

# Specifications

The following specifications apply to all models in the Rigol DS1000Z series, unless otherwise indicated.

<b>Memory</b>	12 MB/ 12Mpts (divided by number of channels).
<b>Sample rate</b>	250 MS/s (4 channels active), 500 MS/s (2 channels active) 1 GS/s (1 channel active)
<b>Display</b>	7" TFT, 800x480 pixels 160,000 colors
<b>Input impedance</b>	1 M $\Omega$
<b>Number of channels</b>	4
<b>Horizontal scale (input)</b>	5 ns/div - 50s/div
<b>Vertical Sensitivity (input)</b>	1 mV/div - 10 V/div
<b>A/D converter</b>	8 bits resolution
<b>Maximum voltage</b>	CAT I 300 Vrms, CAT II 100 Vrms, transient overvoltage 100Vpk
<b>Rise Time</b>	DS1104Z: 3.5 ns DS1074Z: 5 ns
<b>Probe support</b>	0.1x - 1000x
<b>Number of channels</b>	4
<b>Measured noise value</b>	1 mV <sub>pp</sub> (at 100ms, 1mV/div, record length: 3Mpts)
<b>Connections</b>	USB 2.0 type A, USB 2.0 type B, LAN
<b>Weight (without box)</b>	3.2 Kg
<b>Dimensions</b>	313 x 161 x 122 mm

## Function generator specifications (S models only)

<b>Sample Rate</b>	200 MS/s
<b>Vertical Resolution</b>	14 bits
<b>Number of channels</b>	2
<b>Maximum frequency</b>	25 MHz

