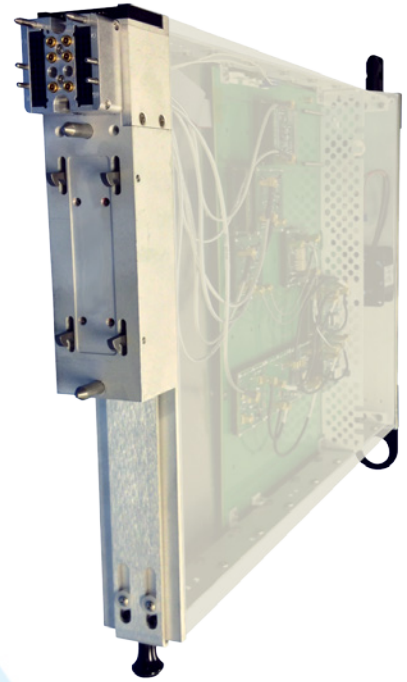


Applications

- Transceivers
- Mixed-Mode ICs
- PLLs
- VCOs

Overview

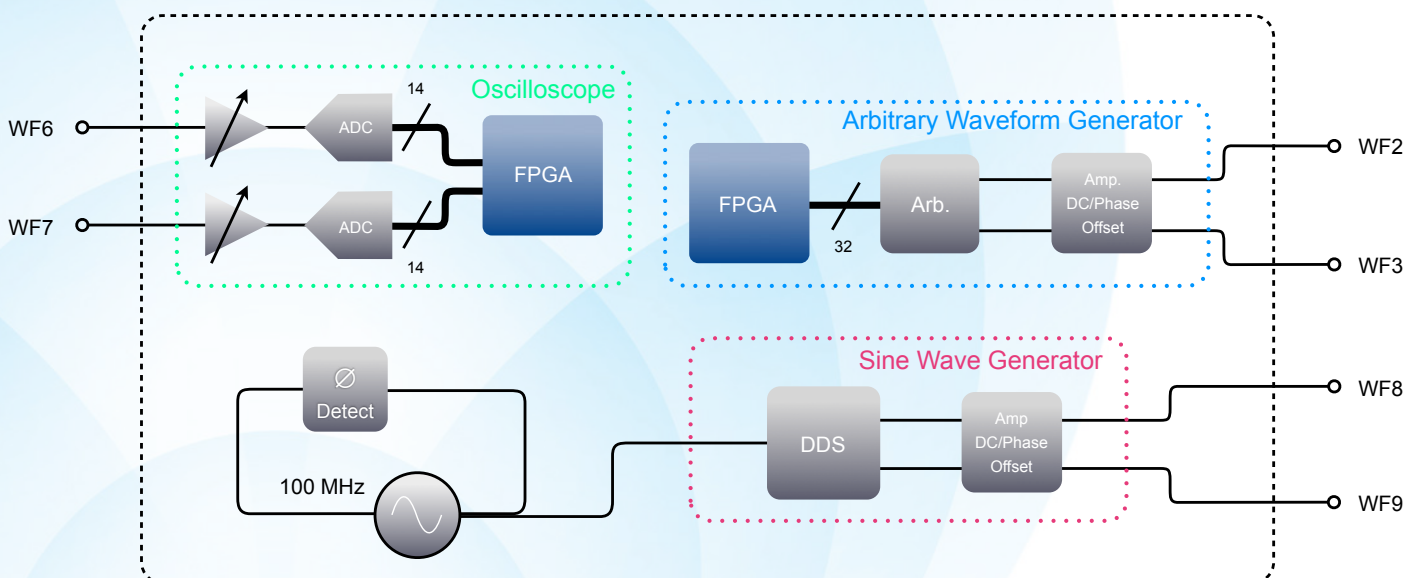
The RI8572 combines two dedicated waveform generators and a dual-channel digitizer in a single instrument for general purpose time domain measurements. A built-in PLL and direct digital synthesizer generates two channels of orthogonal CW signals with phase, amplitude and DC offset controls for single tone applications. An arbitrary waveform generator with an embedded FPGA supplies two outputs with user-programmable complex modulated signals for baseband applications. A dual-channel digitizer provides oscilloscope functionality with two high-speed ADCs and a dedicated FPGA for real-time signal analysis.



Key Features

- *M-ary QAM, M-PSK, & Custom Baseband Signals*
- *Continuous & Reciprocal Frequency Counter*
- *Measure S/N, SINAD, Rise/Fall Times*

Block Diagram



Performance

Sine Wave Generator

Frequency Range	1 kHz to 90MHz
Voltage Range	0.1V _{p-p} to 3V _{p-p}

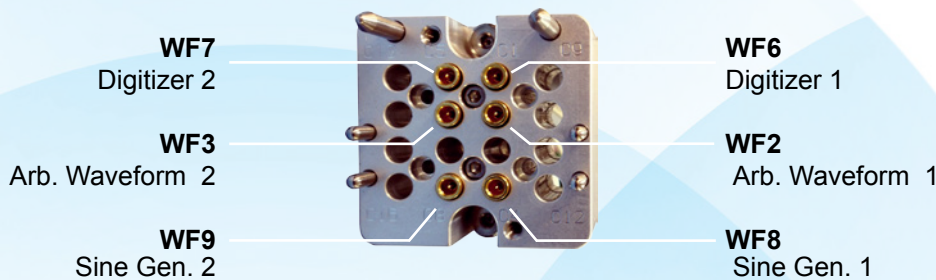
Arbitrary Wave Generator

Frequency Range	1 Hz to 100MHz
Clock Rate	640MHz (Max)

Digitizer

Measurement Bandwidth	100MHz
Signal/Bit Resolution	±0.4V / 14 Bits
Sample Rate	80MSPS

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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