4-GHz Oscilloscope is Presented as Offering the Highest Precision, Acquisition Rate in its Class

The new 4 GHz high-performance oscilloscope from Rohde & Schwarz with its 20 Gsample/s sampling rate addresses a wide variety of applications: The R&S RTO1044 is appropriate for analyzing fast signals and steep edges. It can handle different data interfaces up to a data rate of 1.6 Gbps and can also be used to test fast clock signals up to a frequency of 800 MHz. Features include high sensitivity and accuracy for measurements of typically low-amplitude (< 1 V) signals. Owing to the extremely low-noise frontend, the full measurement bandwidth of 4 GHz is available at even the smallest scaling (1 mV/div). The 10-GHz single-core A/D converter provides an outstanding dynamic range (ENOB > 7 bit). Another characteristic is the high acquisition and analysis rate of 1 million waveforms per second. The digital trigger system makes it possible to accurately pinpoint narrow glitches (down to 50 ps) and their origin. And an adjustable trigger hysteresis allows users to optimize the trigger sensitivity to the signal characteristics.

The combination of fast FFT analysis, high dynamic range and a bandwidth of up to 4 GHz makes the R&S RTO1044 ideal for frequency domain measurements: When verifying circuit designs and during debugging, even sporadic EMI interferers are reliably detected. The spectra of up to four RF signals can be observed in parallel and phase-coherent.

Rohde & Schwarz oscilloscopes feature touchscreen operation that redefines ease of use. The cleverly designed screen with its semitransparent dialog boxes, drag-and-drop measurement windows, configurable toolbar and preview icons with live waveforms allows users to accomplish even complex measurement tasks quickly and efficiently. The 10.4 inch touchscreen strikes the right balance between usability and compactness.

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[1] http://www.rohde-schwarz.us