Active Optical Cable (AOC) Measurement Solution
Simultaneous 12-channel Eye & BER Measurements
BERTWave MP2100B

Outline
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 four channels simultaneously

Switch PPG/ED/Scope set and measure:

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

BERTWave 4-channel option supports:

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

4 channels x 3 units measures 12 AOC Ch

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

What is BERTWave MP2100B?

10 GbE × 4 ch
Big Value in Small Set

Short Measurement Times
- Simultaneous 4ch BERT and Eye Pattern Measurements
- Simultaneous 4ch BER Measurements
- High-Speed Eye Mask Tests
- High-Speed BER Tests

Full-Featured Analysis Functions
- Wideband Operation Frequency
- Electrical and Optical Interfaces
- Jitter Analysis
- Clock Recovery

Cost-Effective Investment
- Flexible Measurement System Configuration
- Multi-channel BERT

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