

Automated Receiver Test for 400GBASE-KR4/CR4

Signal Quality Analyzer-R MP1900A series

PAM4 PPG MU196020A

GRL-8023CK-CRKR-RXA by Granite River Labs

Target test items

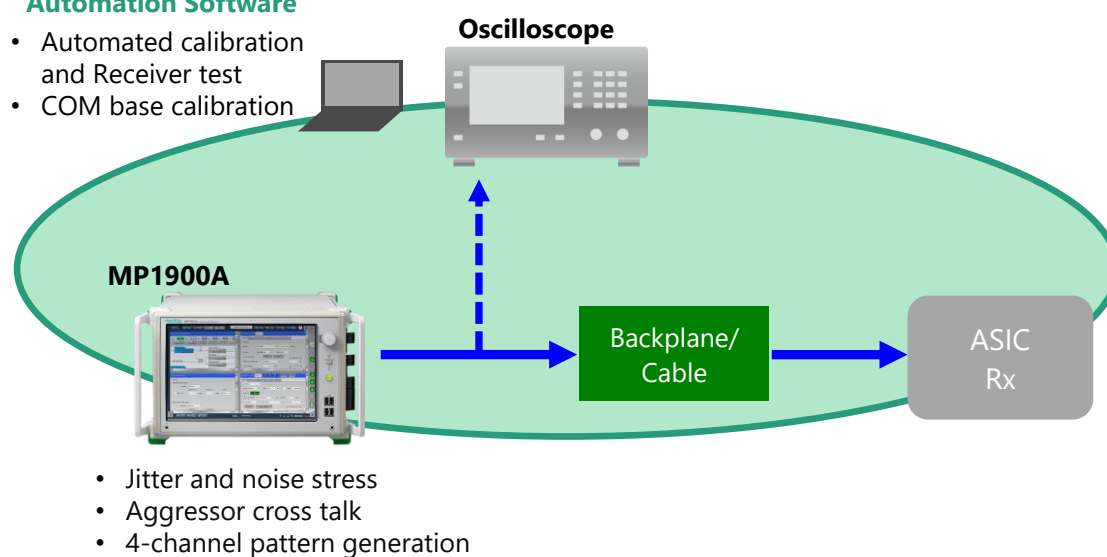
100GBASE-KR1/CR1/200GBASE-KR2/CR2/400GBASE-KR4/CR4 receiver conformance test

Features

- IEEE 802.3ck 100 Gbit/s per lane backplane/cable receiver test
- Channel Operating Margin (COM) base calibration method
- Automated calibration and receiver test
- High quality PAM4 waveform supports highly reproducible measurements

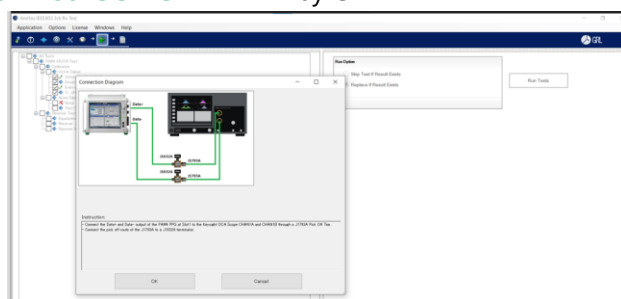
GRL-8023CK-CRKR-RXA Automation Software

- Automated calibration and Receiver test
- COM base calibration



Automated Calibration and Receiver Test

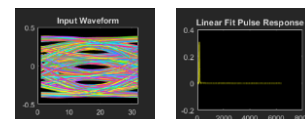
GRL-8023CK-CRKR-RXA by GRL



TP0v jitter and SNDR measurements



COM calculation



Receiver test

ASIC Rx

with Python Script
for DUT control

Recommended Equipment Configuration

Model	Name	Qty	Remarks
MP1900A	Signal Quality Analyzer-R	1	
MU181000B	12.5 GHz 4 Port Synthesizer	1	
MU181500B	Jitter Modulation Source	1	
MU196020A	PAM4 PPG	4 or 3	1-Victim and 3-FEXT aggressors, or 1-Victim, 1-FEXT aggressor, and 1-Noise
MU196020A-002	58G baud		
MU196020A-011	4Tap Emphasis		
GRL-8023CK-CRKR-RXA	GRL-400GBASE-KR4/CR4 Receiver test automation software	1	From Granite River Labs
Keysight N1000A	DCA-X Digital sampling oscilloscope	1	N1060A(085/264/EVA/JSA/PTB), N1091CKCA, N1010100A

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