

Model	DS1054Z	DS1074Z Plus DS1074Z-S Plus	DS1104Z Plus DS1104Z-S Plus
Bandwidth	50MHz	70MHz	100MHz
Channels	4		
Maximum Sample Rate	1GSa/s (1Ch), 500MSa/s (2Ch), 250MSa/s (3 or 4Ch)		
Maximum Memory Depth	12Mpts (24Mpts Optional)		
Maximum Waveform Capture Rate	30,000wfms/s		
Time-Base Accuracy	≤±25ppm		
Time-Base Drift	≤±5ppm/year		
Time-Base Scale	5ns/div to 50s/div		
Input Impedance	1MΩ ± 2% // 13pF ± 3pF		
Vertical Scale	1mV/div to 10V/div		
DC Gain Accuracy	±2% Full Scale (Channel 1), ±3% Full Scale (Channels 2, 3 & 4)		
Bandwidth Limit	20MHz		
Real Time Waveform Record & Replay Function (Optional)	Up to 60,000 Frames		
Standard Trigger Functions	Edge, Pulse Width, Slope, Video, Pattern, Duration		
Optional Trigger Functions	RS232, I2C, SPI, Runt, Windows, Nth Edge, Delay, Time Out, Setup/Hold		
Standard Bus Decoding	Parallel Bus		
Optional Bus Decoding	RS232, I2C, SPI		
Math Functions	A+B, A-B, AxB, A/B, FFT, AND, OR, NOT, XOR, Intg, Diff, Sqrt, Lg, Ln, Exp, Abs		
Auto Measurements	Vpp, Vamp, Vmax, Vmin, Vtop, Vbase, Single Period Vavg, Vrms, Single Period Vrms,  Overshoot, Preshoot, Area, Period Area, Freq, Period, Rise Time, Fall Time, Width, -Width, Duty, -Duty,  Delay A→B Rising Edge, Delay A→B Falling Edge, Phase A→B Rising Edge, Phase A→B Falling Edge		
Connectivity	USB Host & Device, LAN(LXI), Aux Output (TrigOut, PassFail)  Support USB-GPIB (Optional)		
Display	7" WVGA (800x480) TFT LCD, 64 Intensity Grading Level		
Size (WxHxD)	313.1mm x 160.8mm x 122.4mm		
Weight	3.2kg ± 0.2kg (without package)		
Standard Probes	RP2200 150MHz BW Passive Probe: 4 sets		
Built-In 2 Channel Waveform Generator	Not Available	<b>'-S' Models Only</b>  2 Channels  200MSa/s Sample Rate  14bits Vertical Resolution  25MHz Maximum Output Frequency  20mVpp - 5Vpp Amplitude Range (High Z)	

		<p>16kpts Waveform Length</p> <p>Standard Waveforms - Sine, Square, Ramp, Pulse, Noise, DC</p> <p>Arbitrary Waveforms - Sinc, ExpRise, ExpFall, ECG, Gauss, Lorentz, Haversine, User Defined</p> <p>Modulation - AM &amp; FM</p>
MSO Ready	Not Available	<p>Yes</p> <p>Add 16 digital channels to your Rigol DS1000Z Plus oscilloscope simply by purchasing the Rigol MSO1000Z Upgrade Kit.</p> <p>Please note - The number of available analogue channels is reduced by 1 for every block of 8 digital channels in use.</p> <p>For example - If 9 to 16 digital channels are in use, the number of available analogue channels is 2.</p>