

8-Channel Digital Sharing Device

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



- 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.

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.

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 ($\pm 10\%$);
47-63 Hz, 10 watts
-48 VDC ($\pm 10\%$)

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)

Specifications are subject to change without
prior notification

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APPLICATION

