

Marketing Datasheet

ML1016D-CR



26.6/53.1 GBaud PAM4 Optical Clock Recovery Module

Supports 53.1 GBaud PAM4 400GBASE-DR4/FR4/LR4 & 100GBASE-DR1/FR1 transceiver testing

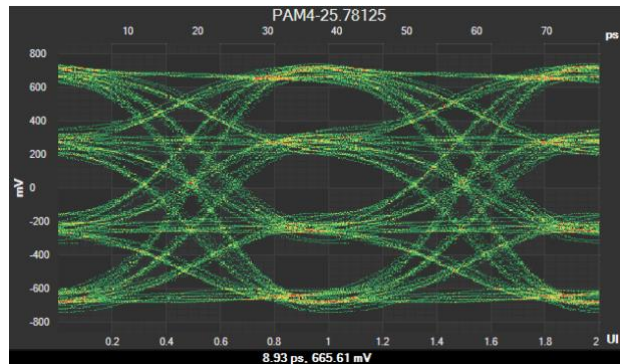
Ideal for 100G Lambda MSA transceivers

Also supports 26.56 GBd PAM4 and 25G NRZ

Triggers ML4015D Optical Scope for Optical Transmitter TDECQ measurement

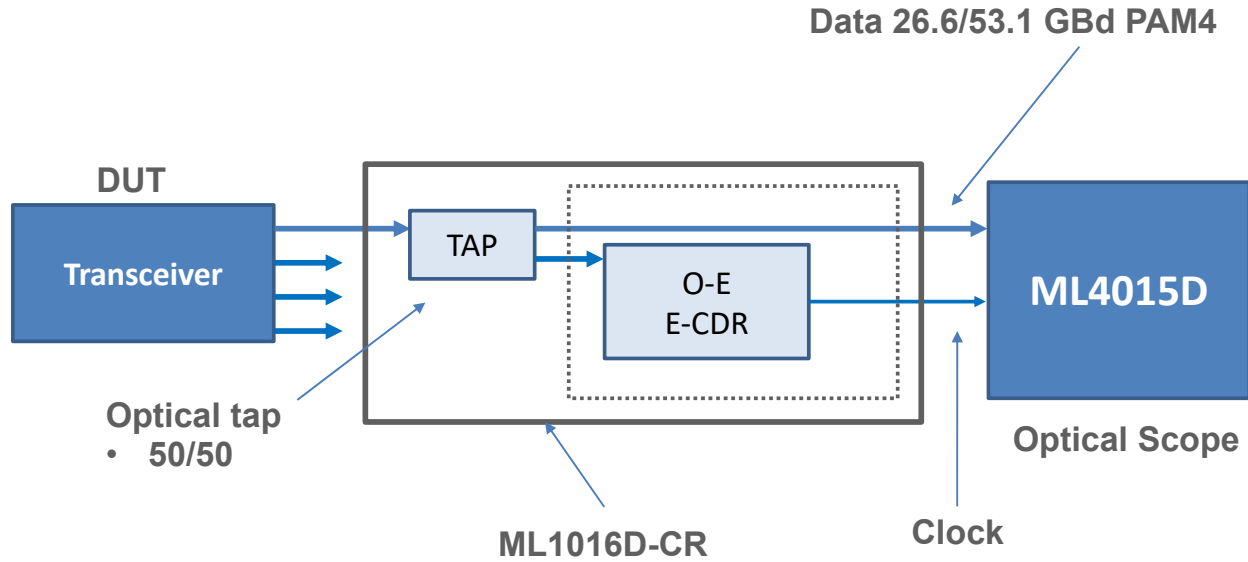
Cost effective test solution

SIGNAL INTEGRITY MEASUREMENT SOLUTION



ML1016D-CR

26.6/53.1 GBd PAM4 Optical Clock Recovery Module



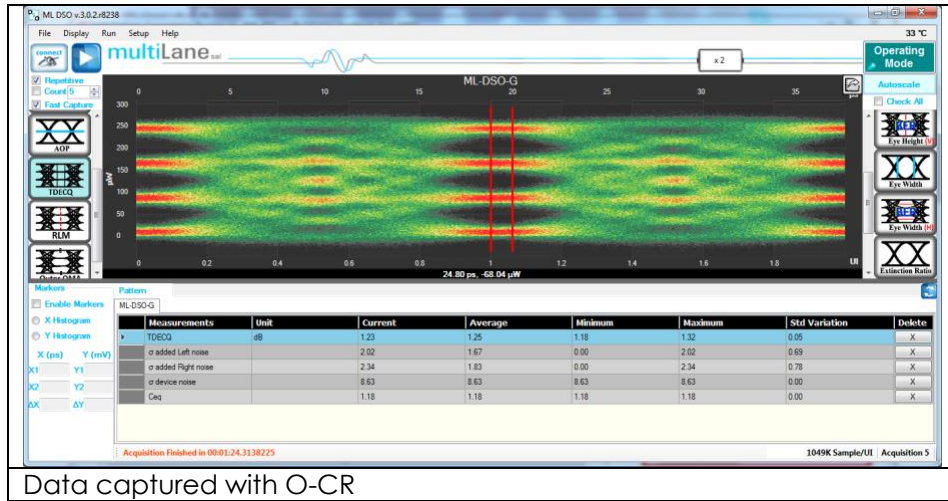
Summary

The ML1016D-CR is a 53.125 GBd PAM4 Optical Clock Recovery Modules ideally suited for 100G Lambda MSA optical measurements. The recovered clock can trigger the ML4015D Optical Scope to perform 53.125 GBd PAM4 optical measurements such as TDECQ, OMA, and ER. ML1016D-CR supports a variety of standards such as 400GBASE-DR4/FR4/LR4, and 100GBASE-DR/FR/LR. In addition, the ML1016D-CR supports clock recovery of other key standards such as 100GBASE-LR4, PSM4, CWDM4, and SR4. Also standards with 26.56 GBd PAM4 signaling format are supported.

Typical Applications

- Production testing of 400G transceivers
- Optical transceiver test
- Transceiver manufacturing test
- Transceiver evaluation and validation
- Incoming inspection of transceivers

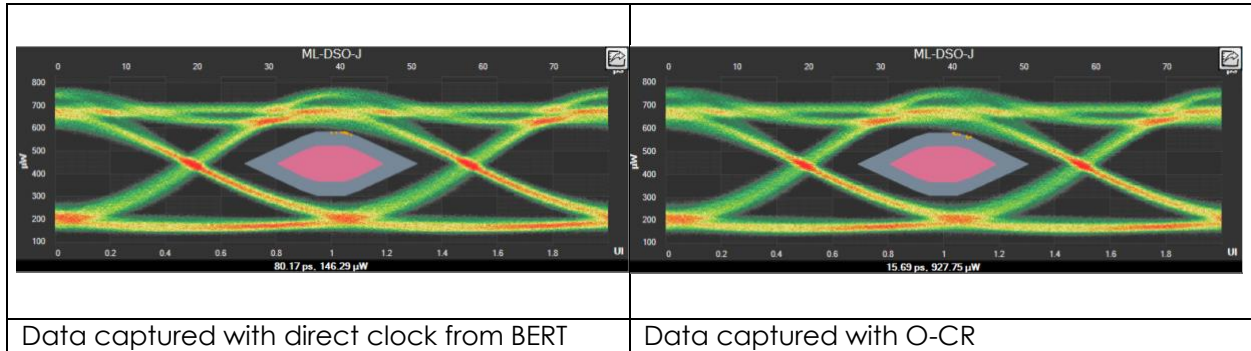
Test Results at 53.125 GBd PAM4



Data captured with O-CR

Data taken on a high quality 53 GBd PAM4 transceiver using MultiLane's ML1016D-CR Optical Clock recovery show a TDECQ value of 1.25 dB.

Test Results at 25.78G NRZ CWDM4



Data captured with direct clock from BERT

Data captured with O-CR

As can be seen from the data above the performance of the O-CR is almost identical to the performance with direct clocking from the BERT. The measured CWDM4 mask margin with a mask hit ratio of 1E-5 is 37.9 and 38.9 % respectively and falls within the margin of error

Mechanical Dimensions

The ML1016D-CR is a benchtop instrument that also fits in a 19 inch 2U rack. MultiLane also supplies the needed brackets.



SIGNAL INTEGRITY MEASUREMENT SOLUTION

Ordering Information

OPTION	DESCRIPTION
ML1016D-CR-	
	Rate & fiber
53PS	53.125/26.56 GBD PAM4, SMF
25NS	25.78G NRZ, SMF
25NM	25.78G NRZ, MMF

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