FEATURES

- Simplex or full duplex links
- Suitable for satellite links
- Capable of single-direction broadcast operation with multi-drop links
- Protocol suitable for single-ended de-multiplexing in a PC
- Synchronous composite to 128 Kbps, async to 115.2 Kbps
- Individually configured asynchronous ports with speeds to 38.4 Kbps
- Network Management Port
- 8, 16, 24 or 32 channel models
- Test message generation
- RS-422 port option with in-line converter
- Field upgradable
- Optional internal 56 Kbps DSU/CSU

DESCRIPTION

The SRDC data concentrator multiplexes 8, 16, 24 or 32 asynchronous channels over a synchronous or asynchronous composite with the ability to operate over simplex or full duplex lines. The links can be modems, DSU’s, ISDN, satellite links, radio links, etc. The composite protocol is simple enough to be decoded by a PC for custom applications. By decoding the protocol in a PC, the SRDC data concentrator can function as a single ended multiplexer. The decode software specification is available at no cost (with a non-disclosure statement).

All port parameters are set with an asynchronous terminal connected to the network management port. Setup procedures are menu driven and fully explained on screen. All configuration parameters are battery supported through power outages.

The asynchronous ports can be individually set for speeds to 38.4 Kbps. Hardware (CTS) or software (Xon/Xoff even, odd, mark, space or transparent) flow control is also set on a port by port basis.

The SRDC data concentrator composite is synchronous or asynchronous simplex or full duplex lines either analog or digital. The composite can be run at speeds up to 128 Kbps sync, 115.2 Kbps async.

The network management port includes all necessary configuration commands. The Show Configuration Commands allow the system manager to view the configuration settings of the SRDC data concentrator. The network management system is full featured and easy to use. Each SRDC comes with a network management cable and connectors. The commands are simple, in English, and comprehensive. The SRDC can usually be set up without referring to the manual. Each SRDC can have an ID set, and has a built-in "data line monitor" which allows the monitoring of the transmit or receive lines at the local data concentrator.

The SRDC data concentrator has a side panel access for firmware cartridge installation. This feature simplifies installation of upgrades for new features and functions.

The SRDC data concentrators are compatible with virtually all async terminal-printer/computer links. You can save thousands of dollars by concentrating your terminals on one line while delivering top performance.
DCB Data Concentrator

SPECIFICATIONS

General
Asynchronous Statistical Multiplexing
8, 16, 24 or 32 channels
Ports can be set up to 38,400 bps

Port Specifications
Data Format
1 Start bit
8 Data bits including parity if used
1 Stop bit
10 Bits total Rates: 300, 1200, 1800, 2400,
4800, 9600, 19200, 38400 bps individually
selectable per port
Interface: CCITT V.24, RS-232-D, Optional
RS-422/RS-232 external adapter
Connectors: RJ -45 (8-wire)
Buffering: 64K dynamically allocated
Port Flow Control: Set on an individual port
basis
Xon/Xoff
Clear to Send

Network Specifications
Rates: Follows modem clock signals to 128
Kbps synchronous, 115.2 asynchronous
Interface: CCITT V.24, RS-232-D, Optional
RS-422 simplex composite adapter
Connector: RJ -45 (8-wire)
Non-error corrected composite link
Network to modem/DSU cable included

Operating Modes
Normal on-line multiplexing
Transmit/Receive or receive only mode
Network loopback

Indicators (front panel)
Power, Multiplexing, Receive Error, Modem
Ready, Option, Loopback

Network Management Port
Interface: CCITT V.24, RS-232-D
Connector: RJ -45 (8-wire)
Network Management Port to terminal
cable included

Network Management Port Commands
Help Screen
LOCAL & REMOTE:
Monitor Transmit
Monitor Receive
Network Loopback
Flow Control Active
Set Time
Device Type
Port Loopback
Reset
Activity Counters

Physical/Electrical
Power requirements: 120 VAC, 30-43
Watts, .25-.36 Amps
10 1/4" x 9 3/4" x 2 1/4" (8 or 16 channels)
10 1/4" x 9 3/4" x 4 1/4" (24 or 32 channels)

Options
9600 bps V.29 4-wire internal modem
56 Kbps internal DSU/CSU

Rear view of 16 channel DCB SRDC Data Concentrator
APPLICATIONS

Point-to-Point Data Concentration To A Workstation

Multiple RS-232 Data Sources

SRDC Data Control

DSU/Radio

Simplex or Duplex Asynchronous or Synchronous Link

Workstation software decodes concentrated data stream

Workstation

RS-232 Data USCR

Modem or DSU

SRDC Data Control

Point-to-Point Data Concentration

RS-232 Data Source

SRDC Data Control

Modem or DSU

Simplex or Duplex Link

Point-to-Point Multiplexing

CPU

SRDC Data Control

Modem or DSU

Simplex or Duplex Link

Terminals

SRDC Data Control

Modem or DSU

Simplex or Duplex Link
Multiple Remote Broadcast Application

Up to 32 Total Devices

Multidrop Satellite, DDS, or Radio Link

SRDC Data Control

DSU/Radio

DSU/Radio

SRDC Data Control

Hosts

RS-232 Data

Data Comm for Business, Inc.
807 Pioneer
Champaign, IL 61820
Voice 217.352.3207
800.4DCBNET
(800.432.2638)
Fax 217.352.0350
Email info@dcbnet.com
Web http://www.dcbnet.com