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BLACK BOX®
NETWORK SERVICES

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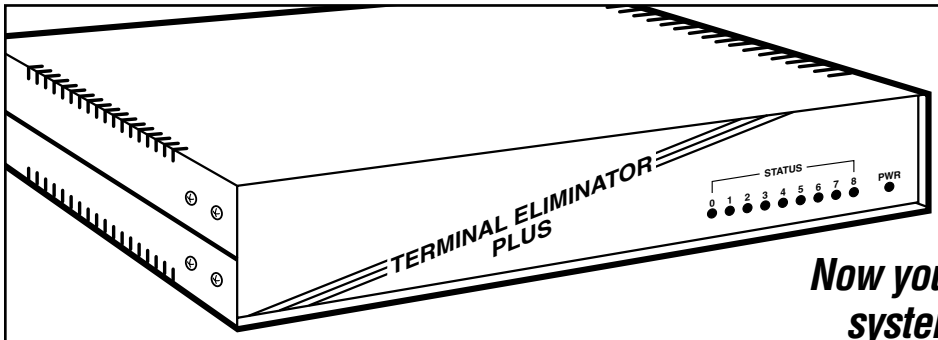
TERMINAL ELIMINATOR PLUS (TEP)



Now you can monitor an entire system from one location.

Key Features

- ***Cascade units, and the TEP grows along with your business.***
- ***Memory can double to 64 KB with optional Memory Expansion.***
- ***Five operation modes handle all types of situations.***
- ***Can be customized to fit your application.***
- ***Optional rackmount kit keeps the Terminal Eliminator Plus out of your way.***
- ***Ten LEDs give you power and port activity—at a glance.***
- ***Supports speeds up to 19.2 kbps.***

Say good-bye to separate consoles for intelligent async devices, including mainframes, data PBXs, network management systems, data loggers, data concentrators, and intelligent test-data sets/analyzers. Thanks to the Terminal Eliminator Plus (TEP), one terminal can perform the work of many.

The standard TEP supports four input devices and one output device. It also features 32K of RAM (approximately 31K is devoted to buffering). You can expand the TEP with a 4-Port Expansion Board that boosts the number of slave devices to eight. In addition, an optional 32K-Memory Expansion can double the device's memory to 64 KB.

If your application calls for more than eight slave ports, you can cascade multiple devices simply by running the slave port of one unit to the master port of another. This cascading method gives you three layers of TEPs from a main TEP—for a maximum of 4096 slave ports.

The TEP lets you clearly identify lines of data with user-programmable labels, too. A variety of format options makes it easy to distinguish data from different devices on the screen.

The device includes five operation modes:

Concentrate
The TEP stores slave data in the buffer until it matches a user-programmable record description. Then it's transmitted out of the master port on a round-robin basis.

Broadcast Only
Lets you broadcast messages from the master port to all connected slaves.

Concentrate & Broadcast
Sends data in the Concentrate mode from the slaves to the master port. Also broadcasts data from the master port to all connected slaves.

Conversation
Lets you communicate interactively with an individual slave.

Transparent Conversation
Lets you communicate interactively with an individual slave—without stripping or inserting data into the data stream.

The TEP works best in applications where most of the operator's console is devoted to output-log-message and status reporting—with an occasional need for interactive responses from the keyboard.

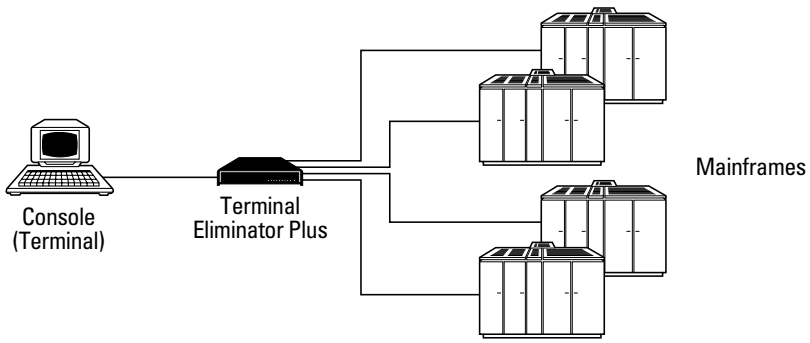
Our expert Technical Support staff can custom program your TEP. They'll be happy to tailor the device to fit your particular multiport async application.

An optional rackmount kit keeps the TEP out of sight. Other features include 10 LEDs for easy monitoring and speeds that range from 110 to 19,200 bps.

Typical Applications

- Concentrate console output from multiple mainframes in a large computer center to one operator's console.
- Poll or concentrate output from other devices—bar-code readers, scales, or security systems—to a master PC.

One terminal gives you access to all the mainframes in your computer center.



Specifications

Speed: 110-19,200 bps

Flow Control: Software or hardware

Data Format: 7 or 8 data bits; odd, even, or no parity

Pins Supported: 2, 3, 5, 7, and 20

Interface: RS-232/V.24 async, DTE/DCE selectable

Indicators: (10) LEDs: (1) Power, (9) Port Activity

Connectors: (1) DB25S female

Operating Mode: Full duplex

Protocol: Asynchronous

Internal Memory: 31-KB buffer, expandable to 59 KB

Power:
For 115-VAC, 60-Hz operation:
From wallmount power supply:
Optimal Input: 115 VAC, 60 Hz @175 mA;
Output: 18 VAC CT @2.2A;
For 230-VAC, 50-Hz operation:
From wallmount power supply:
Optimal Input: 230 VAC, 50 Hz @90 mA;
Output: 18 VAC CT @ 22A

Size: 2.5"H x 12.1"W x 11.1"D (6.4 x 30.7 x 28.2 cm)

Weight:
4-Port Unit: 8.7 lb. (3.9 kg);
With Expansion Board: 9.3 lb. (4.2 kg) including transformer

Technically Speaking

Installing your Terminal Eliminator Plus involves four easy steps:

1. Setting the internal DIP switches.
2. Configuring the DTE/DCE shunt jumpers.
3. Connecting your devices to the slave ports and master port.
4. Connecting the TEP to electric power.

The TEP uses a dynamic buffer. Each input device is given a minimum of 1K of RAM reserved exclusively for that port, so a single port cannot monopolize all of the TEP's space. The remaining memory is distributed among all active ports according to the current demand.

There are a total of 10 LEDs on your TEP's front panel—nine Port-Status LEDs (numbered 0-8) and one Power LED. The Power LED lights up when the TEP is on. Each Port-Status LED will flash or blink if the corresponding port is transmitting or receiving data. The LED will be steadily lit if there's a buffer overflow on the corresponding port. It will remain dark if there's no data activity on the corresponding port. On standard units without a 4-Port Expansion Board, LEDs 5-9 will remain dark.

Ordering Information

ITEM	CODE
Terminal Eliminator Plus	TL482A-R3
4-Port Expansion Board	TL483-C
32K Memory Expansion	TL484
Rackmount Kit	TL486