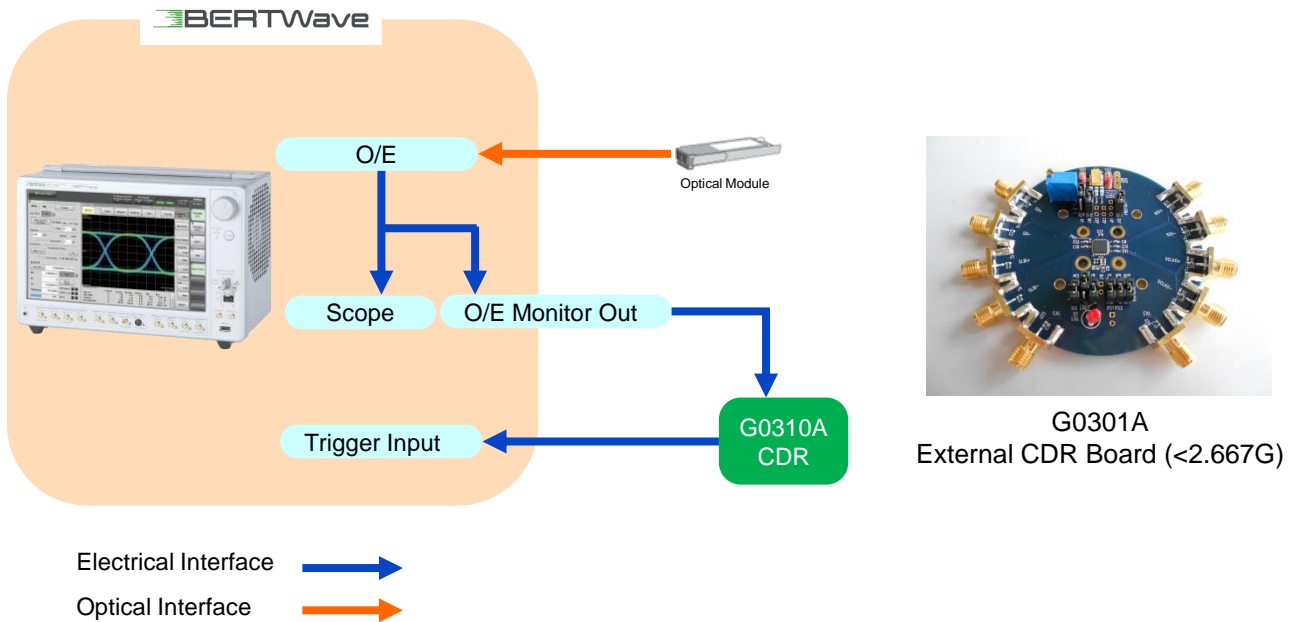


# External CDR Board for Eye Pattern Measurement

## G0301A External CDR Board (<2.667G)

MP2102A BERTWave SS



G0301A  
External CDR Board (<2.667G)

## G0301A Features

- **External CDR supporting 155M to 2.667G**  
Supports clock recovery for 2.667 Gbps (FEC), 2.488 Gbps, 1.244 Gbps, 622.08 Mbps, 155.52 Mbps and 1.25/2.5 Gbps signals.
- **No reference clock for clock recovery**  
Generates synchronized clock signals from serial NRZ data input without reference clock input.
- **Wide loop bandwidth**  
Wide 2000-kHz (max.) loop bandwidth supporting OC-48 measurements in full compliance with ITU-T G.984 for reduced jitter components at waveform monitoring.

## Supported Applications

- OC-3/STM-1, OC-12/STM-4, OC-24, OC-48/STM-16, OC-48/STM-48 FEC
- Gigabit Ethernet (1.25/2.5 Gbps)
- Optical modules for PON and transmission equipment
- Optical modules for CPRI and transmission equipment

## G0301A External CDR Board (<2.667 G) Specifications

Supported Bit Rates	2.666 Gbps, 2.488/2.5 Gbps, 1.244/1.25 Gbps, 666.51 Mbps, 622.08 Mbps, 166.63 Mbps, 155.52 Mbps
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Parameters	Minimum	Typical	Maximum	Units
Supply Voltage, VCC		3.3		V
Supply Current Level		200		mA
Input Current Level	-20		20	mA
Single-End Input Voltage Range	-0.8		0.4	V
Operating Junction Temperature Range	-40		+85	°C

Test Equipment Interface	
Serial Input	SDI±, SLBI±
Data Output	SDO±
Clock Output	SCLKO±

Jitter Transfer Bandwidth	Minimum	Typical	Maximum	Units
OC-3		80	130	kHz
OC-12		370	500	
OC-48		1500	2000	

Output Clock	
Division Ratio	1/1

Input Data Rate	Shunt Positions		
	RS1	RS2	RATESET
2.666 Gbps	2 and 3	2 and 3	1 and 2
2.488/2.5 Gbps	2 and 3	2 and 3	2 and 3
1.244/1.25 Gbps	1 and 2	1 and 2	2 and 3
666.51 Mbps	2 and 3	1 and 2	1 and 2
622.08 Mbps	2 and 3	2 and 3	2 and 3
166.63 Mbps	1 and 2	2 and 3	1 and 2
155.52 Mbps	1 and 2	2 and 3	2 and 3

## Ordering Information

Model	Name
MP2100A	BERTWave
MP2100A-001	Dual Electrical Receiver
MP2100A-007	Single-Channel Electrical BERT, Optical/Single-Ended Electrical Scope
MP2102A	BERTWave SS
MP2102A-021	Dual Electrical Receiver
MP2102A-023	Optical/Single-Ended Electrical Receiver
MP2102A-055	Clock Recovery for Waveform Analysis

Model	Name
MX210001A	Jitter Analysis Software
MX210001A	Transmission Analysis Software
G0301A	External CDR Board (<2.667G)