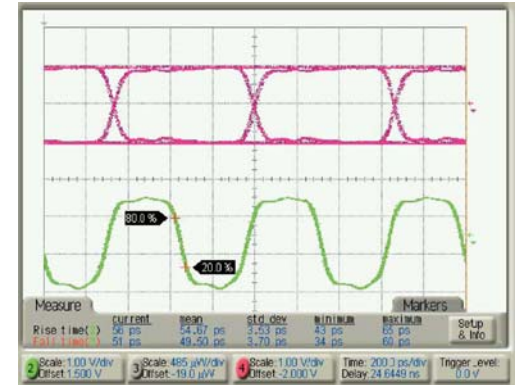


BitAlyzer® 1500/1600 Bit Error Rate Tester Fact Sheet

The Analysis Needed to Find the Source of Bit Errors



Performance and insight for today's data communications testing



Physical Layer Test with a BitAlyzer

Speed up debug of digital signaling errors

- Flexible PRBS Pattern Generation up to 1.6 Gb/sec
- BER Measurements and analysis to BER 10⁻¹²
- BER-contoured masks support analysis of specified 1×10⁻¹² eye opening.
- Pattern capture for easy, customized signal generation
- Automatic delay calibration to compensate for changes in temperature or frequency

Features	Benefits
Pattern Generation and Error Analysis, high-speed BER Measurements up to 1.6 Gb/s	The combination of generation and analysis in one instrument enables receiver BER compliance testing for today's electronic and communications systems
Integrated Stress Generator for stressed eye sensitivity (SRS) and jitter tolerance compliance testing	A test signal's data rate, applied stress, and data pattern can be changed on the fly, independent of each other; enabling a diverse set of signal variations for testing chipset/system sensitivity.
Integrated, BER correlated eye diagram analysis with pass/fail masks	Rapidly understand BER performance limitations, assess deterministic vs random errors, perform detailed pattern dependent error analysis, error burst analysis, and perform error free interval analysis.
Error Location and BER contour analysis on PRBS signals up to 26 GB/sec	Provides a quick understanding of signal integrity in terms of BER. Error location provides detailed BER pattern sensitivities to speed up identification of deterministic vs. random BER errors
ANSI Jitter Measurements (RJ, DJ, and TJ)	Fast, effective method for determining long pattern PRBS31 jitter composition with triangulation. Graphical representation makes jitter analysis more thorough, yet simpler to follow.
BER Contour with Automatic Mask Creation	Measure and view the eye diagram opening as a function of BER.

BitAlyzer® 1500/1600 Bit Error Rate Tester Fact Sheet

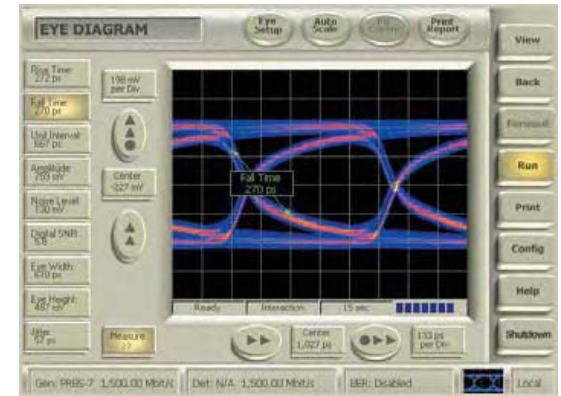
Key Specs and Ordering Information

Models	Data Rate	Description
BA1500	1.5 Gb/s	Bit Error Rate Analyzer
BA1600	1.6 Gb/s	Bit Error Rate Analyzer

Recommended Software Options	
ECC	Error Correction Coding Emulation
MAP	Error Mapping Analysis
PL	Physical Layer Test Suite Software

Fixture, Cable and Kit Options	
100PSRTFILTER	100 ps Rise Time Filter
BSA12500ISI	Differential ISI Board
PMCABLE1M	Phase Matched Cable Pr,1 m
SMAPOWERDIV	SMA Power Dividers
BARACK	BA Rackmount Kit
HDD	Add Hard Disk Drive

Service Options	Description
CA1	Provides a single calibration event or coverage
C3	Calibration service 3 years
R3	Repair service 3 years (including warranty)
R1PW	Repair service coverage 1-years post warranty
R2PW	Repair service coverage 2-years post warranty
R3PW	Repair service coverage 3-years post warranty



Key Applications

Silicon Verification & Debug

Satellite and Wireless Communications

Signal Integrity of Serial Communications Systems

Benefits

Enables quick movement from BER Testing to Debugging on silicon up to 1.6 Gb/s

Complete functional test of BER performance with Error mapping and Forward Error Correction emulation

Support for Mask Testing, Jitter Peak, BER Contour, and Q-Factor Analysis enables a deep level of Signal Integrity insight.