	200MHz	300MHz				
Trigger System								
Trigger Source	CH 1, CH 2, CH 3, CH 4, EXT, EXT/5, AC Line							
Trigger Mode	Auto, Normal, Single							
Trigger Coupling	DC, AC, LF-reject, HF-reject							
Trigger Type	Edge, Pulse Width, Video, Slope, Alternative							
Trigger Level Range	Internal : ± 6 div from screen center; EXT : ± 1.2 V; EXT/5 : ± 6 V							
Trigger Sensitivity	DC–10 MHz: 1 Div, 10 MHz – Max. BW: 1.5 Div; EXT: DC–10 MHz: 200 mVpp, 10 MHz – Max. BW: 300 mVpp EXT/5: DC–10 MHz: 1 Vpp, 10 MHz – Max. BW: 1.5 Vpp							
Pulse Width Trigger	Trigger Modes (>, <=) positive pulse width (>, <=) Negative Pulse Width Pulse Width Range : 20ns–10s							
Video Trigger	Support signal formats : PAL/SECAM, NTSC Trigger Condition : odd field, even field, all lines, line Num (>, <=) Positive slope (>, <=) Negative slope							
Slope Trigger								
Alternative Trigger	CH1/CH2/CH3/CH4 trigger type : Edge, Pulse, Video, Slope							
Signal Measurement								
Parameters	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROVShoot, FOVShoot, RPRESshoot, FPREShoot, Rise time, Fall time, Freq, Period, +Wid, -Wid, +Dut, -Dut, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF							
Math Functions	Add, subtract, multiply, divide & 1024 point FFT							
FFT Window	Hanning, Hamming, Blackman, Rectangular							
Cursor Measurement	Manual, Auto, Track							
Hardware Frequency Counter	DC Coupled, 10 Hz to Max. BW, resolution: 1 Hz; Accuracy: ±0.01%							
Storage & Interface								
Storage	Internal: 2/4 reference waveform, 20 setup files & 20 captured waveform files USB: Setups, Waveforms, CSV file, BMP							
Interface	USB HOST, USB DEVICE, RS232C & PASS/FAIL OUT							
Display System								
Display Screen	TFT LCD display, 7.0"							
Resolution	480 (horizontal) x 234 (vertical) pixels							
Color	64K color							
Waveform Display								
Scale	8 x 18 div							
Type	Dots , Vector							
Interpolation	(Sinx)/x, Linear							
Persistence	Off, 1 sec, 2 sec, 5 sec, Infinite							
General Information								
Operating Condition	10°C to 40°C, ≤ 85% RH							
Power	100–240 V AC, CAT II, 45 Hz to 440 Hz							
Power Consumption	≤ 50 VA							
Dimension	W : 358, D : 156, H: 118 (mm)							
Weight	4.5 kg (approx.)							
Accessories	1:1/1:10 Probes (2/4 No.s), Power cord, USB cable, Software CD							

(Subject to change)

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