

Applications

- Radio Systems
- Multi-Band Modules
- MMICs
- RFICs

Overview

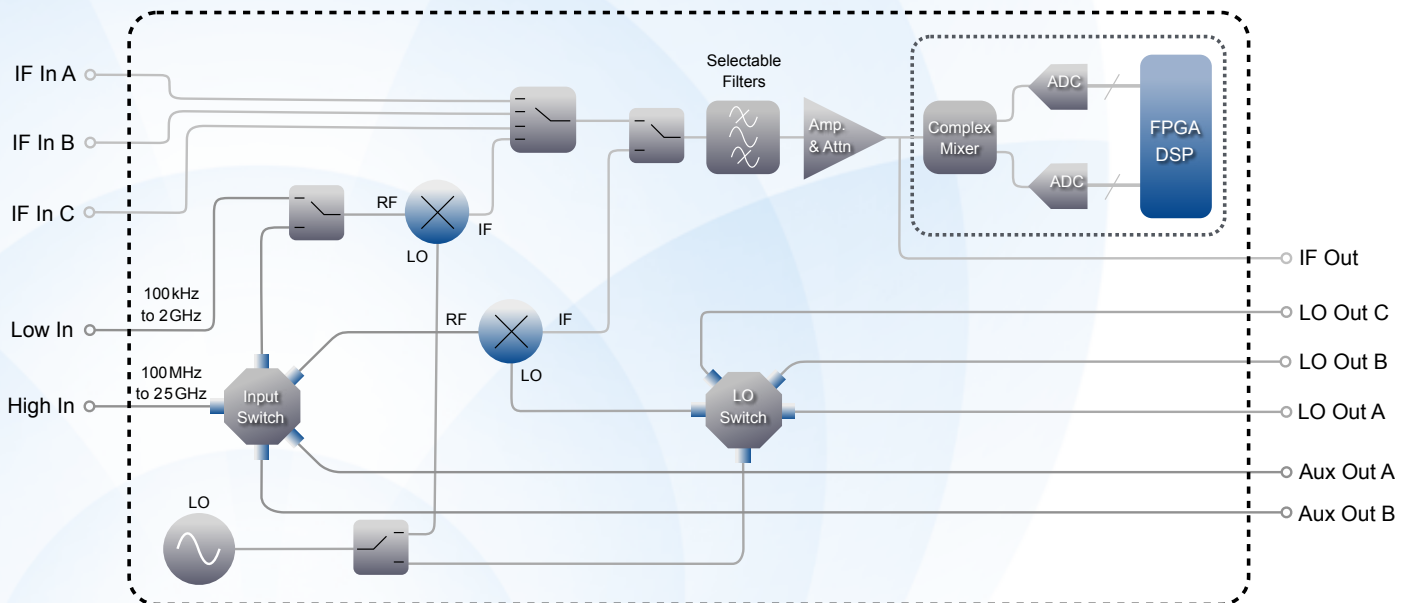
The RI8596 Receiver provides a versatile RF front-end, integrated LO, frequency down conversion, and baseband DSP for applications in the 100 kHz to 25 GHz range. Incorporating our innovative SyRF Core technology, the RI8596 features multiple RF ports that interface with Cassini's Test Set instruments to extend the measurement range up to 90 GHz with precision vector calibration and error correction. High-linearity mixers and a selectable analog filter bank enable up to 5 MHz of instantaneous bandwidth and signal detection down to -100 dBm. Behind dual high-speed ADCs is an embedded FPGA with real-time DSP for vector/spectral analysis, digital filtering, demodulation, and user-defined signal processing.



Key Features

- *Measure Absolute Power, Phase, Noise Figure, S-Parameters*
- *>100 dB of Dynamic Range from 25 MHz to 25 GHz*
- *Real-time DSP for PAR, ACPR, FFT, & EVM*
- *2 RF Inputs, 3 Baseband Inputs, 3 LO Outputs*

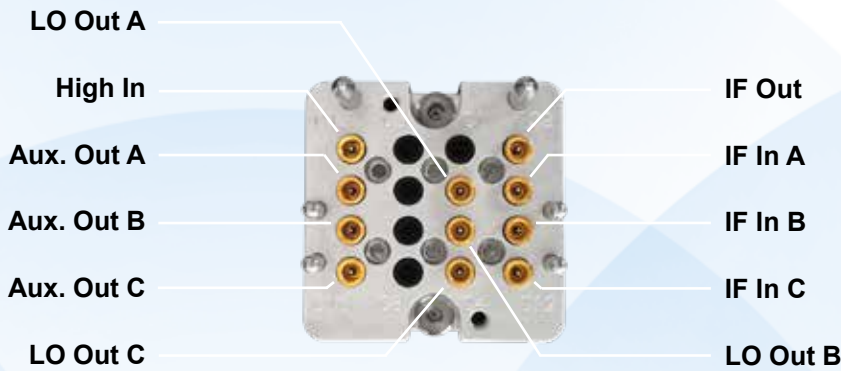
Block Diagram



Performance

RF	
Frequency Range	100kHz to 25GHz
Power Range	-100dBm to +10dBm
Frequency Lock	~100µs
Baseband	
Analog Bandwidth	7 kHz, 200kHz, 5MHz (selectable)
Noise Floor	-155 dBm/Hz @ 1GHz (typical)
Sample Rate	80Mmps

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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