BLACK BOX®
NETWORK SERVICES

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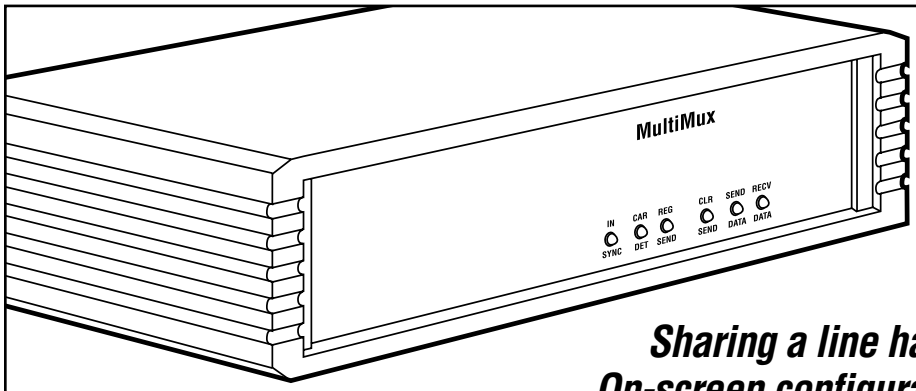
MULTIMUXES



Sharing a line has never been easier: On-screen configuration, automatically sent from mux to mux, makes setting up these units as smooth as silk.

Key Features

- ***Multiplex two, four, or eight async RS-232 data streams onto one sync line.***
- ***Quick, intuitive on-screen configuration on a PC or terminal attached to Port 1.***
- ***New configurations are automatically cross-loaded from the local mux to the remote mux.***
- ***Channel data rates from 300 to 19,200 bps; composite data rates from 9.6 to 64 kbps.***
- ***Set Composite output to RS-232 or V.35 via a switch.***

You know that the phone bill will be ugly (if it isn't already) if you don't consolidate your multiple data lines into one. You could use a multiplexor to cut down on costs—but you know what that will mean. Charts. DIP switches. Opening up the case and fiddling with jumpers every time you move equipment…

Not with our MultiMuxes it won't. You can multiplex two, four, or eight async lines onto one sync line with very little fuss and absolutely no hassle.

To get the mux ready, just plug a PC or terminal into channel port 1, disconnect the composite link, enter a hotkey sequence and a password, and the MultiMux displays a configuration menu right on your screen. You can step through all the available options in moments, using only the spacebar and the [Enter] key.

Even better, as soon as as you reconnect the active line to the composite port of a MultiMux you've just configured, it will automatically send the new configuration to the remote mux.

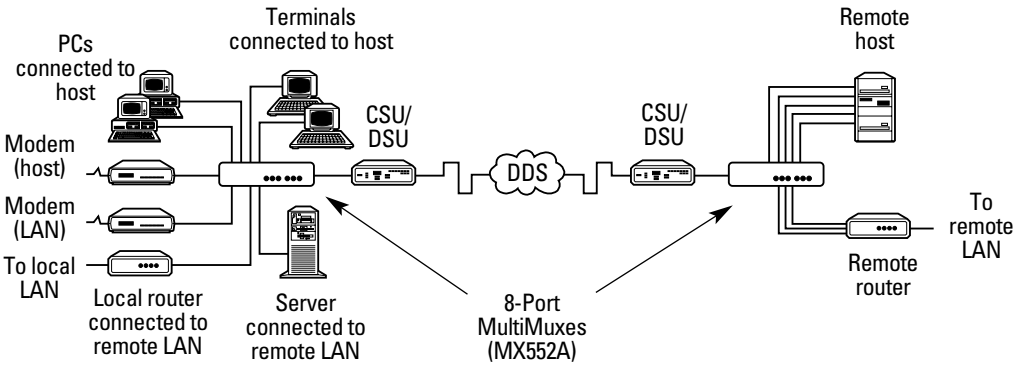
The MultiMuxes' channel ports are asynchronous RS-232 serial interfaces. They are ten-pin RJ-50 female jacks, but short adapter cables are included for each port that patch to DB25 female connectors.

Their default data rate and format are 9600 bps, 8 data bits, no parity, and 1 stop bit, but you can set them to any of twelve speeds up to 19,200 bps, and you can choose any of a number of different data formats (see Specifications on the next page). You can set the channel ports to use eight wires or only three; if you choose the eight-wire option, you can also choose between software and hardware flow control. (But, again, a few fast presses of [Space] and [Enter] is all it takes to get going.)

The composite port is a synchronous serial port in the form of a DB25 female connector. Slide a switch on the back of the MultiMux to make the port either an RS-232 interface (for connection to an RS-232 synchronous modem and an analog line) or a V.35 interface (for connection to a CSU/DSU and a digital line). (To attach regular V.35 cables to this port, you will have to purchase our V.35 Adapter, product code FA058.)

Data rates on the composite side range from 9.6 to 64 kbps; the MultiMuxes will automatically negotiate the highest speed they can get.

You can configure a pair of MultiMuxes even for applications this complicated in less than five minutes.



Specifications

Leads/Signals Supported —

Channel:

With three-wire interface selected:

RJ-50 Pins 5, 6, and 7 (SGND, RD, and TD) respectively;

With eight-wire interface selected:

RJ-50 Pins 2 through 9 (DSR, CD, DTR, SGND, RD, TD, CTS, and RTS) respectively;

Composite:

Set to RS-232:

DB25 Pins 1 through 7, 15, 17, and 20 (SHD, TD, RD, RTS, CTS, DSR, SGND, TC, RC, and DTR respectively);

Set to V.35:

DB25 Pins 1 through 7, 9, 12, 14 through 17, and 20 (FGND, SD A, RD A, RTS, CTS, DSR, SGND, RC B, TC B, SD B, TC A, RD B, RC A, and DTR respectively)

Compliance — CE, FCC Part 15 Subpart B Class A, IC Class/ classe A, UL, CSA

Protocol —

Channel: Asynchronous;

Composite: Synchronous

Multiplexing Method — Statistical

Data Format —

Channel: 5, 6, 7, or 8 data bits; 1, 1.5, or 2 stop bits; even, odd, or no parity (user-selectable)

Flow Control —
RTS/CTS (hardware) or X-ON/X-OFF (software), user-selectable

Operation —
Composite: Full duplex

Data Rate —

Channel: 19,200, 9600, 4800, 2400, 1200, 600, or 300 bps, user-selectable;

Composite: 9.6 to 64 kbps, autosensing/autoadjusting

User Controls —

(1) Rear-mounted RS-232/ V.35 slide switch;

On-screen menus at the PC or terminal attached to Port 1 (when unit is offline only)

Interface —

Channel: EIA/TIA RS-232;

Composite: Either EIA/TIA RS-232 or ITU-T V.35 (user-selectable)

Connectors —

All rear-mounted:

Channel: RJ-50 female (RJ-50 male to RS-232 adapters included):

MX550A: (2);

MX551A: (4);

MX552A: (8);

Composite: (1) DB25 female

Indicators —

(6) Front-mounted LEDs: In Sync, Carrier Detect, Request to Send, Clear to Send, Send Data, and Receive Data

Power —

From external power supply:

Input:

"A" version: 117 VAC, 47 to 63 Hz;

"AE" version: 230 VAC, 50 or 60 Hz;

Output: 12 VAC at up to 2 amps (1.2 amps nominal);

Consumption: 15 watts nominal, 24 watts max.

Maximum Altitude —

Operating: 10,000 ft. (3048 m);

Nonoperating: 40,000 ft. (12,192 m)

Temperature Tolerance —

Operating: 32 to 104˚ F (0 to 40˚ C);

Storage: 32 to 158˚ F (0 to 70˚ C)

Humidity Tolerance —
Up to 95% noncondensing

Size — 1.8"H x 8.6"W x 8.4"D (4.6 x 21.8 x 21.3 cm)

Weight — 2.6 lb. (6.6 kg)

What's Included

- The MultiMux itself.
- Its power supply.
- A users' manual.
- (1) RJ-50 male to DB25 female pigtail adapter cable for each of the MultiMux's channel ports.

Ordering Information

ITEM	CODE
MultiMuxes:	
115-VAC	
2-Port	MX550A
4-Port	MX551A
8-Port	MX552A
230-VAC	
4-Port	MX551AE
8-Port	MX552AE
You might also need…	
V.35 Adapter, DB25 male to M/34 female	FA058
CSU/DSU MS	MT132A-R2
V.35 Data-Line Surge Protector	SP143A-R2
RS-232 (DB25, All Wires) Data-Line Surge Protector	SP360A