

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

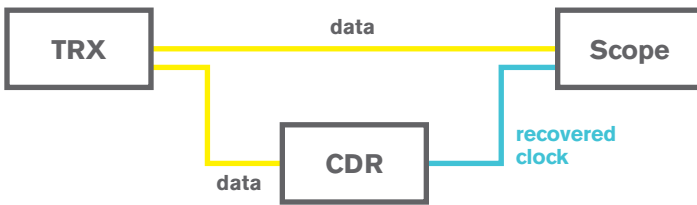
Integrated O/E with optical splitter (optional)

Ultra low random jitter

Auto-locking

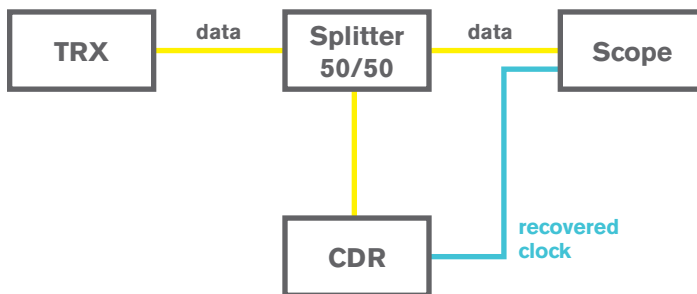
TEST CONFIGURATIONS OF 53G TRANSCEIVER

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)
Damage 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

GENERAL SPECIFICATIONS

Size (H x W x D)	103 mm x 442 mm x 300 mm (4 in x 17.4 in x 11.8 in)
Weight	≤10 kg (22 lb)
Temperature	Operating: 5 °C to 40 °C (41 °F to 104 °F) Storage: -20 °C to 70 °C (-4 °F to 158 °F)
Relative humidity	20% to 80%
Power ^a	100/120 Vac (50/60/400 Hz) 220/240 Vac (50/60 Hz) 60 W typical/80 W max.
Access interface	Gigabit Ethernet (RJ45 port)

a. Operate with supply voltage fluctuations up to ±10 % of the nominal voltage.

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

EXFO headquarters T +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.**

For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.