Roos Instruments

RI8563 - 4 to 40.5 GHz Test Set

Cassini Instrument Profile

Applications

- Automotive Radar
- Cellular Backhaul
- Tuners & PAs
- Wireless HD
- Radar Comm.
- TIAs

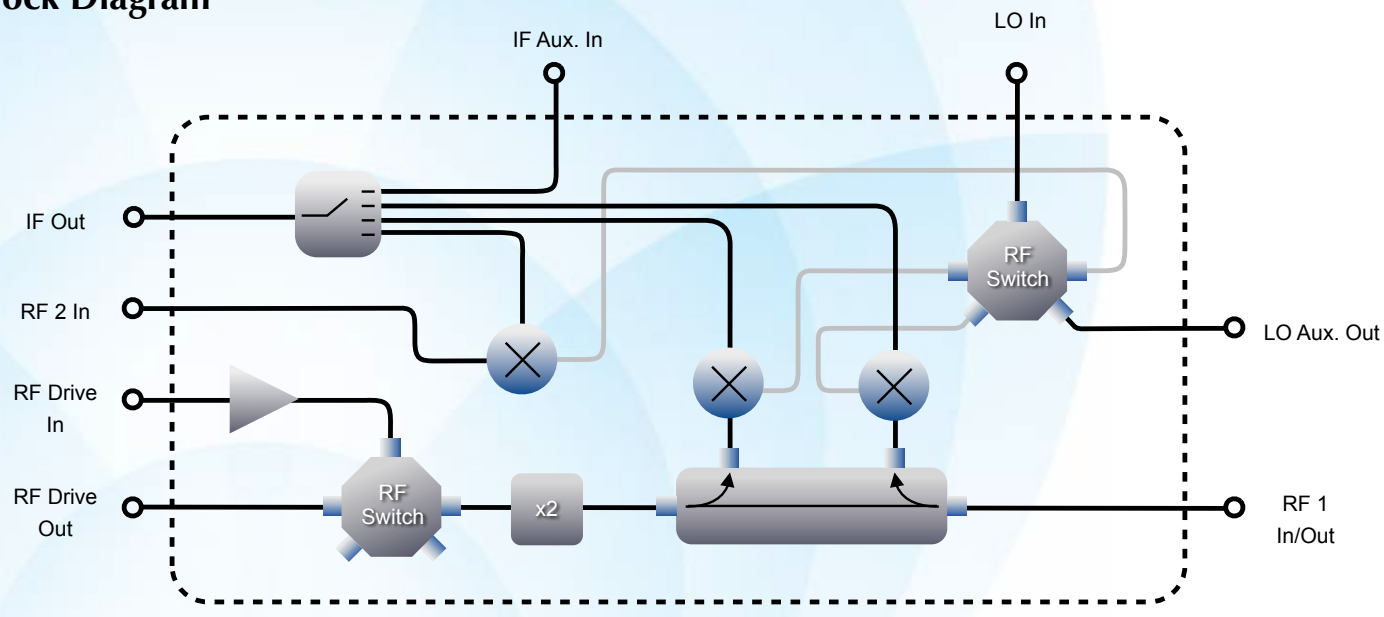
Overview

The RI8563 Test Set extends the frequency and application capability of Cassini's 2-port vector measurements to the 4 GHz - 40.5 GHz range. Calibrated RF paths deliver precision source and measure of signal power, distortion test, s-parameters, and harmonic measurement. Designed to interface with a Cassini receiver and source instrument, the RI8563 can be shared across multiple microwave I/O for fast, precision measurements and maximum channel utilization.

Key Features

- *S-Parameters from 4 GHz to 40.5 GHz*
- *-115 to +8 dBm Measurement Range*
- *0.1 dB Measurement Resolution*

Block Diagram



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Performance

Source

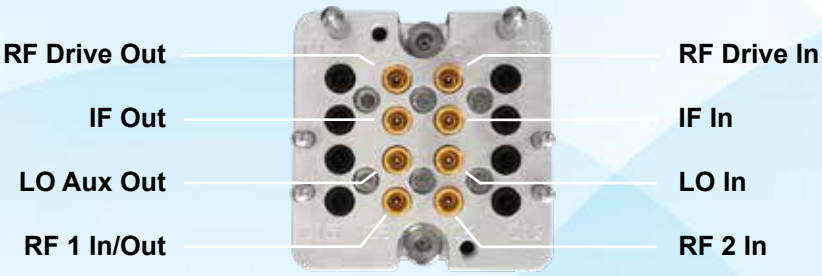
Frequency Range	4 GHz to 40.5 GHz
Frequency Resolution	2 Hz
Power Range	-25 dBm to +3 dBm
Power Accuracy	± 0.1 dB

Measure

Frequency Range	4 GHz to 40.5 GHz
Power Range[1]	-115 dBm to +20 dBm

[1] Typical performance with an RI8587 Receiver

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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