



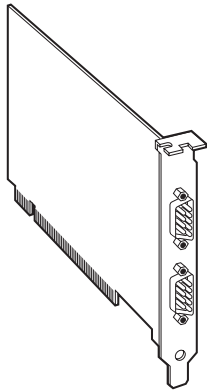
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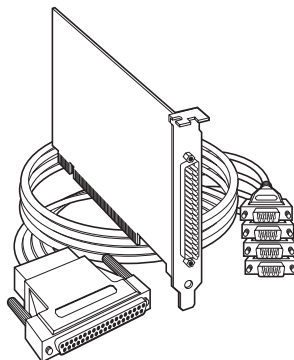
NETWORK SERVICES

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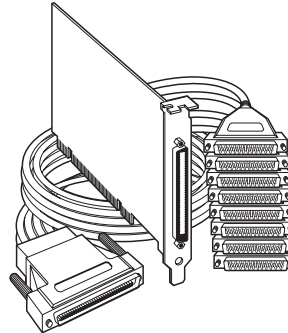
SERIAL HOST ADAPTERS PCI



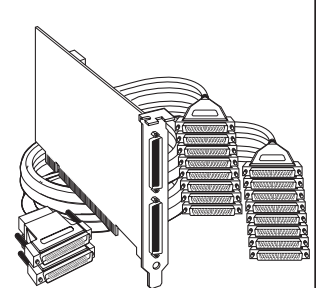
IC133C-R2 (16550 UARTs),
IC140C-R2 (16650 UARTs),
IC143C-R2 (16750 UARTs),
IC187C (16850 UARTs)



IC141C-R2 (16550 UARTs),
IC189C (16850 UARTs)



IC142C (16554 UARTs),
IC190C-R2 (16854 UARTs)



IC1600C (16854 UARTs)

Speedy UARTs help you get the most out of your PCI bus.

Key Features

- ▶ **Choose from two, four, eight, or sixteen PCI bus links.**
- ▶ **High-speed UARTs mean your CPU processes data faster.**
- ▶ **Supports all PCI interrupts, eliminating integration problems.**
- ▶ **Get standard data rates, or quad data rates up to 460 kbps.**
- ▶ **Drivers for all Windows operating systems are included.**
- ▶ **Models available for RS-232 or RS-422/485.**

Without sacrificing your PC's efficiency and speed, add two, four, eight, or sixteen PCI bus links for communication servers, point-of-sale (POS) systems, and other data-collection devices. Models are available for two, eight, or sixteen RS-232 ports, or for two or four RS-422/485 ports. Each card has two or more UARTs (Universal Asynchronous Receiver/Transmitters), which are integrated circuits that convert bytes from the computer bus into serial bits for transmission.

Choose from four 2-port models: RS-232/422/485 with 16550 UARTs and a 16-byte first-in-first-out (FIFO) buffer, RS-232 with 16650 UARTs and a 32-byte FIFO, RS-232 with 16750 UARTs and a 64-byte FIFO, or RS-232/422/485 with 16850 UARTs and a 128-byte FIFO.

For 4-port RS-422/485 applications choose the IC141C-R2 or IC189C.

The IC141C-R2 uses 16550 UARTs, and has a 16-byte FIFO. It supports sustained speeds of up to 460 kbps.

The IC189C uses 16850 UARTs and has a 128-byte FIFO.

To connect more RS-232 devices, select from two 8-port models including one with two 16554 UARTs and a 16-byte FIFO or two 16854 UARTs and a 128-byte FIFO. The high-speed 16854 UARTs interrupt your CPU less often. And when the CPU is interrupted, it services larger blocks of data.

The 16-Port model features four 16854 UARTs and a 128-byte FIFO.

The adapters also support standard data rates and quad data rates up to 460 kbps.

The RS-232 models support distances between devices of up to 50 ft. (15.2 m).

The RS-422/485 models support distances of up to 4000 feet (1219.2 m). Plus, these adapters enable the RS-485 line driver automatically via an RS-485 auto-enable circuit. Or choose the setting to suit your application: auto RS-485 enable, RTS enable, or always enabled.

Since the adapters enable use of PCI bus slots, you're not limited to using ISA slots only. Drivers are included for all Windows[®] operating systems.

Integration problems are a thing of the past with the adapters, since they support all PCI interrupts, giving you more IRQs to choose from when installing.

Technically Speaking

All the UARTs in the Serial Host Adapters PCI are buffered, so the CPU is not constantly interrupted to process data.

About the 16550 UART

Used in the IC133C-R2 and IC141C-R2, the 16550 UART incorporates a 16-byte FIFO (First-In-First-Out) buffer. It can support sustained data rates up to 115.2 kbps or bursts of data up to 460.8 kbps.

About the 16650 UART

Used in the IC140C-R2, the 16650 UART features a 32-byte FIFO buffer and can handle sustained data rates up to 460.8 kbps.

About the 16554 UART

Used in the IC142C, two 16554 UARTs contain four 16550 UARTs, each with a 16-byte FIFO buffer.

About the 16750 UART

Used in the IC143C-R2, the 16750 has a 64-byte FIFO buffer. It also features sustained baud rates of 460.8 kbps, but delivers better performance because of its larger buffer.

About the 16850 UART

Used in the IC187C and IC189C, the 16850 UART has a 128-byte FIFO buffer for each port.

About the 16854 UART

Used in the IC190C-R2 and IC1600C, the two 16854 UARTs contain four 16850 UARTs, each with a 128-byte FIFO buffer.

Specifications

Cable Length: 36" (91.4 cm)
(IC141C-R2, IC142C, IC189C, IC190C-R2, and IC1600C only)

Communication Chips:
IC133C-R2, IC141C-R2: 16550 UART;
IC142C: 16554 UART;
IC140C-R2: 16650 UART;
IC143C-R2: 16750 UART;
IC187C, IC189C: 16850 UART;
IC190C-R2, IC1600C: 16854 UART

Distance (Maximum):
IC140C-R2, IC142C, IC143C-R2, IC190C-R2, IC1600C: 50 ft. (15.2 m);
IC133C-R2, IC187C, IC141C-R2, IC189C: 4000 ft. (1219.2 m)

Operation: IC140C-R2, IC142C, IC143C-R2, IC190C-R2, IC1600C: RS-232;
IC133C-R2, IC187C; RS-232/422/485;
IC141C-R2, IC189C: RS-422/485

Data Rate (Maximum): 460.8 kbps

Protocol: Asynchronous

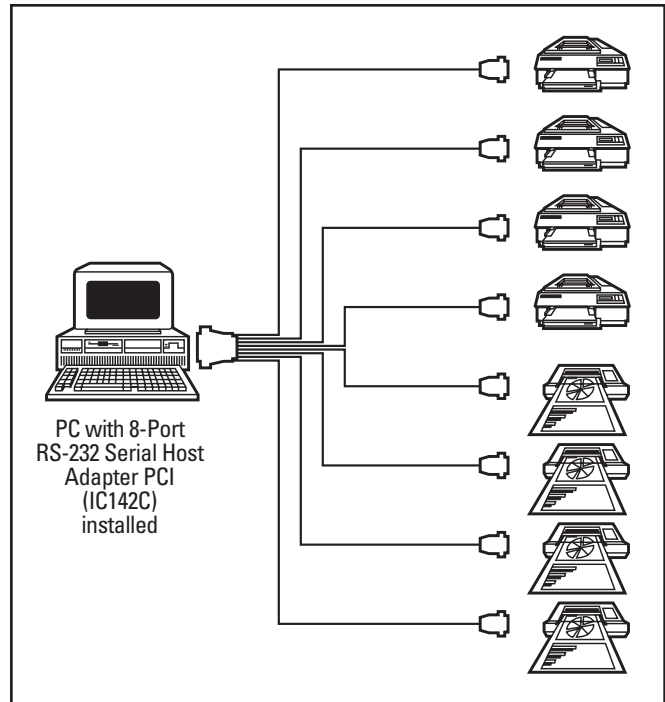
Connectors: IC133C-R2, IC140C-R2, IC143C-R2, IC187C: (2) DB9 M; IC141C-R2, IC189C: (1) DB37 M on card, (1) DB37 F and (4) DB9 M on included octopus cable; IC142C: (1) DB78 M on card, (1) DB78 F and (8) DB25 M on included octopus cable; IC190C-R2: (1) DB68 F on card, (1) DB68 M and (8) DB25 M on included octopus cable
IC1600C: (2) VHD 68-pin micro F on card, (1) VHD 68-pin micro M and (8) DB25 M on each of (2) included octopus cables

Temperature: Operating: 32 to 122°F (0 to 50°C);
Storage: -4 to +158°F (-20 to +70°C)

Humidity: 10 to 90% noncondensing

Power: From the interface:
+5 V @ 250 mA; +12 V @ 60 mA;
-12 V @ 100 mA

Size: Half-card



Add up to eight serial ports to your host computer with the Serial Host Adapter PCI (IC142C).

What the Package Includes

- (1) Serial Host Adapter PCI
- (1) Octopus cable with connectors that attach directly to the adapter (4- and 8-port adapters only)
- (2) Octopus cables with connectors that attach directly to the adapter (16-port adapter only)
- (1) CD-ROM containing software drivers for all Windows operating systems and a users' manual

Ordering Information

ITEM	CODE
Serial Host Adapters PCI	
2-Port RS-232/RS-422/RS-485	
16550 UART	IC133C-R2
16850 UART	IC187C
2-Port RS-232	
16650 UART	IC140C-R2
16750 UART	IC143C-R2
4-Port RS-422/485	
16550 UART	IC141C-R2
16850 UART	IC189C
8-Port RS-232	
16554 UART	IC142C
16854 UART	IC190C-R2
16-Port RS-232	
16854 UART	IC1600C

Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.