



E1/FE1 CSU/DSU Series

CV2000

CXR Anderson Jacobson's CV2000 provides the interface between customer equipment and full or fractional E1 facilities. It has a built-in E1 CSU/DSU and one built-in data interface, 10Base-T Ethernet, X.21 or V.35. The type of digital service accessed, full E1 or Fractional E1, is a user selectable option that requires no hardware upgrade.

Highlights

- E1/FE1
- N x 64K
- SNMP Management
- Non-Contiguous TS
- 10Base-T Ethernet
- V.35
- X.21
- Settings via VT100 or AT command
- V.54 Diagnostics

Access

The CV2000 is a low cost interface adapter which converts an unstructured or structured V.11/X.21,V.35 or 10BT data interface to an E1 interface operating in clear channel mode or a FE1 N x 64 kbps in framed mode . The CV2000 allows users to connect routers, FRADs, video-codec and other networking devices to 2Mbit carrier services without having to incur the expense associated with an E1 interface on their data equipment. The CV2000 can also be used in private networks whenever interface conversion is needed. Its robust design and its ease of installation makes the CV2000 an ideal interface converter for carrier service providers and network installers.

When connected back to back to another CV2000 via a single copper pair, the CV2000 can also be used as a 2Mbit long haul modem over a distance up to 1600 meters. The CV2000 is easy to configure all settings being made via VT00 or AT command set.

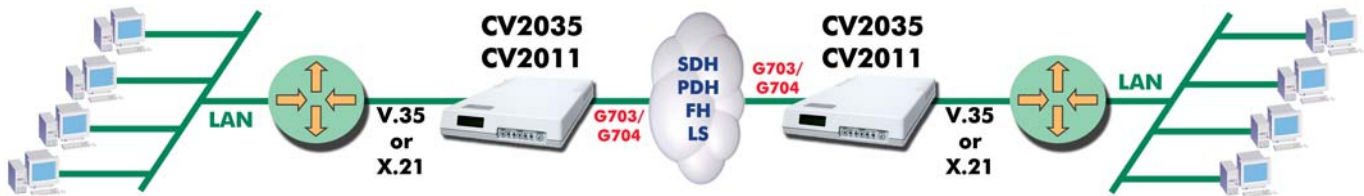


Diagnostics

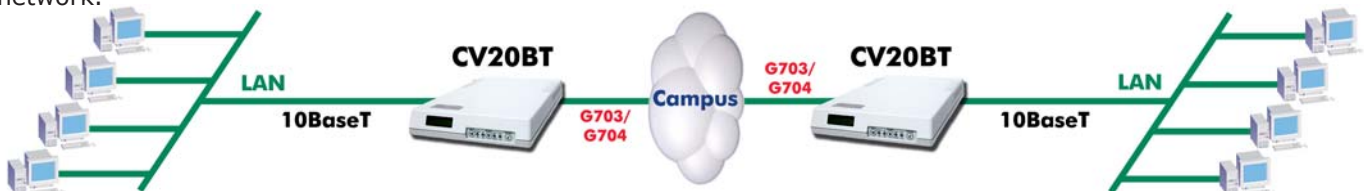
The Anderson Jacobson CV2000 has an extensive set of built-in diagnostic tools to help pinpoint communications problems. Local and remote network interface loopbacks can be initiated from the Command Port or SNMP Network Manager (for rackmount models). User data port testing is accomplished using the local digital and V.54 remote digital loopback commands. The remote digital loop command can be sent to any V.54 compatible device and is usable in point-to-point E1 connections and fractional E1 or integrated access based network applications. The CV2000 includes registers that statistically count Errored Seconds, Seconds in Test, Unavailable Seconds, Severely Errored Seconds and more.

Applications

The CV2000 is used to connect an X.21 or V.35 router to a G.703 /G.704 2Mbit carrier.



The CV2000 is used as an interface converter to connect a 10Base-T Network to an FE1 access in channel mode. The clock used for the synchronization of both the Interface converter and the data equipment is provided by the network.



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Easy & Error Free Operation

The CV2000 has an easy to use menu-driven user interface. Whether it be through the ASCII terminal interface or the SNMP Manager, anyone can become an accomplished operator in minutes. The CV2000 is easy to configure and can be "on-line" in a matter of a few minutes. Monitoring network performance, performing fault isolation or diagnosing network problems is quick and simple using a single button.

Because of Anderson Jacobson's commitment to standards based products, the CV2000 uses SNMP as its network management platform. In today's multi-vendor environment an enterprise-wide network management system that provides access to all of the equipment on the network is essential.

The CV2000 rackmount models have an integrated SNMP agent and can be managed by an SNMP network manager.

The units support MIB1 and MIB II and have an integrated enterprise MIB. Network performance monitoring, unit configuration test and diagnostics can all be accessed and controlled via SNMP.

The SNMP agent is integrated into the CF-IP Network Management card. Because of this, the users do not need a proxy agent to manage the device. The network administrator can manage all CV2000 nodes from the SNMP network management station (e.g. Hewlett Packard's HP Openview) via SNMP. CV2000 equipment is compatible with RFC 1213 MIB II and our own proprietary MIB to give the network administrator maximum control for support of the CV2000 object groups. All of the Anderson Jacobson enterprise MIBs are registered and are publicly available through the Internet.

CV2000 E-Series Technical Data

Interface line G703 version E1

Transparent mode (G703) or framed (G704).
Formats G704 : PCM31, PCM31C, PCM30, PCM30C.
Gigue de phase : G823.
Line encoding : HDB3.
Speeds : 2048 Kbps +/- 50 ppm.
Clocking : Internal, external .
Impedance : 120 Ohms, Connector RJ45
Option (CV2000-BNC) : impedance.
75 Ohms, connectors 2 coaxial.
Isolation 1500V according to ITT K20 et K21.

Interface X21 of CV 2011

DTE Rates : 2048 Kbps +/- 50 ppm in t n x 64 Kbps.
Circuits : T(103), R(104), C(105), I(109), S(114).
Clock of transmission : internal.
Connector DB15 with cable Interface V35 of CV 2035
DTE Rate : 2048 Kbps +/- 50 ppm in t n x 64 Kbps.
Circuits : 103, 104, 105, 106, 107, 108, 109, 114, 115.
Clock of transmission : internal, external and slaved.
Connector M/34 (Winchester) with cable.

Interface 10BaseT of CV 20BT

Speeds : 10 Mbps.
Interface : 10BaseT, IEEE 802.3
Connector : RJ45.
Hardware bridge with learning of 10 000 MAC addresses.
Capacity 15000 pps (memory 255 frame).
Filtering on/off.
Compression of Ethernet frame.

Interface: V35 of CV 2035

DTE Rate : 1536 Kbps +/- 50 ppm in TS n x 64 Kbps.
Circuits : 103, 104, 105, 106, 107, 108, 109, 114, 115.
Transmit Clock : internal, external and slaved.
Connector : DB25 to Winchester adapter cable.

Management port

RS-232—8 bits at 19.2Kbps, no parity or flow control.
VT 100, AT command or menu.

LED Indicators

POWER.
Active interface : RTS/V35, LAN/10BT, C/X21
Synchronization of G.704, red loss of carrier.
ERR : CRC error detection or LCV (Line Code Violation) on G703
DATA : active data on G703.
TEST : active test.

Push button

Cancel alarms.

Administration

Local or remote.
Diagnostics : local loops and distant V54, B3 and B5.
Administration in the AMS16 rack with the CFIP.
SNMP management with CFIP.
Administration thought a network with one time slot (1 to 31) or TS0 with the bit SA4.

Power Supply

External : 230 volts AC : CV2000-PVF.
Internal : 230 volts AC, 4 W : CV 2000-PIF.
Internal : 48 volts DC : CV 2000-PCF.
Rack : CV 2000-PRF.

Physical

Standalone : 196mm x 120mm x 44mm.
Weight : 900g.
Operating temp : 0 to 50 degree C
CE (EN 60950, EN 50081-1, EN 50082-1).

Ordering Configurations

CV 2 XXX—YZE

XXX—Interface (DTE)
011 V11
035 V35
0BT Port Ethernet 10BaseT
Option : lines 75 Ohms with BNC
+ CV2000-BNC

P Standard front panel with LED indicators

Z- Equipment

C internal power supply 48 VDC
I internal power supply 96 to 240 Volts AC
R Rack card for CXR AMS16/4
V stand alone with external power supply
E (ITU) E1

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