FEATURES

- Allows async multipoint polling over frame relay networks
- Async RS-232 interface up to 57.6
- Sync RS-232 composite to 128 kbps
- Use for financial, traffic control, SCADA networks
- Internal DSU option for 56 or 64 Kbps
- One and four port master units, one port slave units
- Simple to configure for DLCI drop mapping
- Often more cost effective than multipoint polling modem networks

DESCRIPTION

The DCB BPF Frame Relay Broadcast Polling Frad (frame relay access device) is a frad for async networks that will accommodate almost any byte oriented async polling protocols. The FRAD encapsulates async polling protocols into frame relay format for private or public frame relay networks. The FRAD is easy to set up. Just map a FRAD master port to the remote DLCI's that will receive the polling data. It couldn't be easier or more flexible in its application.

The FRAD makes it easy to convert async polling networks from multipoint modems to frame relay networks. Fast polling modems are disappearing from the market place at the same time async polling system speed requirements are increasing from 1200 to 9600 bps and faster. As remote terminal units become more capable, more data must be exchanged from the host to the remote units for financial, traffic control and SCADA networks. The FRAD is the ideal product for this requirement. It supports async port speeds up to 57.6 Kbps and synchronous frame relay composite speeds to 128 Kbps.

The FRAD is often more cost effective than analog high speed fast polling modems. Frame relay networks are becoming less expensive than analog multipoint networks, and the DSU's are less expensive than high speed fast poll modems. The hardware cost savings provides a compelling reason to use the FRAD.

The FRAD master can have 1 or 4 ports, the slave 1 port. The master version can be used at a host or remote location. The master can have up to 40 DLCI's defined per port. A SR-04FRAD master unit can be used to create 4 different SCADA polling networks via DLCI mapping.

The master version toggles DCD on as data goes out the port, and turns it off milliseconds after the data has exited the port. The slave version does not switch carrier on and off. Both the master and the slave keep blocks of up to 512 bytes together, blocks that are output continuously at the far end to avoid communications time out errors common to SCADA polling systems. The slave SR-BPF is a single channel only version that reads the DLCI number automatically from the frame relay network full status message. The master version requires that the DCLI be explicitly set. The DLCI numbers can be duplicated on the ports of the SR-04 FRAD master to allow it to be used as a sharing device at a remote location.

An internal DSU is available for the FRAD. Both master and slave SR-BPF units have special timers, buffers, control signal handling and data checking to accommodate the requirements typical of SCADA equipment. And, with an internal DSU, you get the entire package you need in a single enclosure.

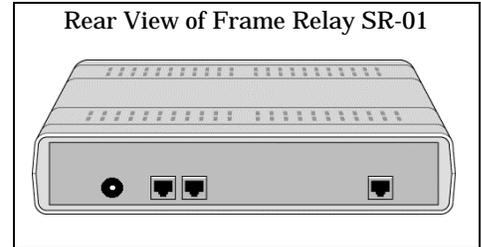## SPECIFICATIONS

General

Rates: Async port to 57.6 Kbps (9.6 Kbps default)

Application: Frame relay point to multipoint for async polling protocols. The master firmware is used at the host. Master or slave firmware can be used at the remote sites. Host units can duplicate a DLCI on different ports, allowing the master units to be used as sharing units at remote locations. Up to 40 DLCI's can be configured per SR-BPF master port. SR-BPF slave units auto-detect a single DLCI.

Composite is synchronous RS232, data ports are async RS-232

Supports frame relay composites to 128 Kbps, LMI, AnnexD, Management=none

Side door accessible firmware cartridge for installing firmware upgrades

Rear View of Frame Relay SR-01

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 setup port. Use to define polling protocol and map DLCI addresses

Indicators: Power, Activity, Line Error, Modem Ready, Port 1 Setup, Loopback

Data Ports

SR-01 - 1 data port; SR-04 - 4 data ports

Interface: RS-232, V.24, speeds up to 57,600 bps

Connector: RJ-45 per EIA/TIA 561 pinouts

Contiguous block sizes: up to 512 bytes

Data Carrier Detect: Toggles on/off with data in FRAD master

Physical/Electrical

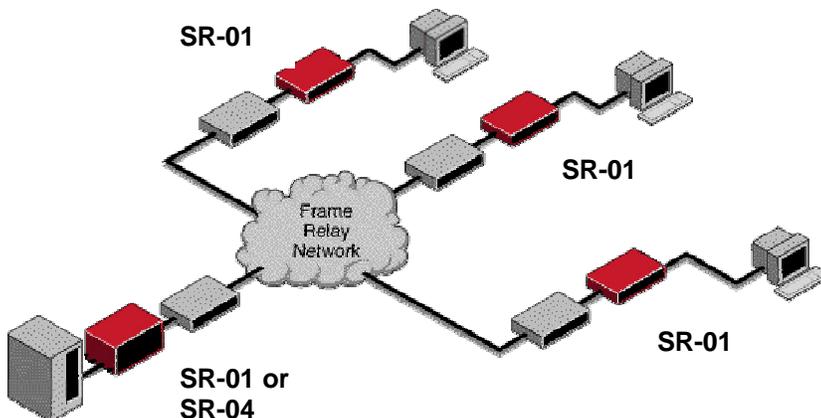Power requirements: 120 VAC, wall mount power

Supply, 220 VAC also available

60 Hz, 18 Watts

10 1/4" x 9 3/4" x 2 1/4"

One Pound

Application:

SR-01

SR-01

SR-01

SR-01 or SR-04

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