
Simultaneous BER Measurements, and Eye Pattern and Jitter Analysis
With installed PPG, ED, and Sampling oscilloscope, the all-in-one unit supports simultaneous BER and Tr/Tf measurements as well as Eye Mask tests using CJPAT and PRBS patterns. Simultaneous Total Jitter (TJ) and Deterministic Jitter (DJ) analyses are supported by the sampling oscilloscope.

Five Times Faster Measurements than Conventional Models
Simultaneous Eye Pattern and Jitter analyses make measurements twice as fast as conventional models. High-speed sampling (150 ksamples) supports 2.5 times faster measurements. Total Jitter (1.0e-12) analysis using Bathtub BER analysis is faster.

Jitter Measurement of Arbitrary Signals
Live signal output from devices as well as arbitrary signals, including PRBS31, can be measured.
**BERTWave MP2100B Lineup**

### All in One
- Built-in BERT and Scope

### 4 ch BERT
- Built-in 1ch to 4ch 12.5 Gbit/s BERT

### 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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**Typical Waveform**

![Typical Waveform Image]

Bit rate: 6.14 Gbit/s, PRBS15  
Amplitude: 0.5 Vp-p, 10^9 samples

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**Features**

- Simultaneous BER and Eye pattern analysis
- 4x faster remote control
- 10x higher resolution, 10-ms BER testing
- Simultaneous and independent 4-channel PPG/ED
- High-speed Eye pattern analysis sampling
- Automatic mask margin testing
- High repeatability and low unit-to-unit variation for extinction ratio and mask margin measurement