DESCRIPTION

The MSU-6 is a device designed for sharing one RS232 link with multiple terminal devices. The composite of the MSU-6 is typically accessed by RTS control. The MSU-6 can be modified to logically “OR” the 6 ports to the composite. The devices can be synchronous or asynchronous. The interface is RS232, up to 256 Kbps. All data from the composite, or common channel, is broadcast to all 6 ports. Data from the ports to the composite is sent only from the port that has asserted RTS and has received CTS back from the composite port. Ports are scanned at a sub-millisecond scan rate.

If more that 6 ports are needed, the MSU-6s can be concatenated. Each additional MSU-6 adds 5 more ports, since one port is given up on the primary unit to support the addition of 5 more ports. Concatenating MSU-6 units adds virtually no delay to the system, as switching is done in less than a millisecond, even when concatenated several units deep.

The MSU-6 has active drivers and receivers on all ports. This insures that the unit exceeds the RS232 minimum cable distances. For example, the RS232 standard for 19,200 bps data is 50 feet of cable. With the active drivers and receivers, users often run cables in excess of 100 feet at 19,200 bps data rates.

The MSU-6 has front panel LED’s that show port activity for each port. On the composite, or common channel, there are LED’s for Transmit Data, Receive Data and Clear to Send. There is also a power indicator.
Four Port Modem Sharing Unit for Synchronous or Asynchronous Data

SPECIFICATIONS

General
- DB-25 female ports (6), RS232, DCE
- DB-25 male composite port, DTE
- Serial speeds from 0 bps to 256,000 bps

Indicators
- Port activity of each of the 6 ports (CTS)
- Power, Common channel RD, TD, CTS

Controls
- RTS on the port interfaces are used to select access to the common channel.
- Channels are scanned at a microsecond data rate. RTS/CTS delay is 0 ms.
- Optionally RTS control can be replaced by logical “OR-ing” of all data onto the composite channel

Anti-Streaming control

Physical/Electrical
- 10.25” x 9.75” x 2.5”
- 2.75 LBS including wall transformer
- 120 VAC external wall transformer supply
- Current – 70 ma
- -40 to +70 C operating temperature

APPLICATION:

- Connecting a host computer to remote terminals that are polled using asynchronous polling protocols
- Connecting SCADA host computers to RTU's
- Connecting host computers to terminals using synchronous financial industry protocols (HDLC, SDLC, etc)
- Broadcasting data from a single host port to multiple remote locations, such as multiple signs displaying identical data
- Collecting data from multiple data sources into a single port

TYPICAL APPLICATIONS

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