How to adjust the sampling waveform of an eye meter

This document discusses eye diagrams and sampling oscilloscopes. It explains that eye diagrams overcome limitations of single-value displays by overlapping all possible signal combinations.

Since receiver frequency response largely affects measured waveform, the EYE pattern analyzer should have optimized characteristics close to the ideal frequency response.

For example, if the eye opening is reduced or there is excessive jitter, engineers can adjust parameters such as equalization, amplification, or timing settings to optimize the signal integrity.

How to capture an eye diagram on an oscilloscope using a function or waveform generator. Steps:...more

At the optimal sampling time, the bit error rate of the sample is the lowest, and the bit error rate increases as the sampling time moves to both sides of the time axis, as shown in Figure 6.

Let"s walk through an example to view the new eye diagram measurements. Plot an eye diagram and choose the Eye Measurements tab. Here you can select the Eye Diagram and define the Threshold. ...

In Eye/Mask mode, you can make a multi-valued waveform appear as a single-valued waveform instead of an eye diagram in order to view individual pattern symbols.

Eye diagrams can be easily created for some signals using WaveForms, by measuring both the signal of interest and the clock signal it"s synchronous to and triggering repeated captures ...

In this article, you"ll learn how eye patterns are generated and how to analyze eye diagrams for signal integrity by evaluating the eye height, width, jitter, and amplitude.

An eye diagram is an effective graphical method for evaluating the quality of a digital pattern. The results of its measurements are integral characteristics that describe the quality of the ...

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