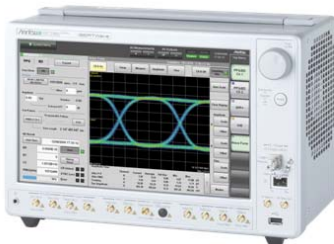
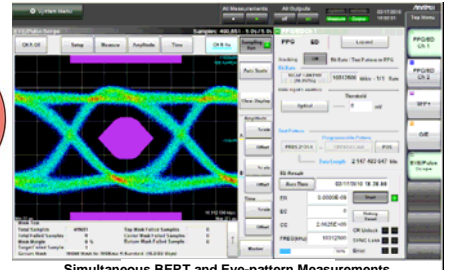
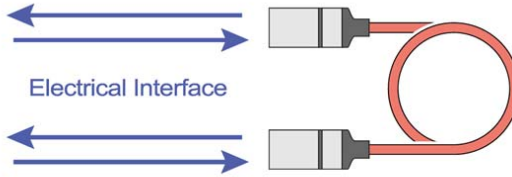


# Active Optical Cable (AOC) Measurement Solution Simultaneous 12-channel EYE & BER Measurements

MP2100A BERTWave Series



Active Optical Cable Evaluation

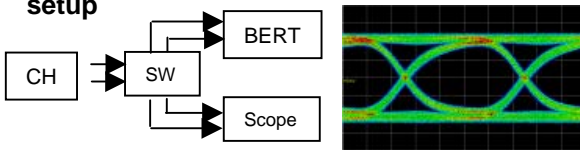


To cope with rapid rises in data volumes, data centers are introducing active optical cable (AOC) interconnects with transmission speeds faster than 10 Gbit/s between servers. These interconnects require Eye pattern and BER measurements to assure quality while overcoming problems of long-distance transmissions,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

## One unit measures EYE · BER of differential signal simultaneously

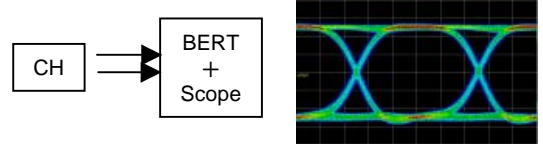
■ Using switch or power splitter...

- ✗ Degraded waveform/BER and performance
- ✗ Higher costs and difficult measurement setup



■ Using integrated scope + BERT

- High-quality BER and waveform measurements
- Low equipment cost, simple measurement setup



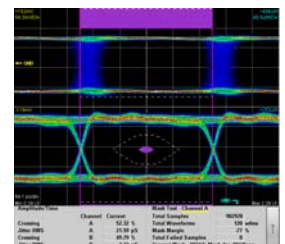
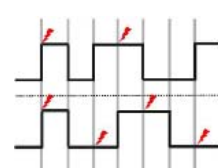
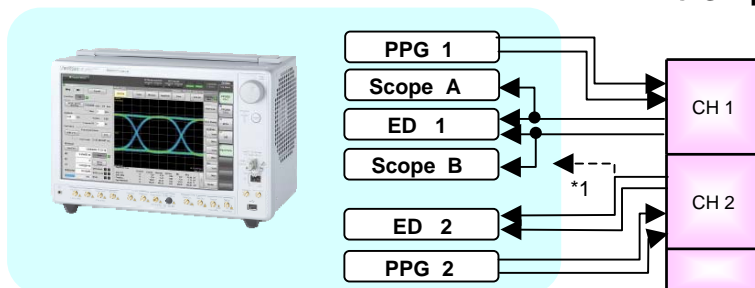
## One unit measures two channels simultaneously

■ Switch PPG/ED/Scope set and measure:

- ✗ Long measurement times
- ✗ No channel crosstalk evaluation
- ✗ Difficult measurement setup

■ BERTWave 2-channel option supports:

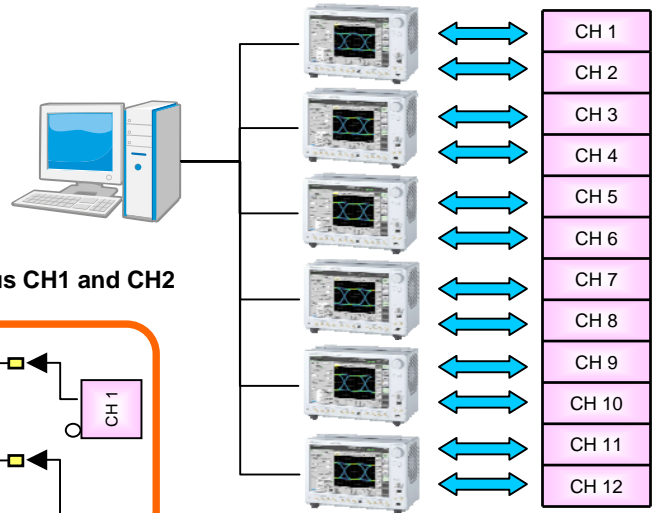
- Parallel measurement
- Short measurement times
- Channel crosstalk evaluation
- Simple measurement setup



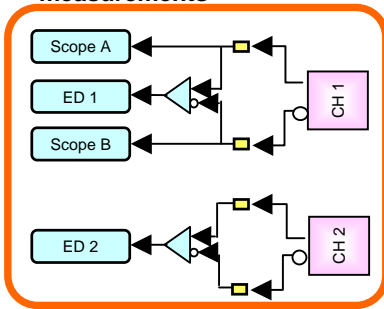
\*1: Scope B CH is used normally for waveform monitoring of CH1 reverse-side signals, as well as single-end CH2 signals. In this case, it supports simultaneous Eye Pattern BER measurement of CH1 and CH2 outputs as single-end signals.

2 channels x 6 units measures 12 AOC channels

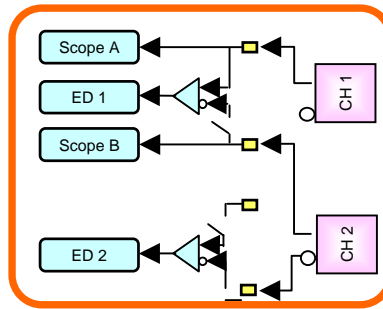
- Reduces tact time
- Reduces investment costs
- Improves yield
- High-quality waveform
- Crosstalk evaluation



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>