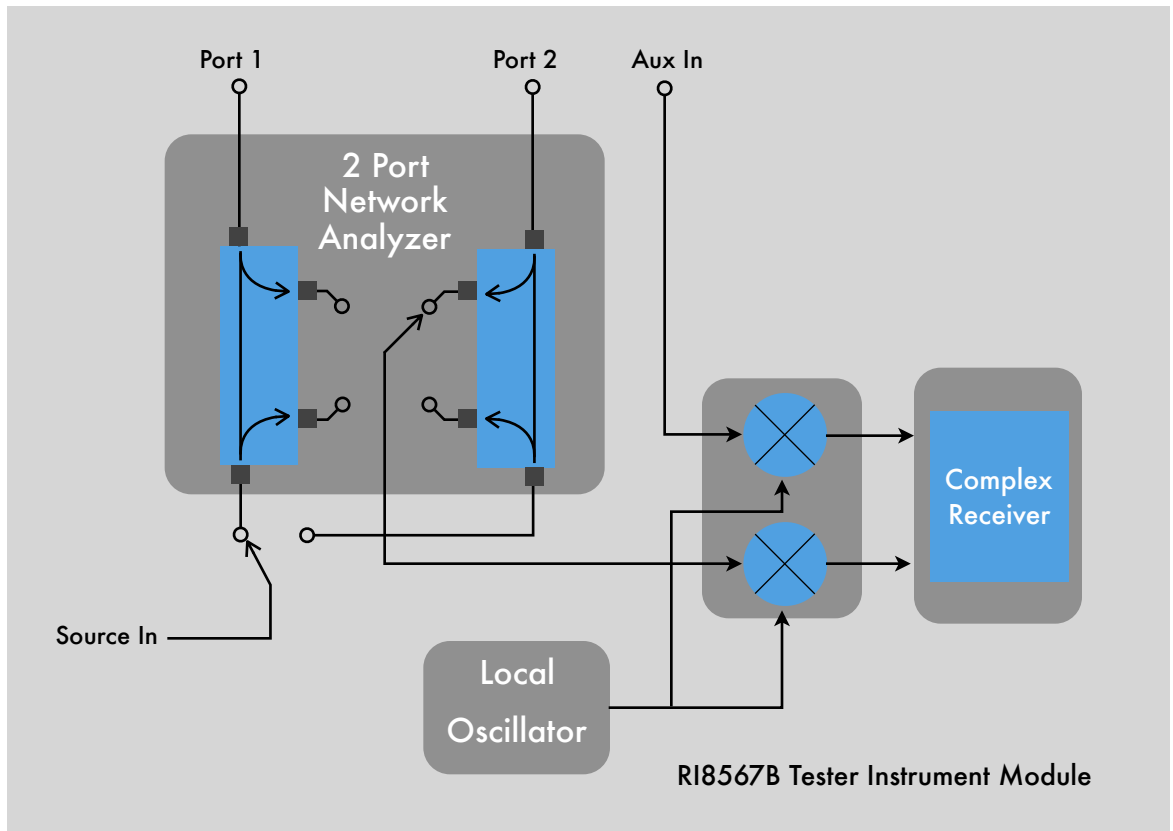




Tester Instrument Module Brief



RI8567B 12GHz Test Set and Measurement TIM

12 GHz Measurement TIM

The RI8567B 12GHz Measurement Test Instrument Module combines a dual port microwave test set, and a complex receiver in a single TIM. An additional Auxiliary port is provided for extended low frequency (down to 100kHz) measurement using the same complex receiver.

An onboard Local Oscillator eliminates the need for any external signal generators.

The built in two port test set provides connectivity to any Cassini based RF or microwave source (up to 12GHz) via test head fixture interconnection.

The test set's 100 μ S switching speed combined with the single channel coherent receiver architecture provides the ability to make high speed multiple port measurements using a single TIM. The dual port capability can be extended to multiple additional ports using an appropriate fixture based multiplexor allowing multiple high port count devices can be tested using a single RI8567B without considerable test time tradeoff.

The RI8567B is available on all Roos Instrument Cassini Testers.

Contact sales@roos.com for more information.



Key Specifications

- ➔ 100MHz to 12GHz Measurement Range (Ports 1 and 2)
- ➔ 100kHz to 4.4GHz Measurement Range (Aux Input)
- ➔ +30dBm Maximum input power (1 Watt)
- ➔ Minimum Detectable Signal -115dBm < 4.4GHz, -100dBm > 4.4GHz

R18567B

Applications

Functional EVM Test

FM Stereo Radio

WCDMA

CDMA2000

WiMax

TD-SCDMA

GSM

ACLR

HD Radio

OFDM

Power Line Networking

Ultra Wideband

3G/4G Cellular

Wireless base station

Broadband communications

VOIP

Hybrid Fiber Coaxial Data

Local Multipoint Distribution (LMDS)

Point - to - Point

Bluetooth

TIM Level Performance Data

Port 1 and 2 Specifications

Minimum RF Frequency	100MHz
Maximum RF Frequency	12GHz
Frequency Accuracy	Same as system timebase*
Minimum Detectable Signal	-115dBm typical < 4.4GHz -100dBm typical >4.4GHz
Maximum Power (CW)	+ 30 dBm
Maximum Power (Modulation)	+30dBm Peak
Switching Time	100µs Typical
Measurement Bandwidth	7kHz or 4MHz (selectable)

Auxiliary Input Specifications

Minimum RF Frequency	100kHz
Maximum RF Frequency	4.4GHz
Frequency Accuracy	Same as system timebase*
Minimum Detectable Signal	-115dBm typical
Maximum Power CW	+20dBm
Maximum Power Modulation	+20dBm Peak
Measurement Bandwidth	7kHz or 4MHz (selectable)

* All time bases for system components are synchronized. Internal time base accuracy is ±1 ppm variation from 10 to 30 degrees C and ±5 ppm absolute accuracy.

Mechanical Specifications

Single TIM Unit
Weight: 8lb.
TIM Block Type: 16 Coax
TIM Blindmate Contact Force: 15lb.

Information furnished by Roos Instruments Inc, is believed to be accurate and reliable. However no responsibility is assumed by Roos Instruments for its use. Specifications subject to change without notice.

Cassini Test Systems

A Complete High Speed Automated and Integrated Test Solution for all types of communications and mixed signal devices.

Cassini test systems consist of a simple base system providing computer, power, software and docking capabilities.

Additional test capability needed for virtually any type of IC, Wafer, or Module can be configured via Tester Instrument Modules (TIMS) that plug into the Test Head plate.

Each TIM contains its own cooling, signal distribution and blind mate interface suited to its application.



The result is the ability to configure a Cassini for any application with almost no system overhead. This is equally true for low pin count as well as high pin count test requirements

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