To cope with rapid rises in data volumes, data centers are introducing active optical cable (AOC) interconnects with transmission speeds faster than 10 Gbit/s between servers. These interconnects require Eye pattern and BER measurements to assure quality while overcoming problems of long-distance transmissions, high speeds and power consumption.

**One unit measures EYE-BER of differential signal simultaneously**

- Using switch or power splitter...
  - X Degraded waveform/BER and performance
  - X Higher costs and difficult measurement setup

- Using integrated scope + BERT
  - O High-quality BER and waveform measurements
  - O Low equipment cost, simple measurement setup

**One unit measures two channels simultaneously**

- Switch PPG/ED/Scope set and measure:
  - X Long measurement times
  - X No channel crosstalk evaluation
  - X Difficult measurement setup

- BERTWave 2-channel option supports:
  - O Parallel measurement
  - O Short measurement times
  - O Channel crosstalk evaluation
  - O Simple measurement setup

*1: Scope B CH is used normally for waveform monitoring of CH1 reverse-side signals, as well as single-end CH2 signals. In this case, it supports simultaneous Eye Pattern BER measurement of CH1 and CH2 outputs as single-end signals.
2 channels x 6 units measures 12 AOC channels

- Reduces tact time
- Reduces investment costs
- Improves yield
- High-quality waveform
- Crosstalk evaluation

Supports flexible differential/single-end, simultaneous CH1 and CH2 measurements

Simultaneous Eye and BER differential measurements

Simultaneous single-end Eye and BER 2CH measurements

What is MP2100A BERTWave?

Compact, all-in-one, simultaneous BER and Eye-pattern measurements

MP2100A BERTWave

MP2101A BERTWave PE

MP2102A BERTWave SS

Choose from three configurations: BERT + Scope, BERT only, and Scope only.

- Simultaneous BER test and Eye pattern analysis
- 4x Faster remote control
- 10x Higher resolution, 10-ms BER testing
- Internal CDR (standard)
- Independent 2-channel PPD/ED

- High-speed sampling
- Automatic mask margin testing
- High repeatability and low unit-to-unit variation for extinction ratio and mask margin measurement

Visit our website for more details and information on the MP210xA BERTWave series:
http://www.anritsu.com/ja-JP/Products-Solutions/Products/MP2100A.aspx