

Electrical I/F Evaluation Solution for NRZ/PAM4 Optical Modules

Signal Processing Software MP2110A-098

BERTWave™ MP2110A

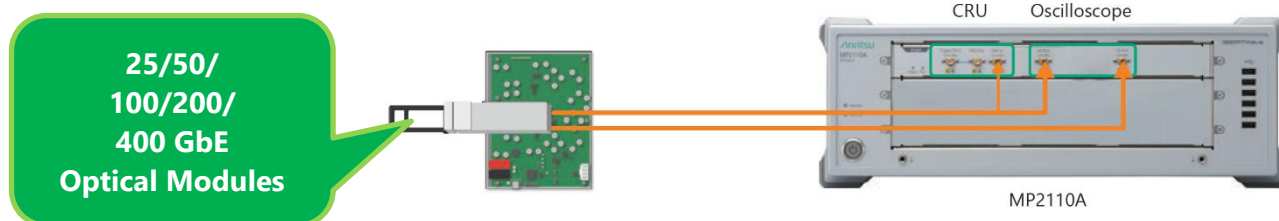


Data centers are switching to PAM4 optical modules to cope with increases in communications traffic on mobile networks. The wide range of PAM4 optical modules for communications applications supports faster speeds of 50 to 800 Gb/s than conventional NRZ technology for easy configuration of flexible networks. Moreover, supply chains are becoming increasingly multivendor with more procurement from third parties, leading to expectations for further cost reductions.

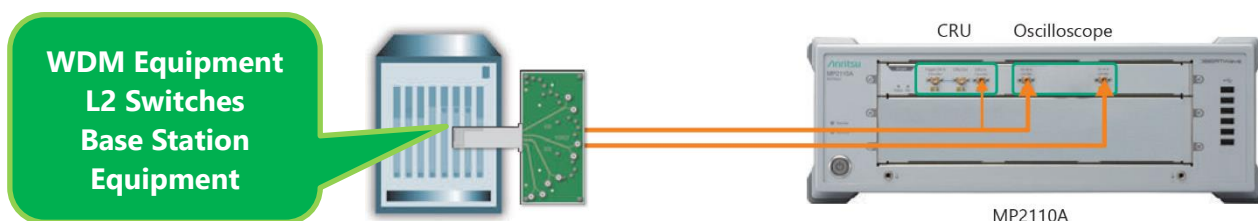
On the other hand, high interconnectivity between optical modules and equipment is required to facilitate implementation of this type of responsive supply chain, and performance can be improved by freer procurement of combinations of equipment and optical modules.

Anritsu's MP2110A is being used by many makers as a sampling oscilloscope for manufacturing optical modules meeting market trends and customers' needs. With its standards-compliant support for PAM4 measurement of electrical interfaces, it is the ideal solution for evaluating electrical interfaces to improve interconnectivity between modules and equipment.

Optical Module NRZ/PAM4 26 Gbaud Electrical I/F (TP4) Measurement



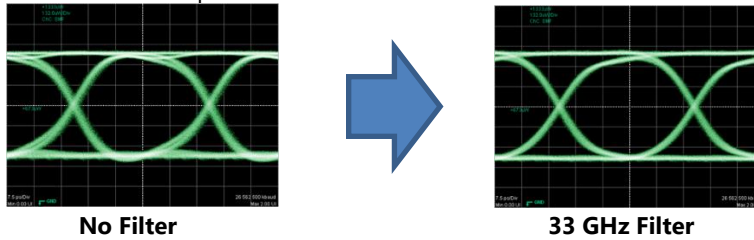
Equipment NRZ/PAM4 26 Gbaud Electrical I/F (TP1a) Measurement



Measurement Solution Introduction

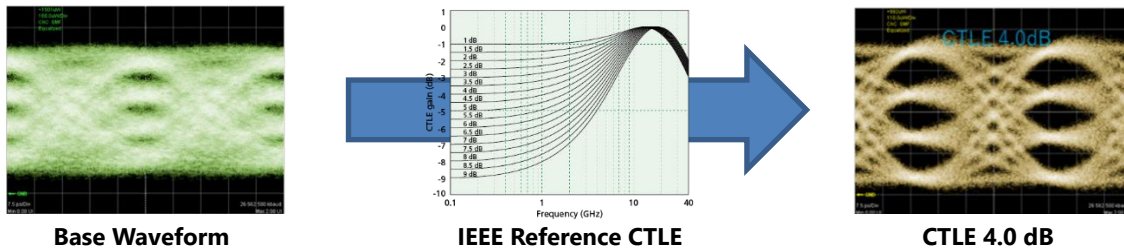
<33 GHz Digital Filter>

This 33 GHz fourth-order Bessel-Thompson filter meets the IEEE standard.



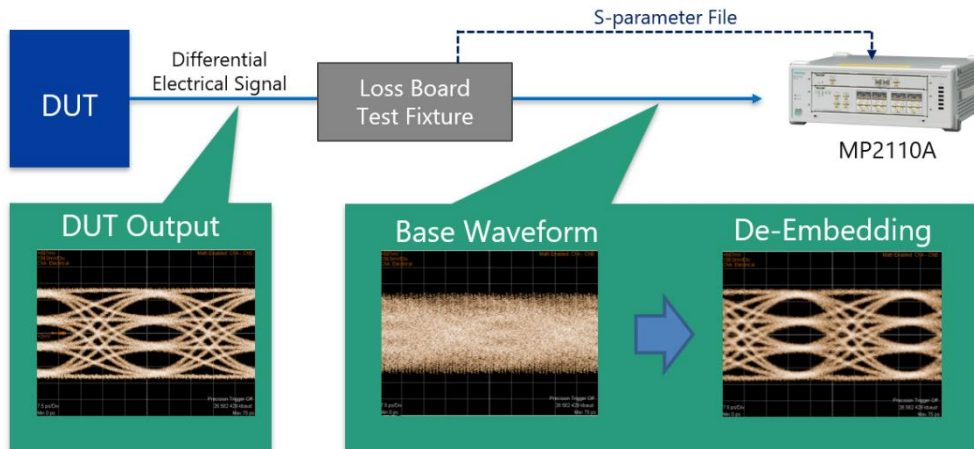
<CTLE>

Waveforms with applied reference CTLE can be measured. Parameter definitions can be edited as text files. IEEE 802.3 bs CTLE (1 to 9 dB in 0.5 dB steps) can be selected as the default.



<De-Embedding>

Loading the S-parameter file (S2P or S4P) for measurement system devices, such as the Loss Board and Test Fixture, can remove signal loss and waveform distortion components generated by these devices.



Ordering Information

- Specify the model/code, name, and quantity when ordering.
- The name displayed on the actual product may differ slightly from the name in the following list. Contact our sales representative for details.

Model/Code	Name
MP2110A	BERTWave
MP2110A-021	Dual Electrical Oscilloscope
MP2110A-024	Precision Trigger
MP2110A-098	Signal Processing Software
MP2110A-095	PAM4 Analysis Software
Additional Options	
MP2110A-054	Clock Recovery for Waveform Analysis

Requires digital filter/CTLE/De-Embedding functions
Required for PAM4 measurement

- Visit the following link for more product details.

MP2110A: <https://www.anritsu.com/en-au/test-measurement/products/mp2110a>