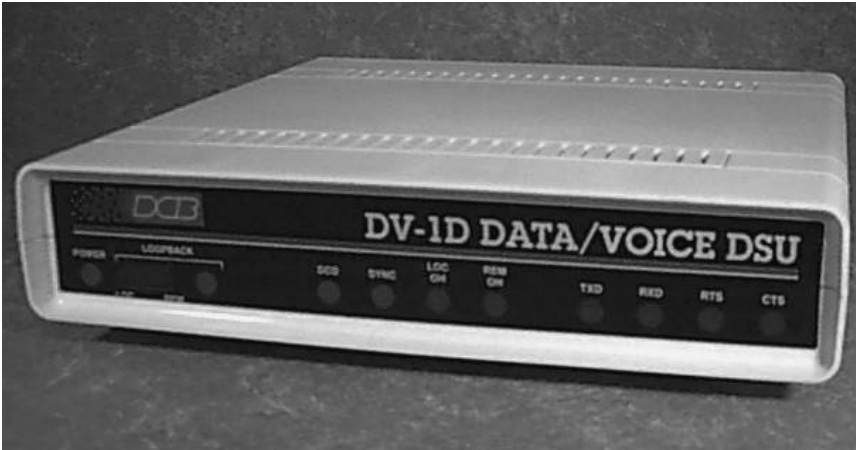




DV-1D DATA AND VOICE MULTIPLEXER

DSU with one voice and one data channel



FEATURES

- One Voice, one Data Channel, with dynamic data bandwidth option
- 56/64 Kbps DSU/CSU with Adaptive Equalization
- 16, 24 or 32 Kbps ADPCM voice
- Dynamic data bandwidth option (for sync data) utilizes full data channel when voice is idle
- 9.6, 19.2, 28.8 or 38.4 Kbps data channel
- Synchronous or asynchronous data channel
- Voice 2-wire and 4-wire voice interfaces, FXS, FXO, PLAR, PABX, 2W/4W E&M
- RS-232, RS-530/422 and V.35 data interface

DESCRIPTION

The DV-1D data and voice multiplexer from DCB makes it easy to combine voice and data over a single 56/64 Kbps digital link. The DV-1D includes the DSU/CSU, one digital channel and one voice channel. The digital interface can operate at 9600, 19,200 or 38,400 bps or can be set to dynamically shift to full data channel speed when the voice line is idle. The DV-1D includes RS-232, RS-530/422 and V.35 interfaces.

The DV-1D has two modular connectors for the voice line interface, one 2-wire and one 4-wire. The 2-wire voice interface provides for connection to a telephone. The 2-wire interface can be set for FXS (station), FXO (office) or PLAR (private line automatic ringdown). FXS and FXO are used to connect PBX extensions to remote locations. PLAR is used at each end to connect single line telephones or key telephone systems to each other. The 4-wire interface is E&M (ear and mouth), used to connect PBX's together using tie lines. A second RJ-48S connects to the digital link. Both loop start and ground start are supported.

The DV-1D has an internal 56 Kbps DSU/CSU. It has standard diagnostic loopbacks, self test, local test, remote test and data interface LED indicators. The data interface can operate either sync or async.

The DV-1D is priced right, making voice an affordable choice any time you are installing a data line between two locations. The DV-1D pays for itself in two years or less versus the cost of a business line at each end of the link. If you have any long distance calling, the DV-1D typically pays for itself in a few months. The DV-1D is always the right choice.

The DV-1D is ideal to use with the DCB SR or SPL multiplexers and routers. Together they give you the lowest cost, highest performance combination of voice, DSU/CSU and statistical multiplexing or routing. Dynamic bandwidth allocation supplies more bandwidth to the data interface when no phone call is taking place. With the DV-1D you can now afford to add voice to every point to point data link.

DCB DV-1D Data and Voice Multiplexer

SPECIFICATIONS

General

56/64 Kbps DSU/CSU
1 voice channel, 1 data channel
Point-to-point application only
Operates on DDS or equivalent digital lines,
or customer owned 4-wire lines

Voice Port Specifications

ADPCM modulation at 16, 24, or 32 Kbps
2 RJ jack connectors
2-wire station option
2-wire office type option
2-wire private line automatic ringdown
option (PLAR)
4-wire E&M for tie line connector
Loop start or ground start

Data Port Specifications

RS-232, RS-530/422, V.35 (DB-25)
(V.35 requires special cable available from
DCB)

Synchronous and asynchronous

Fixed rate of 9.6, 19.2, 28.8, or 38.4 Kbps
Dynamic bandwidth option, with all the
bandwidth available for the data channel
when the voice link is not in use.

Data/Voice Speed Combinations

Voice – Data Rate, Kbps (dynamic option
for sync)
16 K – 9.6 to 38.4 K
24 K – 9.6 to 28.8 K
32 K – 9.6 to 19.2 K

Indicators

Power, Loopback, Signal, Sync, Xmit Busy,
Rcv Busy, Txd, Rxd, RTS, CTS

Controls

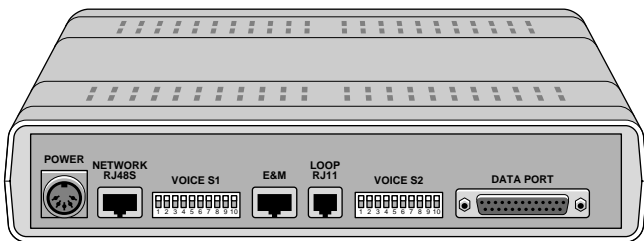
Front panel Remote or Local Loop, or Nor-
mal operation
Rear panel DIP switches for voice channel
mode, 16/24/32 Kbps voice coding,
Receive Voice level, Voice Interface, Data
Channel Interface, Data Speed, Clocking,
Sync, Flow Control, Link Speed, Link
Timing

Telco

Interface: DDS bipolar return to zero
Connector: 8-wire RJ-48S

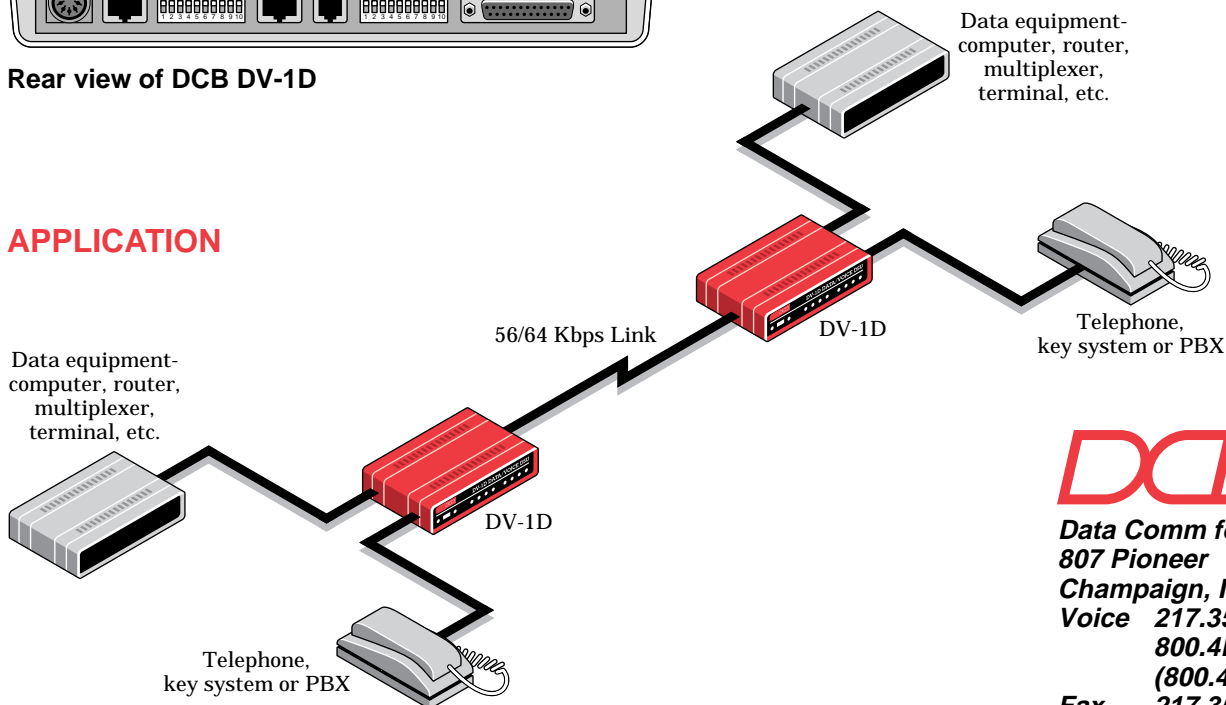
Physical/Electrical

Desk top, optional rack mount
Power requirements: 120 VAC, 60 HZ, 10
Watts
10¹/₄"W x 9³/₄"D x 2¹/₄"H
2.8 pounds



Rear view of DCB DV-1D

APPLICATION



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