Optical Module Bit Error Meter 2101

Overview

BERTWave™ MP2110A | Bit Error Rate Tester | Anritsu Asia PacificThe BERTWave MP2110A is an all-in-one instrument with built-in 4 channel Sampling Oscillosc.

Key Takeaways

The N2101B PXIT is a high-speed Bit Error Ratio Tester (BERT) designed for precise characterization of optical and electrical devices up to 10. 3125 Gb/s.

Overview

The N2101

B PXIT consists of a high-accuracy clock source, data pattern generator, and error detector, enabling automated bit error ratio (BER) analysis for high-speed devices. It supports 12 standard internal rates from 155 Mb/s to 8. 5 Gb/s, and when paired with a synthesizer like the Agilent N2099A, it can operate at any rate up to 10.

3125 Gb/s, including 10 Gigabit Ethernet (10. 3125 Gb/s) and OC196/STM64 (9. 95 Gb/s) rates.

Key Features

Pattern Generation: Supports PRBS patterns (2^n-1, n=7, 9, 11, 15, 23, 31), K28. 5, K28. 7, and CR patterns, with maximum lengths of 2048 bits or 16 Kbytes if the pattern length is an integer multiple of 64.

BE

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R Measurement: Automatic BER analysis with external clock support for rates from 622 Mb/s up to 10. 3125 Gb/s. Eye Diagram Analysis: Provides eye opening measurement and extrapolation to defined error rates, along with jitter bathtub display and analysis.

User Interface: Features a user-friendly configuration screen for quick setup and operation.

Applications

The N2101

B is ideal for: Characterizing optical modules such as SFP, QSFP, and CFP series. Testing high-speed electrical devices in manufacturing or R&D environments. Integration with PXIT family products like the N2100B Digital Communication Analyzer and N2102B Pattern Generator for comprehensive testing solutions.

Additional Information

The module is supported for calibration, repair, sales, and rental services, making it suitable for both laboratory and production environments. Its high precision and automated testing capabilities ensure reliable evaluation of device performance at high data rates. In summary, the N2101B PXIT BERT is a versatile and high-performance instrument for bit error ratio testing, pattern generation, and eye diagram analysis of optical and electrical devices operating up to 10.

3125 Gb/s, with broad compatibility across PXIT family instruments and high-speed communication standards.

Article Content

BERTWave™ MP2110A | Bit Error Rate Tester | Anritsu Asia Pacific

The BERTWave MP2110A is an all-in-one instrument with built-in 4 channel Sampling Oscilloscope and BERT designed for manufacturing inspection of 10G to 1.6T optical modules.

Keysight N2101B BERT | Apex Waves

The Keysight N2101B Bit Error Ratio Tester (BERT) comprises a high accuracy clock source, a data pattern generator, and an error detector. This module is much smaller than a standard BERT,

Keysight N2101A-H10 BERT | Apex Waves

The Keysight N2101A-H10 Bit Error Ratio Tester or BERT runs a full-capacity bit error rate test frame in a double-wide 3U PXI module. This tester is comprised of a high-precision clock source, a data

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N2101B PXIT 10.3125 Gb/s Bit Error Ratio Tester

The N2101B PXIT 10.7 Gb/s Bit Error Ratio Tester consists of a high accuracy clock source, data pattern generator, and error detector. It will automatically perform bit error ratio analysis to characterize the

Agilent / PXIT N2101A Manual | ArtisanTG

It stores the number of bit errors and the number of compared bits in the structure pointed to by the second parameter. This function is typically used to get the result of a measurement initiated by a call

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The N2101B PXIT 10.3125 Gb/s Bit Error Ratio Tester (BERT) consists of a high accuracy clock source, data pattern genera-tor, and error detector. It will automatically perform bit error ratio analysis to

Bit-Error-Rate Testers – Optellent

It incorporates a pattern generator, clock recovery circuits, and a bit-error-ratio analyzer in one compact module that provides both electrical and optical interfaces at data rates up to 3.2Gb/s.

BERTWave MP2100A, MP2101A, MP2102A Operation Manual

It can generate and measure pulse patterns, measure bit error rates, and display eye diagrams. It is useful for characterizing the performance of optical transceivers, optical links, and other optical

Semight-optical communication-Bit Error Ratio Tester-Semight

It performs error detection and alarm monitoring, serving as an essential tool for bit error testing in R&D and production of optical modules/ devices.

N2101B PXIT 10.3125 Gb/s Bit Error Ratio Tester

The N2101B PXIT Manufacturing BERT is a PXI module that has been designed for testing optical transceivers up to 10.3125 Gb/s

Semight-optical communication-Bit Error Ratio Tester-Semight

Semight-we can provide high-end test instruments including high-speed bit error tester, network tester,optical communication, high-precision wavelength meter, spectrometer, general digital source

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