DC2000

E1 G.703 to EIA-530, V.35 or X.21 Converter

- ■ Cost effective E1 G.703 2.048 Mbit/sec interfacing

- ■ EIA-530, V.35 or X.21 DTE port for router connection

- ■ Easy to install & maintain

- ■ Diagnostics give peace of mind

- ■ Built to European Standards

The DC2000 provides a new level of price/performance in connecting E1 G.703 2 Mbit/s leased lines to DTE equipment such as a router presenting an EIA-530, V.35 or X.21 interface. Data is carried on the E1 line as unstructured payload.

In addition to providing very cost-effective interfacing, the DC2000 provides a test and troubleshooting facility with Remote loop and Local loop test functions as well as a Remotely activated loop test which often eliminates the need for an engineer to visit a remote site for diagnosis of problems. LEDs on the units front fascia panel provide information on the DC2000's operational status.

The figure above shows two DC2000 units with front and rear panels visible. AC mains supply is switchable on the rear panel between 240 VAC and 110 VAC. DC models are also available for a supply voltage of -48VDC.
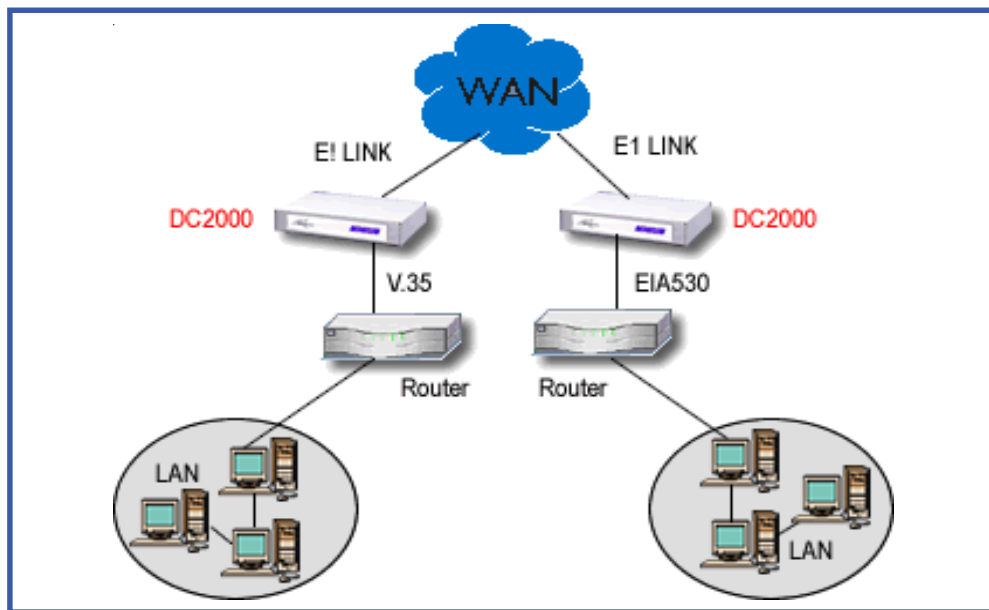
About Metrodata

Metrodata are experts in network connectivity solutions. Based near London Heathrow Airport, we are leading designers and manufacturers of high performance communication hardware for the Fixed line, Satellite, Wireless, Systems integration, Service provision and Corporate networking communities.

Metrodata connectivity products provide solutuions for interface conversion, interface extension and ATM networking from Nx64Kbit/s through to Sonet/SDH.

Metrodata's sound technical and commercial understanding of international data networking issues ensures that we have the solutions for current and future networking needs. Our continuous development program means that Metrodata solutions are state of the art and provide an economic cost of ownership to our customers.

Application Diagram

Specifications

Line E1 Interface	
Port	G.703, 75 ohm unbalanced, 120 ohm balanced
Interface	BNC (75 ohm) RJ45 (120 ohm)
Line Coding	HDB3
Bit Rate	2.048 Mbit/s +/- 50 ppm
Barrier	Fully barriered per EN41003

E1 BNC Cable length	RG59	600m
	UR202	750m

E1 RJ45 Cable length	Belden 8132	175m
	Belden 9841	300m

DTE Interface	
Port	V.35, EIA-530 or X.21 (RS449 with external cable)
Interface EIA-530	25 way D-type
Interface V.35	ISO2593, 34 way female M-rack
Interface X.21	ISO4903, 15 way D-type
Interface RS449	X.21 plus external cable

Configuration	
Clocks	Internal, E1 Receive, DTE mode Set by rear dip switches

Compliance	& Approvals
Performance	BNC version: OTR.001 2DS
	RJ45 version: CTR12, CTR 13,
	E1 interface: G.703, G.823
Safety	EN41003, EN60950
EMC	EN55022, EN50082

Status LED &	Diagnostics
Alarms	Major: LOS, Minor: AIS, Mains power on/off
Loopbacks	Local loop, Remote loop, Remotely activated loop
Data	Tx data, Rx data

Environment	
Temp	0 - 35 degC 95% RH, non-condensing
Pressure	86-106 KPA

Power supply	
Mains Power 1 or by switch	220-240 VAC, 50-400 Hz, 0.25 amp
Mains Power 2	110-117VAC, 60 Hz, 0. 5 amp
DC Supply	-48VDC, 1 amp

Packaging	
Type	Modem, 1U high without feet
Rackmount dimensions	260 x 215 x 44 (without feet) (W x Dx H mm)
Desktop dimensions	260 x 215 x 48 (with feet) (W x D x H mm)

AC models	Part Number
E1 BNC/EIA-530	80-05-001
E1 BNC/V.35	80-05-002
E1 BNC/ X.21	80-05-401
RJ45 EIA-530	80-05-003
RJ45 V.35	80-05-004

DC models	Part Number
E1 BNC/EIA-530	80-21-001
E1 BNC/V.35	80-21-002
E1 BNC/ X.21	80-21-401
RJ45 EIA-530	80-21-003
RJ45 V.35	80-21-004

For more data on Metrodata products and services, visit our website at www.metrodata.co.uk