

## Applications

- WiGig
- Ultra Wideband
- Point-to-Point Communication
- Wireless USB

## Overview

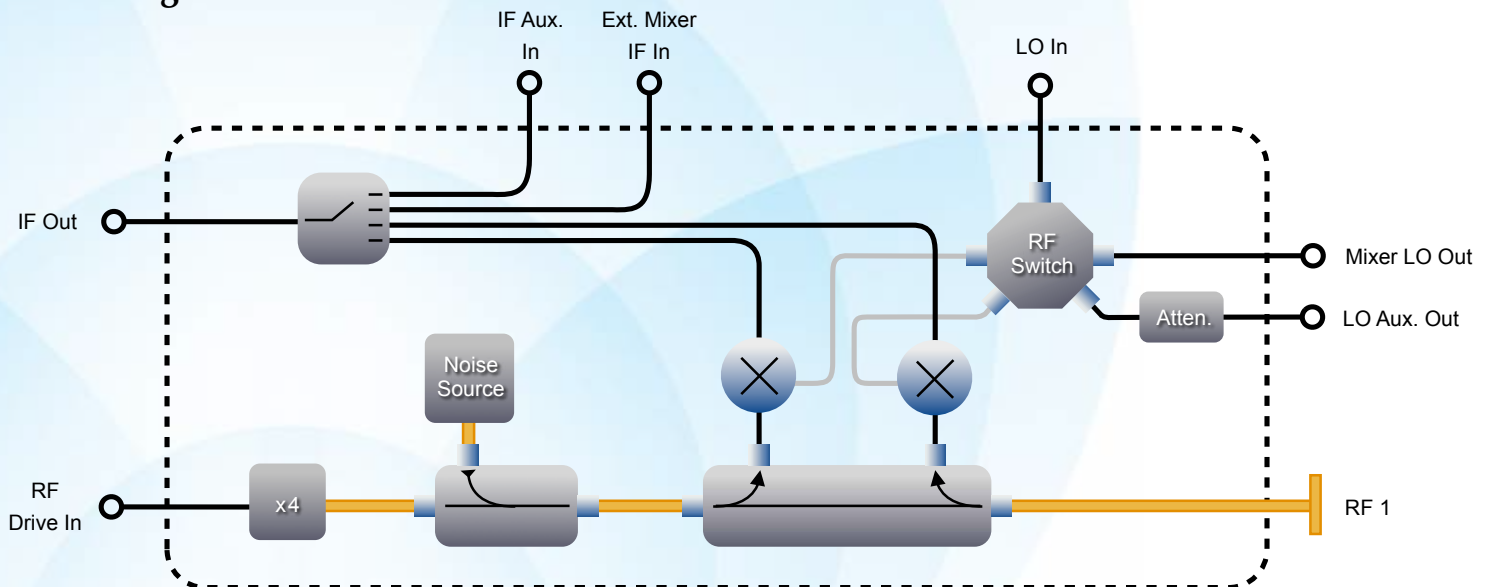
The RI8580 Test Set extends the frequency and application capability of Cassini with a universal high frequency port supporting the 56 to 67GHz band. Calibrated microwave and millimeter wave paths deliver precision source and measure of signal power, distortion test, s-parameters, and harmonic measurement. Designed to integrate with a Cassini source and receiver instrument, the RI8580 enables error-corrected measurements through signal paths that can be shared across multiple test ports for precision microwave tests and maximum channel utilization.



## Key Features

- *Blind-mate Waveguide Interface*
- *S-Parameters from 56 to 67GHz*
- *-100 to +10 dBm Measurement Range*
- *-40 to +11 dBm Source Range*

## Block Diagram



### Performance

#### Source

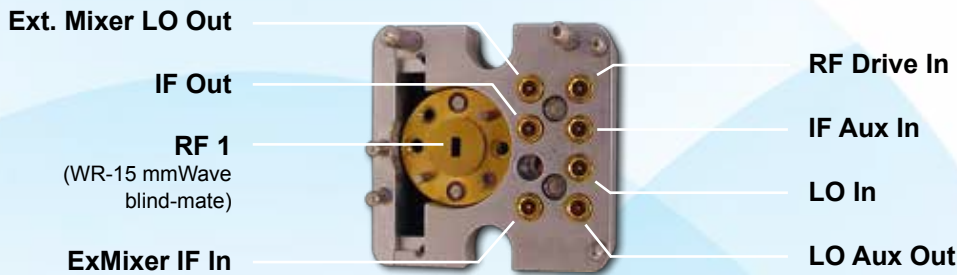
Frequency Range	56 GHz to 67 GHz
Frequency Resolution	4 Hz
Power Range	-40 dBm to +11 dBm

#### Measure

Frequency Range	56 GHz to 67 GHz
Power Range <sup>1</sup>	-100 dBm to +10 dBm

<sup>1</sup> Typical performance with an RI8587 Receiver Instrument

### 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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