FEATURES

- Operates with any combination of 8 DTEs or DCEs
- Synchronous or asynchronous up to 19.2 kbps
- RTS/DCD or data contention
- DCE/DTE switch for main and each sub-channel
- Automatic disabling of sub-channel in event of streaming
- Individual sub-channel manual disable switches
- Internal or external clocks
- 1U height for minimal rack space
- Cascadeable
- Easy to install and configure

DESCRIPTION

- The RSD-10 Digital Sharing Device enables up to 8 modems or terminals to share a master modem, a multiplexer or a computer port in a multipoint environment. It operates at seven selectable data rates up to 19.2 kbps, synchronously or asynchronously.

- Three clock modes are supported: 1) Internal 2) External from the main channel 3) External from DCE connected to sub-channel 1. A built-in buffer overcomes clock differences between the modem clocks connected to the sub-channels and the RSD-10 main channel transmit clock.

- An additional buffer can be switch-selected for equipment which must provide clock to multiple sub-channels. (Examples are D.D.S. in the U.S., any digital service in other countries, or modems that cannot be set to an external clock.)

- Information is broadcasted by the main channel to all sub-channels in parallel. Sub-channels contend to transmit to the main channel by activating RTS/DCD, or by data transition (strap-selectable). If the RTS/DCD or data of a sub-channel is active, the sub-channel’s transmit data and control signals are connected to the main channel. When RTS/DCD drops or data transmission ceases, the control circuitry switches to monitor other sub-channels.

- A sub-channel is disconnected immediately after it drops RTS/DCD or transmits 16 idle bits.

- To prevent blockage to other sub-channels in event of streaming, a sub-channel can be disabled by automatic circuitry if it remains active for longer than a preset time. The automatic disable resets whenever the sub-channel RTS/DCD drops, or 16 idle bits are transmitted (data contention). Front panel indication is provided for each sub-channel disabled by automatic circuitry. The sub-channel can be manually disabled from the front panel as an alternative.

Installation and configuration of the RSD-10 is simple. Minimal strapping adjustments enable easy installation and operation. All necessary crossover connections are performed internally, and only straight-through cables are used to connect the modems or terminals to the RSD-10. The RSD-10 is provided with special hardware for mounting in a 19” rack, occupying 1U in height.

Order RSD-10 from Cutter Networks
Ph: 727-398-5252/Fax: 727-397-9610
www.bestdatasource.com
SPECIFICATIONS

■ Number of Sub-channels
  Eight

■ Channel Configuration
  Lowest priority: Sub-channel 1
  Highest priority: Sub-channel 8

■ Sub-channel Selection
  RTS/DCD or data contention (strap-selectable)

■ Sub-channel Deselection
  RTS/DCD off or 16 bits of idle data (strap-selectable)

■ Sub-channel Disabling
  Manual: Front panel switches
  Automatic: If sub-channel remains connected for more than a preset time: 1.7, 13.5 or 108 seconds

■ Transmit Clock Source
  – External derived from main channel
  – External derived from sub-channel 1

■ Data Rates
  Asynchronous: Up to 19.2 kbps
  Synchronous:
    Internal clock: 1.2, 2.4, 4.8, 7.2, 9.6, 14.4, 19.2 kbps
    External clock: Up to 19.2 kbps

■ Input and Output Interface
  EIA RS-232-C/CCITT V.24, each DCE or DTE

■ Connectors
  Nine D-type 25-pin, female

■ Controls
  Eight manual sub-channel disable push-button switches; one per sub-channel

■ Indicators
  Data: Displays data broadcasted from main channel to sub-channels
  Activity: 8 LEDS: indicate which sub-channel has gained access to main channel
  Disable: 8 LEDS: indicate if sub-channel has been disabled automatically
  ON: RSD-10 power is on

■ Power
  115/230 V, switchable (±10%); 47-63 Hz, 10 watts
  -48 VDC (±10%)

■ Physical
  Height: 4.4 cm / 1.7 in (IU)
  Width: 43.1 cm / 17 in
  Depth: 20.8 cm / 8.2 in
  Weight: 2.0 kg / 4.4 lb

■ Environment
  Temperature: 0-50°C / -32-122°F
  Humidity: Up to 90% non-condensing

ORDERING

RSD-10*
Digital Sharing Device
* Specify power supply: 48 for -48 VDC (default is 115/230 VAC switchable)

APPLICATION

Specifications are subject to change without prior notification