

Applications

- Transceivers
- Mixed-Mode ICs
- PLLs
- VCOs

Overview

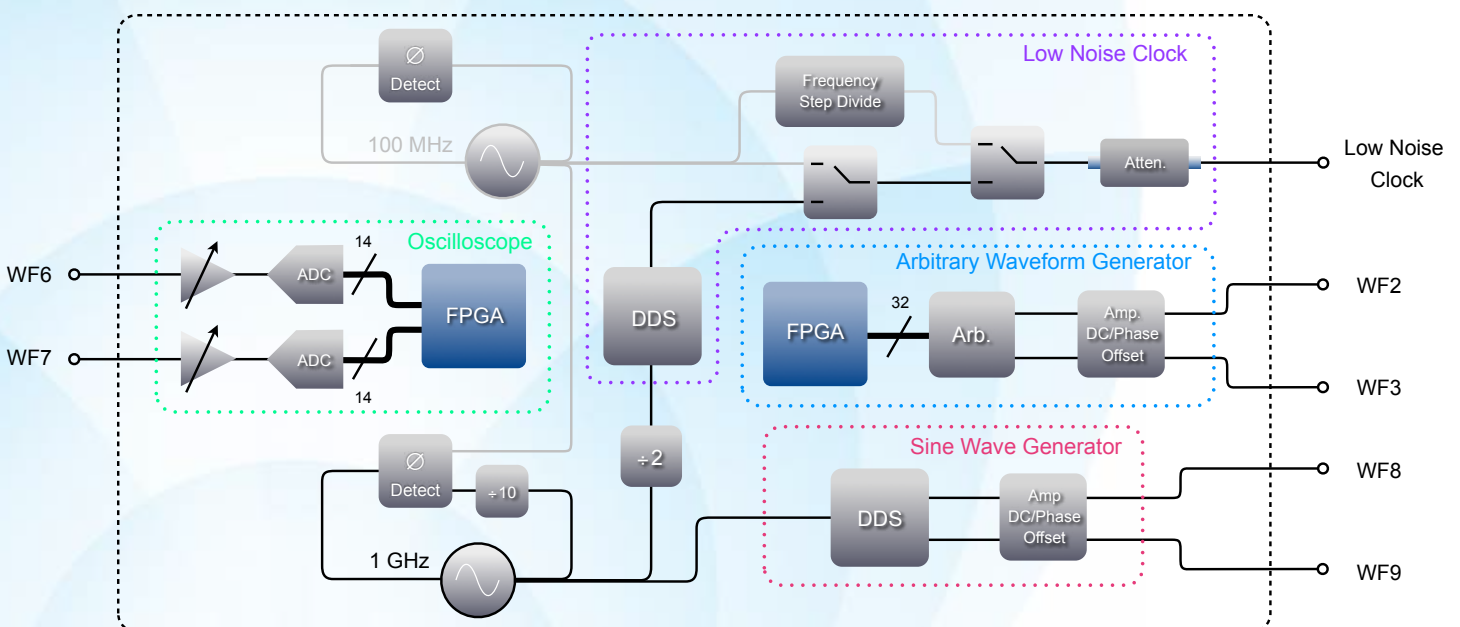
The RI8594 delivers enhanced waveform and oscilloscope performance over the RI8572 Waveform/Measure instrument and includes an additional, low-noise clock source. The state-of-the-art PLL supplies an optimal local oscillator reference signal for devices requiring high-fidelity phase noise qualification. The instrument also provides complex sine and arbitrary baseband waveform generation for modulated signal applications as well as a dual-channel digitizer with an embedded FPGA for real-time oscilloscope measurements.



Key Features

- *M-ary QAM, M-PSK, & Custom Baseband Generation*
- *Continuous & Reciprocal Frequency Counter*
- *Measure S/N, SINAD, Rise/Fall Times*
- *Ultra Low-Noise Reference LO*

Block Diagram



Performance

Low-Noise Clock

Frequency Options	100MHz ÷ 2,4,8,16 100MHz 200Hz - 400MHz
Phase Noise ¹	170dBc/Hz 148dBc/Hz 120dBc/Hz

Sine & Arbitrary Wave Generator

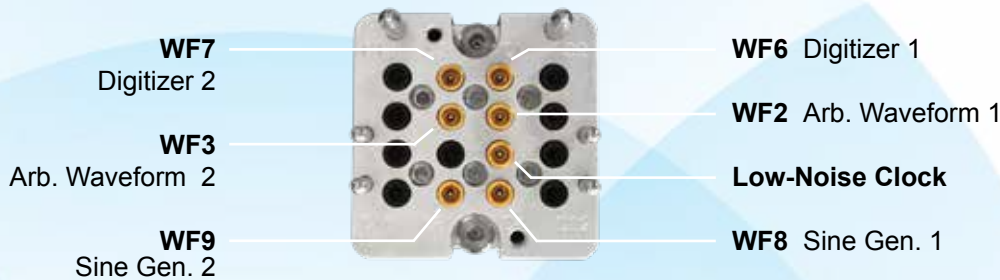
Frequency Range	1kHz to 90MHz (Sine) 1Hz to 100MHz (Arb.)
Clock Rate	640MHz (Max)
Bit Resolution	16 Bits/Channel

Digitizer

Analog Bandwidth	100MHz
Sample Rate	80Msps
Voltage/Bit Resolution	±0.4V / 14Bits

¹ Typical performance at 20kHz offset

Inputs/Outputs



Cassini Test Systems

A versatile, high-speed, automated test solution for analog, mixed-signal, RF, and millimeter-wave devices.

Cassini provides a modular base architecture that is fully configurable via Test Instrument Modules (TIMs) to meet the needs of any IC, wafer, or module test requirement.

Each TIM contains internally-cooled, RF-shielded measurement instrumentation, signal distribution, and blind mate interfacing to provide targeted test resources and integrate to build up a complete production test platform.

Combined with Roos Instruments' integrated test software, Cassini can be configured to any application for maximum performance, true low cost of test, and the industry's fastest test times.

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