BLACK BOX®

Product Data Sheet

RS-232 Modem Sharing Devices

Overview

Expand existing, leased line, polled networks without adding computer ports or communications links.

Using the TL704A or TL708A, up to four or eight terminals can share the same port and communications link using the contention and control protocols normally resident in the host hardware and software.

The device increases system and network efficiency through higher host processor use coupled with the significant decrease in idle time between host/terminal traffic sessions.

A buffered model is also available (TLB704A). It uses an 8-bit buffer to prevent data transmission errors caused by clock differentials throughout the network. In applications where the master port and the selected port provide their own clocks, data is clocked into the buffer at the receive clock rate of the active port and clocked out using the master port transmit clock.

Basic Features

- Increases network efficiency.

- Protocol transparent at data rates up to 128 kbps.

- Fully cascadable.

- Individual subchannel enable/disable switches.

- 15 kV ESD protection.

- Ideal for either synchronous or asynchronous environment.

- Uses internal or external clocking.

- Optional anti-streaming circuitry will automatically remove a defective terminal from service if the data/control criteria is present for the user-predefined selection period.

- Housed in a sturdy metal enclosure equipped with an internal 110/220-VAC switch-selectable linear power supply.

- Each port on the TLB704A is DCE/DTE selectable.

- TLB704A's 8-bit buffer can provide clocking for the entire network.

*4-Port RS-232
Modem Sharing Device
(TL704A)*

*RS-232 Modem Sharing
Device, Buffered, 4-Port
(TLB704A)*

*8-Port RS-232
Modem Sharing Device
(TL708A)*

RS-232 Modem Sharing Device Product Data Sheet

Specifications

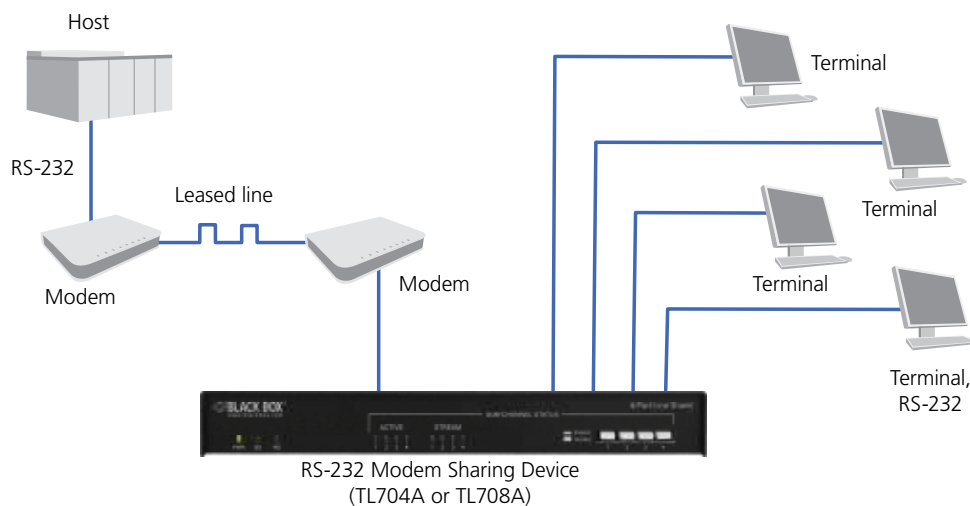|	
Anti-Streaming	Automatic: Selectable timeout intervals; Disable: Selectable via DIP switch
Application	Works with up to (4) or (8) sync/async terminal or DTE devices operating in a polled environment to share one modem.
Approvals	Safety: UL® 1950, CSA C22.2
Buffer	TLB704A: 8-bit
Capacity	TL704A, TLB704A: (4) RS-232 sync/async devices; TL708A: (8) RS-232 sync/async devices
Data Format	Data transparent at all data rates
Data Rate	Up to 120 kbps
Flow Control	Handshaking: RTS/CTS, Optional "OR" mode
Terminal Service Modes	Rotational sequence for equal access
Timing	External, from the attached modem
User Controls	For each subchannel: (1) Enable/disable switch
Interface	EIA RS-232, CCITT V.24 using DB25 female connectors
Connectors	TL704A, TLB704A: (4) DB25 F, (1) DB25 F master port; TL708A: (8) DB25 F, (1) DB25 F master port
Indicators	TL704A, TLB704A: (11) LEDs: (1) Power, (1) SD, (1) RD, (4) Active, (4) Stream; TL708A: (19) LEDs: (1) Power, (1) SD, (1) RD, (8) Active, (8) Stream
Environmental	Operating Temperature: 32 to 122° F (0 to 50° C); Relative Humidity: 5 to 95%, noncondensing; Altitude: 0 to 10,000 feet
Power	100–120 to 200–220 VAC @ 10%, 50/60 Hz, 0.16/0.08 A, external 110/220 volt select switch, IEC power inlet, (2) 5-mm fuses
Dimensions	1.75"H x 13.35"W x 9"D (4.44 x 33.09 x 22.86 cm)
Weight	4.5 lb. (2.1 kg)

Comparison chart.

Comparison Chart: RS-232 Modem Sharing Devices

	TL704A	TLB704A	TL708A
Serial ports	(4) DB25 F, (1) DB25 F master port	(4) DB25 F, (1) DB25 F master port	(8) DB25 F, (1) DB25 F master port
Buffer	None	8-bit	None
Indicators	(11) LEDs: (1) Power, (1) SD, (1) RD, (4) Active, (4) Stream	(11) LEDs: (1) Power, (1) SD, (1) RD, (4) Active, (4) Stream	(19) LEDs: (1) Power, (1) SD, (1) RD, (8) Active, (8) Stream

Item	Code
RS-232 Modem Sharing Devices	
4-Port	**TL704A**
8-Port	**TL708A**
Buffered, 4-Port	**TLB704A**

A typical application of the RS-232 Modem Sharing Device is shown below.

RS-232 Modem Sharing Device
(TL704A or TL708A)

About Black Box:

Black Box is a leading technology product solutions provider that helps customers build, manage, optimize, and secure their networks. The Black Box quality management system is ISO 9001:2008 certified, and the company has received numerous industry recognitions. Black Box provides its customers with free, 24/7 pre- and post-sales technical support. The Black Box catalog and Web site offer an extensive range of infrastructure products including Cabling, Cabinets & Racks, Data Center Cooling Solutions, Power & Surge Protection, and Environmental Monitoring.