

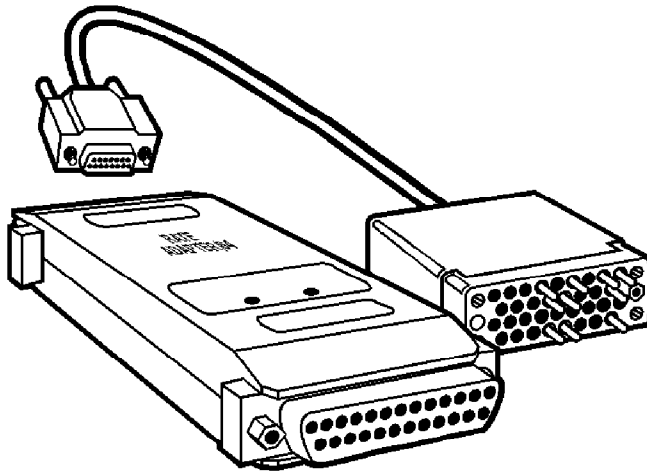


BLACK BOX®

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The Source for Connectivity™

Rate Adapter/64



*Step on the gas!
Convert the slower
data rates of your
RS-232 DTEs to the
speedy 64-Kbps rate of
ISDN or DDS.*

Choose the Rate Adapter/64 that fits your interface—V.35 or X.21. The V.35 model shown here includes a 6-inch V.35 adapter cable.

Key Features

- ▶ Transmits synchronous or asynchronous data.
- ▶ LEDs keep you up to date on power and signal synchronization.
- ▶ Choose between two high-speed interfaces—V.35 and X.21.
- ▶ Works in pairs.
- ▶ Modem control signals passed through end to end.

Overview

Rate Adapter/64

The world of telecommunication is getting faster. DDS and ISDN lines are pushing the new speed standard all the way up to 64 Kbps. How will you bridge the gap between the slower speeds of the equipment you already own and the 64-Kbps speed—without buying new equipment?

Choose the compact Rate Adapter/64. It converts your RS-232 DTE device's slower speeds to a full 64-Kbps rate! You can use the equipment you already own and still tap into a high-speed digital line.

The Rate Adapter/64 lets you send asynchronous or synchronous data. Two LEDs indicate when the unit is powered on and when signal synchronization is lost.

You choose the model that matches your digital service—CCITT V.35 or X.21.

What is ISDN?

The Integrated Services Digital Network (ISDN) is a universal public digital network based on a new CCITT standard. It's now available only on a limited basis. Once it's fully implemented, ISDN will offer a variety of communications services to homes, businesses,

and industry, both domestically and internationally.

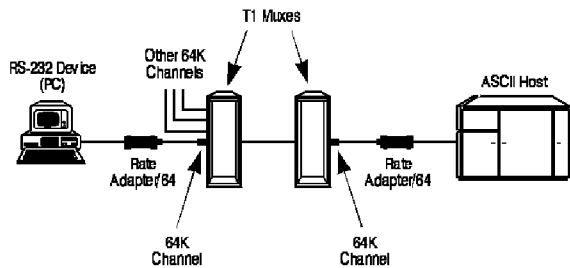
The concept is to put all forms of communications into one major digital network based upon an extensive overhaul of the current phone network. A limited set of multipurpose user network interfaces will carry the digital signals to and from user sites.

Typical Applications

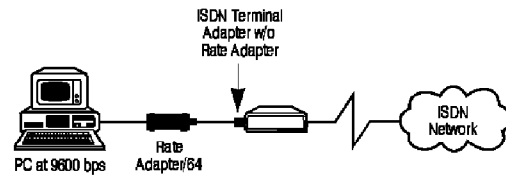
Make use of that idle 64K port on your high-speed mux. Plug in a Rate Adapter/64 between the port and an RS-232 device like a PC. Now that PC can transmit data at the high-speed rate of 64 Kbps.

Make your ISDN terminal adapter more flexible. Plug in a Rate Adapter/64 between the ISDN terminal adapter and your PC. Now the ISDN terminal adapter can handle the PC's slower speed of 9600 bps as well as the ISDN speed of 64 Kbps. See the diagrams on the back of this page for more information about both of these applications.

Connect a Rate Adapter/64 between a PC and an idle port on your high-speed mux. Now the PC can transmit and receive data at 64 Kbps.



Or plug in the Rate Adapter/64 between your ISDN Terminal Adapter and your PC. Now the ISDN Terminal Adapter can handle 9600 bps and 64 Kbps too.



Technically Speaking

- ◆ The RS-232 interface transmits asynchronous or synchronous data at speeds up to 19.2 Kbps.
- ◆ The X.21/V.35 interface sends only synchronous data at 64 Kbps.
- ◆ Rate Adapter/64 is interface powered. If you're unable to supply voltage to Pin 9, you can use a power supply with the unit.
- ◆ Rate Adapter/64 must be used in pairs.

Specifications

Rate Adapter/64

Speed — DTE side: 1200, 2400, 4800, 7200, 9600, 14,400, 19,200 bps; DCE side: 64 Kbps, in compliance with Bearer (B) Channel specifications of ISDN

Operation — DTE asynchronous or synchronous; DCE synchronous only

Interface — DTE side: RS-232-C/CCITT V.24; DCE side: CCITT V.35 (IC610A) or X.21 (IC612A)

Connectors — DTE side: DB25 female; DCE side: DB15 female (IC612A) or 34-pin M block female (IC610A)

Power — 7.5 V at 300 mA, supplied by an RS-232 DTE on Pin 9 or by a 120 V wallmount adapter

Size — 1.2"H x 2"W x 5.3"D (3 x 5.1 x 13.5 cm)

Weight — 0.2 lb. (0.1 kg)

The Complete Package

What you get when you order Rate Adapter/64

- ◆ The unit
- ◆ User's manual
- ◆ The V.35 model (IC610A) includes a 6-inch V.35 adapter cable.

Additional equipment you may need

- ◆ X.21 Cable
- ◆ V.35 Cable
- ◆ RS-232 Cable
- ◆ Power Supply (PS017)

For these and other components...

Call our expert Technical Support Staff for all your LAN needs. They'll help you find the best equipment for your application.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Rate Adapter/64	
V.35	IC610A
X.21	IC612A
120 V Power Supply	PS017