



Model IC2010 **E1 CSU/DSU SERIES**

Description:

The Betterbox IC2010 E1 CSU/DSU with V.35, X.21, Ethernet, or E1 product series provide an economic solution to E1 network access. IC2010 with V.35, X.21, or Ethernet offers a partial of 31 DS0 channels and clear channel (32 DS0 channels) Loop-E1510 E1 repeater can only work with clear channel. This product series support HDB3 (High Density Bipolar 3) coding and diagnostics.

With V.35 or X.21 port operating from 64 Kbps to 2048 Kbps, IC2010 allows users to interconnect LANs and WANs, CAD and CAM, video conference, mainframe hosts, and others.

IC2010 E1 repeater provides E1 interface to extend the reach of the network up to 1Km.

IC2010 also supports Ethernet Bridge with fractional or clear channel E1 WAN port and single 10/100 Ethernet LAN port with bridging function

IC2010 E1 CSU/DSU series support local control and diagnostics. This allows users to execute diagnostics. LEDs on the front panel provide both line side and DTE side status indicators.

Features:

- DSU functionality integrated with a CSU in a compact package
- DTE interface: V.35, X.21, Ethernet, or E1 Connection to LAN/WAN, CAD/CAM or Hosts to E1 Network Services
- Support VLAN frames and extended frame size of 1532 bytes for Bridge function
- HDLC encapsulation without Ethernet FCS for Bridge function

Ordering Information

To specify options, choose from list below

Note:

IC2010-X21	G.703/704 converter with X.21 interface.
IC2010-V35	G.703/704 converter with V.35 interface.

IC2010 E1 CSU/DSU SERIES PRODUCT SPECIFICATION (Stand Alone)

Network Line Interface (E1)

Line Rate	2.048 Mbps \pm 50 ppm
Line Code	HDB3
Input Signal	ITU G.703
Output Signal	ITU G.703
Jitter	ITU G.823
Connector	BNC/RJ48C (field selectable by jumpers)

DTE (V.35, X.21) Interface

Data Port	Single DTE
Data Rate	n * 64 Kbps (n = 1 - 32)
Connector	M34 for V.35 interface, DB15 for X.21 interface

DTE (Ethernet) Interface

Number of Portst 1
Ethernet function 10/100BaseT, IEEE802.3
Auto-negotiation (10/100M)
Bridge function
VLAN transparent and extended frame size of 1532 bytes
HDLC encapsulation without Ethernet FCS
Connector RJ45

DTE (E1) Interface

Line Rate 2.048 Mbps \pm 50 ppm
Line Code HDB3
Input Signal ITU G.703 with the receiver sensitivity of -43dB at 1024KHz
Output Signal ITU G.703
Jitter ITU G.823
Connector BNC/RJ48C (field selectable by jumpers)

Diagnostics Test

Loopbacks Line Loopback and DTE Loopback

Electrical

Power AC: 100-240Vac, 50/ 60 Hz
DC: 24Vdc 18-36 Vdc
48Vdc: 36-72 Vdc
Power consumption Max. 5W

Physical & Environmental

Dimensions 210 x 41.5 x 140 mm (WxHxD)
Temperature 0 -50°C
Humidity 0-95% RH (NON-CONDENSING)
Mounting Desk-top or rack mount with tray

Standards Compliance:

ETSI ETS 300420, ETS 300419
ITU G.703, G.704, G.706, G.732, G.736, G.823

Certifications

EMI/EMC EN55022 Class A, FCC 15 Class A, EN55024
Safety EN60950-1

BETTERBOX COMMUNICATIONS Ltd
43 BURNERS LANE SOUTH
KILN FARM, MILTON KEYNES, MK11 3HA
Tel (01908) 560200 Fax (01908) 565533
Email: sales@betterbox.co.uk