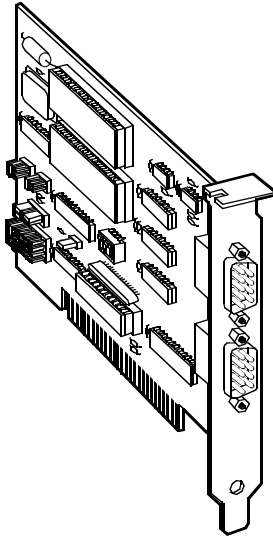


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### RS-232 HS ADAPTER



*Ensure high-speed connection to your high-speed modem with the RS-232 HS Adapter.*

#### Key Features

- ▶ **Handles data rates up to 460 Kbps.**
- ▶ **Provides a versatile interface for common RS-232 needs or for higher-speed applications.**
- ▶ **Compatible with DOS, Windows 3.1x, Windows 95, Windows NT—and more!**
- ▶ **Enhanced 32-byte buffer.**
- ▶ **Individually configurable address and interrupts for easy integration.**

Effectively eliminate bottlenecks within your PC with the fastest COM port in the industry. (STILL THE FASTEST?)

The RS-232 HS Adapter is a two-port high-speed serial I/O interface for ISA bus systems. It provides your PC with two asynchronous RS-232 serial ports, and uses either a 16650 UART (IC130C) or a 16850 UART (IC177C) to give you high speed.

The 16650 opens an enhanced 32-byte buffer so your PC's processor can service twice the normal amount of data going in and out of your computer. That means a greater throughput from your PC to the ISDN Terminal Adapter or high-speed modem. With enhanced line drivers and receivers, your data rates can soar to 460 Kbps. The 16850 provides a 128-byte buffer.

Individually configurable addresses (COM1 through COM4) and nine interrupt selections provide the versatility to satisfy both your common RS-232 and higher-speed applications. And the Card supports IRQs 2-5, 7, 10, 11, 12, and 15.

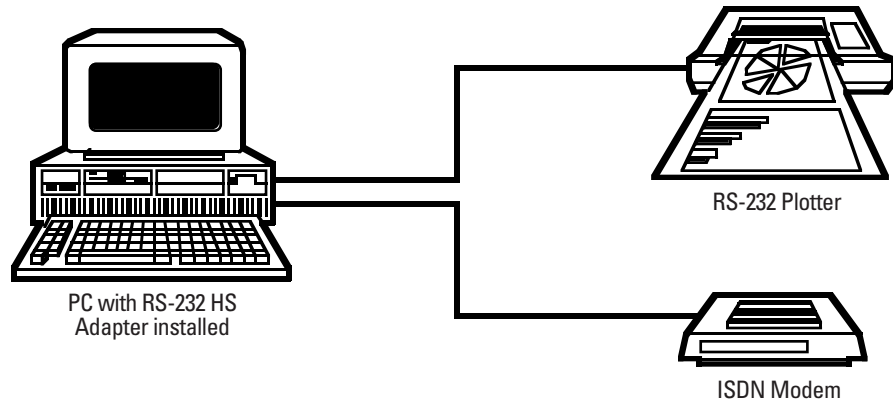
The Adapter uses full 16-bit I/O address decoding to eliminate Windows video-adapter conflicts. And multiple clocking modes ensure compatibility with existing software packages.

Two diagnostic diskettes are included with your RS-232 HS Adapter. If you're not sure whether the Adapter is configured correctly, the diagnostic program, SSD, will tell you.

The RS-232 HS Adapter is compatible with DOS, Windows 3.1x, Windows 95/98, Windows NT, Windows 2000, and many other operating systems.

Add two asynchronous serial ports to your PC with the RS-232 HS Adapter. The Adapter can be configured as COM1 through COM4 to provide an RS-232 interface for a modem, mouse, or plotter, as well as a higher-speed interface for ISDN applications or V.34 modems.

# Connect an RS-232 plotter and an ISDN modem to your PC via the RS-232 HS Adapter.



## Typical Application (see diagram above)

Add two asynchronous serial ports to your PC with the RS-232 HS Adapter. The Adapter can be configured as COM1 through COM4 to provide an RS-232 interface for a modem, mouse, or plotter, as well as a higher-speed interface for ISDN applications or V.34 modems.

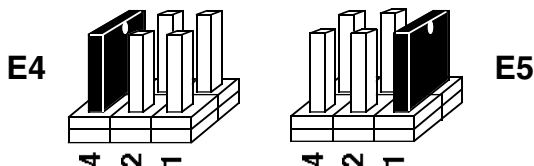
## Technically Speaking

The RS-232 HS Adapter has a jumper that lets you select clocking modes with much higher data rates than RS-232.

The Adapter uses a unique clocking option that allows the end user to select from "divide by 4," "divide by 2," and "divide by 1" clocking modes. With these options, you can double or quadruple the clocking rates that the Adapter uses. For example, for common rates used in RS-232 applications, such as 2400 or 4800, up to 115,200 bps, you would set

the jumper in the "divide by 4" mode. To double these rates up to a maximum of 230.4 Kbps, place the jumper in the "divide by 2" position. And to quadruple these rates for high-speed (up to 460 Kbps) applications such as ISDN or digital links, place the jumper in the "divide by 1" position.

In the diagram below, Port 1 (E4) is set to support an RS-232 application, and Port 2 (E5) is set to support a high-speed application.



## Specifications

**Communication Chip:** IC130C: 16650 UART; IC177C: 16850 UART

**Max. Data Rate:** 460 Kbps

**Connectors:** (2) DB9 male, (1) PC-card edge, 16-bit

**Diagnostics:** (2) 3.5-inch asynchronous utility disks

**Indicators:** None

**Number of Ports:** (2) RS-232

**Manufacturing:** IPC 610-A Class-III standards are adhered to with a 0.1 visual AQL and 100% functional testing. Boards are 100% electrically tested. Printed circuit boards are solder mask over bare copper or solder mask over tin nickel.

**Mean Time Between Failures:** >150,000 hours

**Operating Temperature:** 0 to 50 °C

**Storage Temperature:** -20 to +70 °C

**Relative Humidity:** 10 to 90%, noncondensing

**Power Consumption:** +12 VDC @ 50 mA, -12 VDC @ 50 mA, +5 VDC @ 195 mA

**Size:** 8.9 x 13.7 cm

## Ordering Information

ITEM	CODE
RS-232 HS Adapters	
16650 UART.....	IC130C
16850 UART.....	IC177C