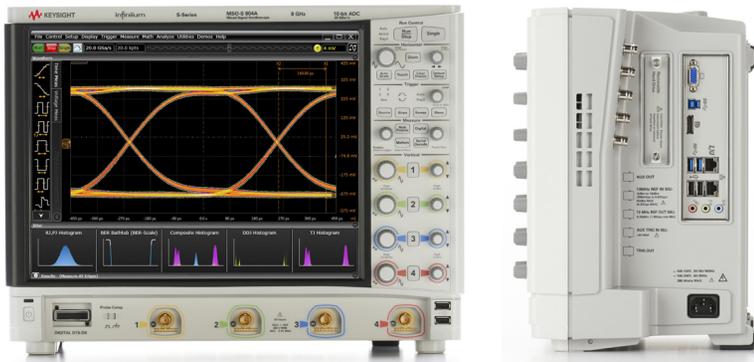# Keysight Competitive Comparison
Keysight S–Series versus Rohde & Schwarz RTO1000

Keysight S-Series

The Keysight Technologies, Inc. S-Series oscilloscope provides bandwidths up to 8 GHz with class-leading signal integrity and analysis. Custom ASICs, including the industry's first 40 GSa/s, 10-bit ADC, allow you to see your real signal. Class-leading deep memory and a large suite of analysis tools complement a designed-for-touch user interface and the industry's first 15" multi-touch capacitive touch-screen display.

Rohde & Schwarz RTO1000 Series

A 15" multi-touch capacitive touch-screen display offers 2x more viewing area and much greater sensitivity to user inputs.

	Keysight S-Series		R&S RTO1000	
Bandwidth	Up to 8 GHz	√	Up to 4 GHz	X
Max sampling rate	20 GSa/s on all models	√	10 GSa/s on up to 2 GHz	X
Standard memory depth (4 ch)		√	20 GSa/s on 4 GHz	√
	50 Mpts	√	20 Mpts	X
Max memory depth (2 ch)	800 Mpts	√	200 Mpts	X
ADC bits	10 bits	√	8 bits	X
ENOB at 1 GHz	8.0 bits	√	7.1 bits	X
RMS noise at 1 mV/div	153 uV at 4 GHz	√	240 uV at 4 GHz	X
Waveform update rate (vectors on)	Up to 2,000 wfms/s	X	Up to 600,000 wfms/s	√
Internal drive	SSD	√	HDD	X
Display	15" capacitive multi-touch	√	10.4" resistive touch	X
Math functions	16	√	4	X
Compliance, protocol, analysis applications	Extensive	√	Limited	X
Supported probes	Extensive	√	Limited	X
Time scale accuracy	± 75 ppb	√	± 5,000 ppb	X
BenchVue support	Yes	√	Not available	X

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