



SCADA Multidrop MUX

4 Port SCADA Multidrop Multiplexer Combines up to 4 Polling Systems Over One Network



- **Multiplex up to 4 separate polling systems**
- **Each port can have a different protocol and application (DNP, Modbus, SCADA, AMR, etc)**
- **Each port can be set to a different speed**
- **Host to remote port speed conversion**
- **Multiplex over radios, modems, DSUs, etc**
- **Use for SCADA RTU control, metering, load management, etc**
- **Host ports map 1 to 1 to the remote ports**
- **Synchronous or asynchronous composite**
- **Internal spread spectrum radio option**
- **Operating temperature range of -40 to $+70$ C**
- **Standalone, rackmount or wallmount**

DESCRIPTION

The SCADA Multidrop Mux (SMD) is designed for sharing one multidrop radio, modem or DSU system with 2 to 4 multidrop polling systems. With the SMD, one multidrop network can support multiple protocols and systems, such as DNP, Modbus, etc. RTUs can be polled on a multidrop system at the same time other polling takes place for load management, automatic meter reading, etc. The SMD is 50 to 75% less costly than duplicate and parallel multidrop radio, modem, or digital systems. And that savings is just the upfront purchase cost. After factoring the cost of licensing radio systems, installing and maintaining equipment, savings are even greater.

The composite of the mux can be synchronous or asynchronous, speeds up to 115.2 Kbps async, 128 Kbps sync. Ports can be set at speeds up to 57.6 Kbps. The composite and ports are RS232. The ports can be used with just 3-wires (send, receive and ground) or with full RTS/CTS and Carrier Detect control. RS422 adapters are available for the ports. For low bandwidth Ethernet applications, Ethernet can be added using DCB's SCADA Multidrop Etherbridge.

The SCADA Multidrop Mux (SMD) sends data from host terminal ports to the remote units as soon as the data comes into the host ports. All the remote SMDs receive the data. The host SMD is also continually checking the remote SMDs to retrieve any data from remote ports. The SMD units also keeps together blocks of data coming into the ports. This insures that polling protocols such as Modbus RTU will work successfully with the SCADA Multidrop Mux.

Setup of the SMD is simple, using a terminal or PC connected to the management port. Easy to use English command menus are used to set the number of remote drops, the port speeds, port IDs (if desired), the drop number for the remote SCADA multiplexers, sync or async network operation, and control lead timing parameters. The management port can also be used to check system operation, including port activity, link errors, port monitoring, etc. The management port commands are short, simple and comprehensive.

4 Port SCADA Multidrop Multiplexer Combines up to 4 Polling Systems Over One Network SPECIFICATIONS

General

RS232 device ports (4), RJ45 connectors
RS232 composite port, RJ45 connector
RS232 management port, RJ45 connector
RS422 port adapters are available,
P/N 9802034
Port speeds 57,600 bps
Composite speeds to 115.2 Kbps async,
128 Kbps async

Indicators

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

Controls

Loopback, Port 1 Setup, Reset
Management port to set speeds, number of
remote drops, Port IDs, Drop Numbers,
port activity, etc.

Physical/Electrical

10.25" x 9.75" x 2.5"
2 Lbs including wall transformer
120 VAC external wall transformer supply
Optional 220 VAC, 12, 24, 48, 125 VDC
Current - 470 ma
-40 to +70 C operating temperature

Options:

Internal 56 Kbps DSU/CSU for DDS
Internal 900 MHz or 2.4 GHz FHSS
unlicensed radio

Typical Applications:

- Run multiple SCADA applications over a single multidrop system
- Combine SCADA RTUs, load management, automatic meter reading over a single multidrop system, such as a multidrop radio system.
- Save the cost of duplicate parallel systems.



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APPLICATION:

