



MSU-6

Six Port Modem Sharing Unit for Synchronous or Asynchronous Data



- Synchronous or asynchronous data
- 6 ports, RS232 up to 256 Kbps
- Data is broadcast from composite to all ports
- Port to composite is RTS/CTS controlled
- Logical "OR" to composite without RTS control is an available option
- Active drivers and receivers for extended cable lengths
- Units can be concatenated for 11, 16, 21 or more ports
- RTS/CTS port selection takes less than 1 ms
- Anti-streaming option

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 than 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

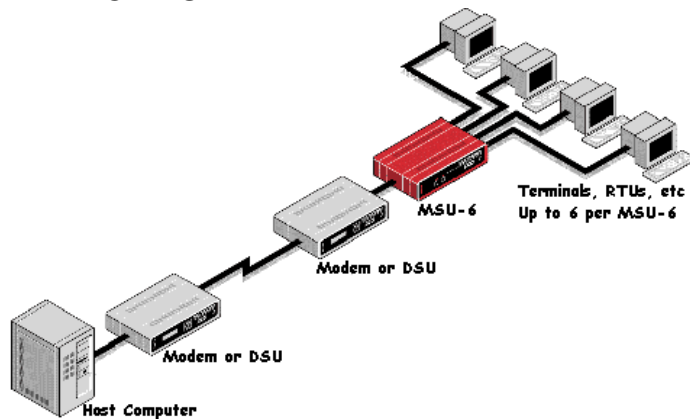
Anti-Streaming control

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

- 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

APPLICATION:



DCB

Data Comm for Business, Inc.

2949 CR 1000E

Dewey, IL 61840

Voice 8004DCBNET

(800.432.2638)

Fax 217.897.6600

Email info@dcbnet.com

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

TYPICAL APPLICATIONS