

64 Gbaud PAM4 BER Measurement Solution

64 Gbaud PAM4 DAC G0374A

56G/64G bit/s DEMUX MP1862A

Signal Quality Analyzer MP1800A

Next-generation Ethernet standards such as 400 GbE are implementing the PAM (Pulse Amplitude Modulation) method to increase communications speeds between network equipment. The symbol rate per lane in the 400 GbE standard uses 26.6 Gbaud and 53.1 Gbaud PAM4 and development is progressing into higher-speed PAM4 technologies. Combining the Signal Quality Analyzer MP1800A series with the expandable 64 Gbaud DAC and 56G/64G DEMUX with 32G PPG/ED multi-channel and Jitter Tolerance Measurement functions supports Jitter Tolerance measurements of high-baud-rate PAM4 signals.

[Supported Applications] 400 GbE, CEI-56G, High-Speed Interconnects

Features

- Wideband Operating Range: 4.8 to 64 Gbaud*¹ with 400 GbE support
- 64 Gbaud PAM4 signal jitter tolerance tests
- G0374A 64 Gbaud PAM4 DAC and 32G PPG combined signal generation
 - Low Output Jitter 300 fs (rms) high-quality Data output waveforms
 - Supports NRZ, PAM4, Emphasis signals
- Measure PAM4 3-Eye BER*² using MP1862A with high input sensitivity (25 mV (typ.))
 - *1: Error-free (BER <math><10^{-12}</math>) at PRBS215-1 pattern and 56 Gbaud max (typ.) at G0374A-MP1862A loopback measurement
 - *2: Measure selected one of 3-Eye



