



# MULTIPOINT ASYNC FRAD

## DESCRIPTION

The DCB Multi-port Async FRAD solution gives your async terminals and PC's cost effective access to public frame relay networks. For Point to Multipoint, the solution is implemented using the DCB SRX at the host site and the DCB SR at the remote sites. Point to Point uses the DCB SR at both ends of the link. Connections can be made at speeds up to 38,400 bps per port with composite link speeds to 128 Kbps.

Frame relay networks can offer low cost communications links. Most international, nationwide and regional telephone companies offer frame relay. Frame relay services are priced competitively because frame relay protocols share the network bandwidth very efficiently among many users.

Public frame relay networks pass data in packets that are error corrected at the end points by the customer equipment, in this case the DCB SRX and the SR. By placing the error correction burden on the customer's end point equipment, data is passed through the network very quickly. Round trip delays are typically equal to or less than round trip delays through modems.

Frame relay networks are typically priced at a flat rate per end point, regardless of the distances between the customer locations. Frame relay service is delivered to the customer at a given access rate, such as 56 Kbps.

The DCB SRX is used as the FRAD at the host site and is available in 8, 16, 24 or 32 ports. The DCCB SR is used as the FRAD at the remote sites and is available in 1, 4, 8, 16, 24 or 32 ports. The SRX and SR have a built-in RS232 Network Management Port for local or remote setup and management. The SRX also includes an LCD front panel display. The Network Management Port connects to any async terminal or PC with serial communications. Each port can be configured separately for speed and flow control. More than one SRX can share a single line at the host by using a DCB MSU-6D line sharing unit or a small customer premise Frame Relay Switch. More than one SRX can share a line that is faster than 128 Kbps by using the customer premise Frame Relay Switch.

For installations with multiple host SRXs, the FRADS can be rack mounted. For host sites with multiple FRADS, the DCB Access Switch is recommended. The Access Switch makes local and remote management easy and convenient. Multiple SRX and other serial management ports are consolidated into the Access Switch for a single point of easy access.



## FEATURES

- Multiport async FRAD (Frame Relay Access Device)
- Line speeds to 128 Kbps
- Port speeds 300 to 38,400 bps
- 4,8,16,24 or 32 user ports
- Point-to-point or point-to-multipoint
- Internal DSU option for 56 or 64 Kbps
- Up to 32 remote sites when operating multidrop
- 1 to 32 ports at a remote site
- Easy installation
- Built-in serial network management port

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## SPECIFICATIONS

### General

Rates: Async port to 38.4 Kbps, 9.6 KBPS default  
Application: Frame relay point to point or point to multipoint for async terminal devices  
SRX host to SR remote for Point to Multipoint  
SR to SR for Point to Point links  
Composite is synchronous RS232, data ports are async RS-232  
Frame relay composites to 128 Kbps  
Management: LMI, AnnexD, None  
Side door accessible firmware cartridge for easy upgrades  
Rack mounting is available

### Controls and Indicators (front panel)

Front panel push button for loopback  
Setup via the "Port One Setup", activated by the front panel push-button, or setup via rear panel RS232 setup port.  
Indicators: Power, Activity, Line Error, Modem Ready, Port 1 Setup, Loopback

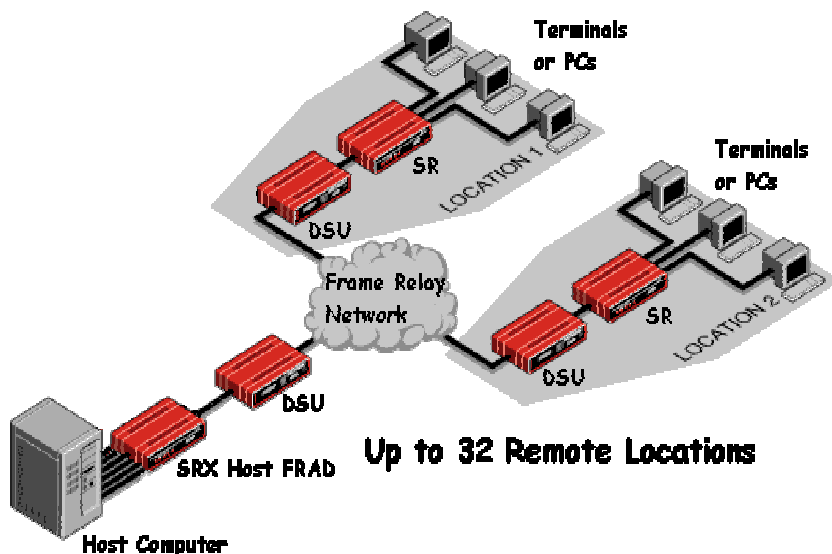
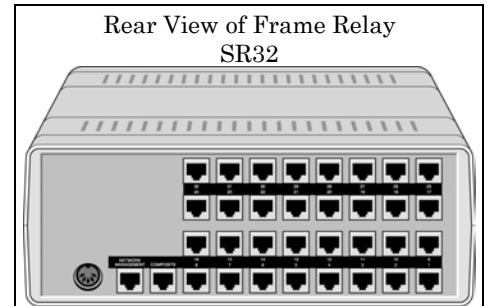
### Data Ports

1, 4, 8, 16, 24 or 32 data ports  
Interface: RS-232, V.24, speeds up to 38,400 bps  
Connector: RJ-45 per EIA/TIA 561 pinouts  
Hardware or software flow control, RTS to DCD end to end control

### Physical/Electrical

Power requirements: 110/220 VAC, external power supply is standard. 12 VDC, 48 VDC, 125 VDC also available  
-40 to +70 C for all DC supplies, up to +50C for 120 VAC & 220 VAC supplies. Hi-temp 120 VAC & 220 VAC supplies are special order  
60 Hz, 18 Watts, 10 1/4" x 9 3/4" x 2 1/4", 24 & 32 port units are 10 1/4" x 9 3/4" x 4 1/2", can be rackmounted

### Application:



# DCB

Data Comm for Business, Inc.

2949 CR 1000E

Dewey, IL 61840

Voice 8004DCBNET

(800.432.2638)

Fax 217.897.1331

Email [info@dcbnet.com](mailto:info@dcbnet.com)

Web <http://www.dcbnet.com>