

CD-4000 Clock data recovery

OPTICAL/ELECTRICAL CDR BOX FOR 28/56 GBd



Efficient CDR solution for the production line.

KEY FEATURES

Supports NRZ and PAM4 signals

Integrated O/E with optical splitter (optional)

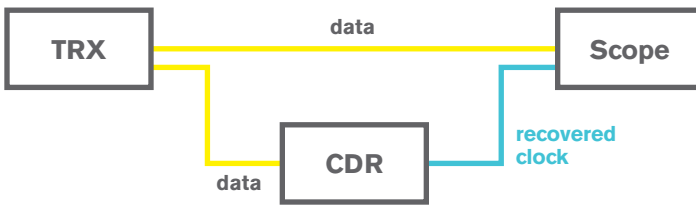
Ultra low random jitter

Auto-locking

SPEC SHEET

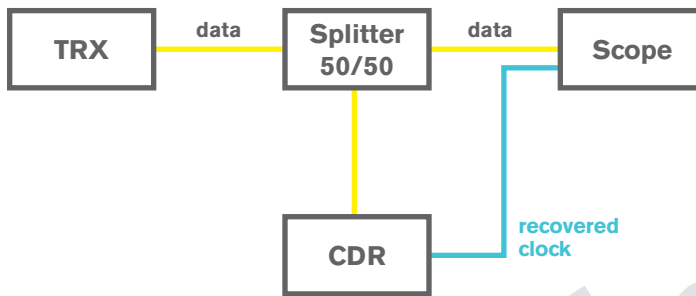
TEST CONFIGURATIONS OF 53G TRANSCEIVER

1

400GBASE-DR4
400GBASE-FR4

Test pattern: PRBS7Q to PRBS16Q and SSPRQ.

2

100GBASE-DR1
100GBASE-FR1

Test pattern: PRBS7Q to PRBS16Q.

Test pattern: limited support for SSPRQ.

OPTICAL SPECIFICATIONS

Symbol rate (GBd)	25 - 56 (depends on model)
Wavelength (nm)	1250 - 1650
Return loss (dB)	-30 (at 1310/1550 nm)
Input sensitivity (dBm)	-5 (at 1310/1550 nm)
Maximum power (dBm)	5
Connector type	FC/PC (9/125 μ m)
Loop bandwidth (MHz)	20
Clock output ratio	/8 for 53G, 56G /4 for 26G, 28G
Recovered clock random jitter (fs)	<290

ELECTRICAL SPECIFICATIONS

Symbol rate (GBd)	25 - 56
Bandwidth (GHz)	25.6 - 31.9
Return loss (dB)	-30
Input amplitude (mV _{ppd})	350 - 550
Connector type	2.92 mm (K)
Loop bandwidth (MHz)	20
Clock output ratio	/8 for 53G, 56G /4 for 26G, 28G
Recovered clock random jitter (fs)	<50

ORDERING INFORMATION

CD-4000-XX-XX

Model

56-O = 28 GBd/56 GBd optical CDR box
56-E = 28 GBd/56 GBd electrical CDR box

Options

50S = Built-in 50/50 splitter
80S = Built-in 80/20 splitter

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