

## Applications

- Automotive Radar
- Ultra Wideband
- Point-to-Point Communication
- Electronic Warfare

## Overview

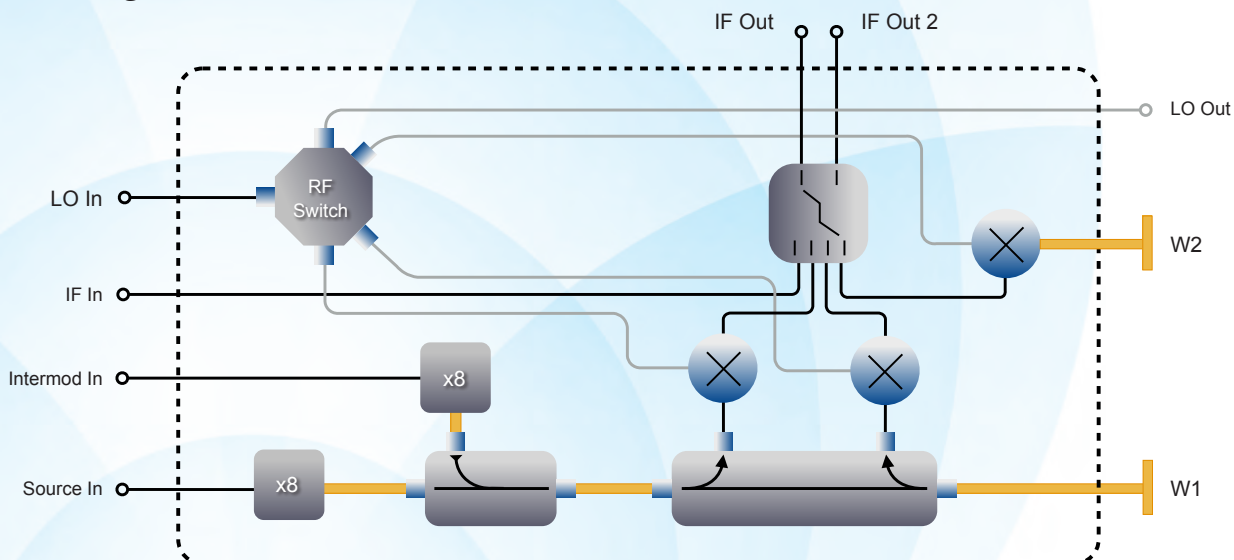
The RI8604 Test Set extends the frequency and application capability of Cassini with a 2-port vector analyzer supporting the 71 - 86 GHz band. With bilateral and unilateral waveguide ports, the versatile architecture delivers a precision 2-tone source and measure of signal power, phase, return loss and forward gain s-parameters. Designed to integrate with a 20 GHz Cassini source and receiver, the test set instrument enables error-corrected vector measurements as well as absolute power measurements.



## Key Features

- *Error Corrected S-Parameters from 71 to 86 GHz*
- *Blind-Mate, RR12 Micro Flange Waveguide Interface*
- *-110 to +10 dBm Measurement Range*
- *-85 to +5 dBm Source Range*

## Block Diagram



### Performance

#### Sources

Frequency Range	71 GHz to 86 GHz
Frequency Resolution	8 Hz
Power Range(Main)	-85 to +5 dBm
Power Range(IM)	-55 to +5 dBm

#### Measure

Frequency Range	71 GHz to 86 GHz
Power Range <sup>1</sup>	-110 dBm to +10 dBm
Sensitivity (W1)	-110 dBm
Sensitivity (W2)	-130 dBm

<sup>1</sup> 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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