

Interference Test Set

BERTScope® BSAITS125 Datasheet



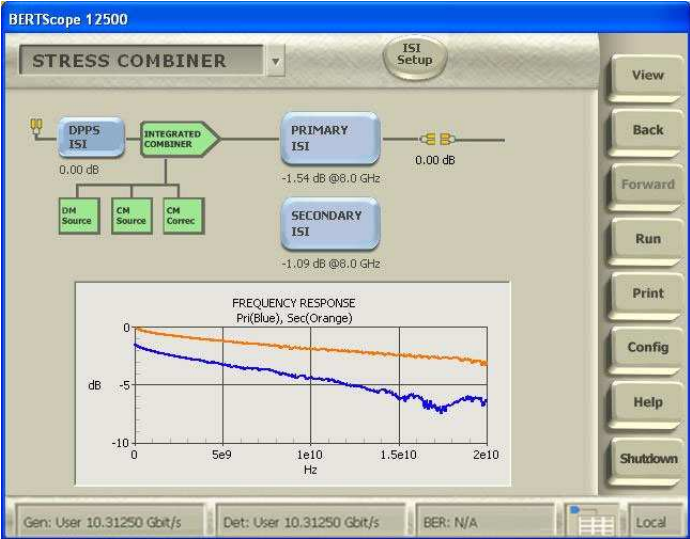
BSAITS125 Interference test set

Applications

- PCIe3 Base specification characterization
- Flexible and programmable ISI for automation of multiple standards
- Customized stressed eye construction

Features & benefits

- Programmable ISI for automated testing of multiple standards
- Integrated PCIe3 Common Mode (CM) and Differential Mode (DM) interference combiner for better signal integrity
- Integrated PCIe3 Base Spec CM interference calibration
- Built-in compliant PCIe2 and PCIe3 Short and Long ISI channels
- Allows switching of custom ISI by adding external ISI
- Optional programmable expanded variable ISI
- Phase matched low-loss cables supplied
- S-Parameters included

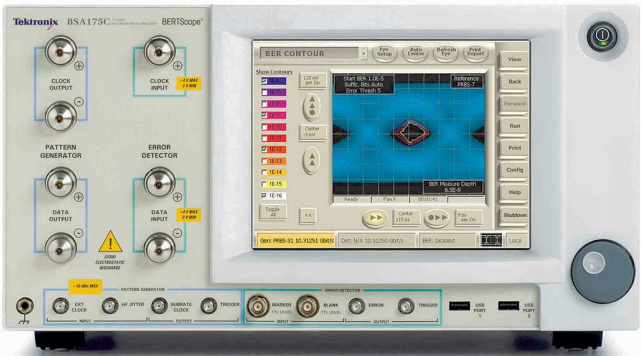


Easy to use graphical interface

Flexible serial bus testing

The BSAITS125 is a flexible addition to serial bus receiver testing, whether bench top or in an automated environment. It provides interference insertion capability suitable for standards such as PCI Express Generation 3, Serial Attached SCSI Gen 3 (SAS), and calibrated ISI channels with automated switching to select between lengths. Two external differential paths are included for user-provided channels to add to the available switched channels.

For more general use in receiver testing applications, option EXP adds extra channel lengths that can be used in combination with the three included lengths to provide a wide variety of channel losses for characterizing receiver performance margins.



BSA175C host instrument

Characteristics

Specifications

Characteristic	Specification	Notes
Inputs		
CM CAL, CMI, DMI	Single Ended	SMA
Coupling	AC, Freq: 2 MHz to 3 GHz	
Operating level	+18 dBm (5 V _{p-p})	+20 dBm (6.32 V _{p-p}) absolute maximum
Primary & secondary inputs	Differential	SMA
Coupling	DC	
Operating level	±4 V maximum	±5 V
Primary & secondary outputs, External paths	Differential	SMA
Coupling	AC	Each leg
Operating level	+24 dBm (10 V _{p-p})	+26 dBm (12.64 V _{p-p}) absolute maximum
General		
Control Interface	USB 2.0	
Dimensions (W × H × D)	39.4 × 10.4 × 53.3 cm (15.5 × 4.1 × 21 in.)	
Weight	6.4 kg (14.0 lb.)	
Power Consumption	<80 W	
Voltage	100-240 VAC, 50-60 Hz	Auto-range, IEC power plug
Power fuse	T 2A 250 V	



BSAITS125 rear view

Ordering information

BSAITS125

PCIe Gen2/3 compliant channel with PCIe Gen3 CM and DM interference combiners

Option EXP

Adds extra channel lengths to provide a wide variety of programmable, variable channel losses for characterizing receiver performance margins.

The BSAITS125 can be operated stand-alone with a PC (not included) or with a suitable BERTScope model.

All Models Include: Power cable (US), USB cable, SMA female to BNC male adapters, 50 Ω 30-in. SMA to SMA coaxial cables, 50 Ω coaxial flex pair cable (APC 3.5 to APC 3.5), semi-rigid SMA to SMA coaxial cable pair, and CD-ROM with software.

CE



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