PPP-SRDSU

“Simple Router” with 56/64 Kbps DSU/CSU for 1 to 4 remote PCs

FEATURES

■ “Simple Router” for 1 to 4 PCs
■ Remote end solution to reduce equipment cost and maintenance
■ 56/64 Kbps DSU
■ 1 or 4 async RS-232 ports to 57,600 bps
■ Use over DDS or Frame Relay
■ Ideal for Internet or intranets
■ Reliable, high speed private line service alternative to dial up modems
■ Cost effective versus router + NIC + DSU
■ “AT” command spoofing for Microsoft Windows95 and similar dialers
■ Converts async PPP to sync PPP or Frame Relay

DESCRIPTION

The DCB PPP-SRDSU replaces a DSU, router and Ethernet network interface card (NIC) at remote locations for one to four PCs connecting to a corporate network or Internet service provider. The PPP-SRDSU allows computers using async dial PPP programs (Windows95 Dial Up Networking, Chameleon, Spry etc.) to connect on a permanent private line link. A standard TCP/IP router is used at the host site. The PPP-SRDSU has been tested with all major brands of routers.

The DCB PPP-SRDSU is a 56/64 Kbps synchronous DSU/CSU with one or four asynchronous ports. The PPP-SRDSU translates the synchronous protocols from the host router to asynchronous PPP and passes that to the async com ports of the remote PCs. Connection to the host site router is via DDS or frame relay circuits.

The PPP-SRDSU negotiates the link with the computer and router as follows:

1. The PPP-SRDSU responds to the computer’s AT modem commands with the appropriate “OK” and “CONNECT” responses.
2. The PPP-SRDSU presents “Login:” and “Password:” prompts as required by most async PPP dialing programs, and expects a carriage return response.
3. The PC then negotiates the Local Control Protocol (LCP) and the IP Control Protocol (IPCP). After the negotiation is completed, the PC is on line.

The PPP-SRDSU is easy to install and operate. Controls on the unit include a switch to select line driver or phone company clock and a separate management/setup port. The Setup switch is used to access the management port from the user’s PC port. The minimum number of controls and comprehensive indicators make installation and troubleshooting easy. Diagnostic aids built into the PPP-SRDSU include LED indicators.

The hardware cost savings provide a compelling reason to use the PPP-SRDSU. It is especially cost effective where a number of PPP synchronous digital channels are delivered to the phone company via DS-0’s and T1 access multiplexing, or via frame relay. The PPP-SRDSU is a very cost effective alternative to ISDN. In many areas, phone companies charge ISDN users per minute usage rates. At the end of month, ISDN charges for even 8am to 5pm operation weekdays can total hundreds of dollars. A dedicated link using the PPP-SRDSU is often the more cost effective alternative.
**SPECIFICATIONS**

**General**
- 56/64 Kbps DSU/CSU
- Async PPP to Sync PPP or Frame Relay Conversion
- 1 or 4 ports

**Port Specifications**
- Data Format: Async
- Rates: 9.6, 19.2, 38.4, 57.6 Kbps
- Interface: CCITT V.24, RS-232-D
- Connector: RJ -45 (8-wire) EIA/TIA 561
- 1 port to PC cable included

**Network Specifications**
- Rates: 56 or 64 Kbps
- Interface: DDS bipolar return to zero
- Line Driver mode at 56 or 64 Kbps
- Connector: RJ -45S (8-wire)
- DSU to Telco cable included
- Can set WAN side TCP/IP address for pinging

**Operating Modes**
- Point-to-Point DDS
- Frame Relay

**Indicators**
- Power, Activity, Line Error, Modem Ready, Port 1 Setup
- DSU LED's: TXD, RXD, RTS, CTS, DCD, TEST

**Management Port**
- Rate: 9600 bps
- Interface: CCITT V.24, RS-232-D
- Connector: RJ -45 (8-wire) EIA/TIA 561
- Can be mapped to Port 1

**Management Port Commands**
- Help Screen
- Show Configuration
- Show Port IP Address
- Show Frame Relay Status
- Change Port Configuration
- Change Port IP Address
- Change Mux Options
- Change Frame Relay Configuration
- Set ID
- Activity Counters
- Type
- Repeat Last Command
- Disconnect Management Port

**Physical/Electrical**
- Power Requirements: 120 VAC, 60 HZ, 18 Watts
- 10⅛" x 9⅜" x 2⅛"
- One Pound

**APPLICATION**

**Multipoint Frame Relay**

**Point-to-Point**
- 1 to 4 PCs Running Windows95 (etc.)
- Async Dial Up Networking (DUN)

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Rear view of DCB PPP-SRDSU01

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