

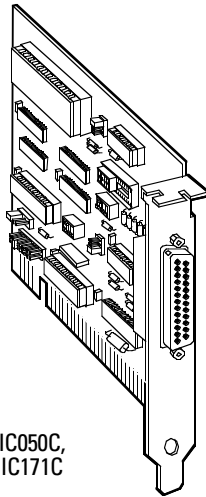


BLACK BOX[®]

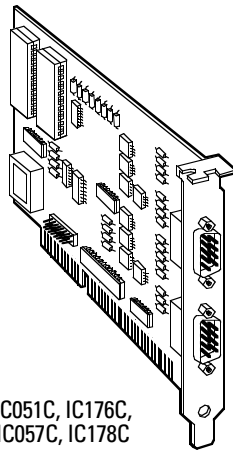
NETWORK SERVICES

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Black Box Corporation.

RS-422/485 SERIAL INTERFACE PLUS



IC050C,
IC171C



IC051C, IC176C,
IC057C, IC178C

Integrate your industrial RS-422/485 applications and your PC.

Key Features

- ▶ Connect up to 32 peripherals per port under DOS, OS/2[®], or Windows[®] in your 485 network up to 4000 feet (1219.2 m) away.
- ▶ Supports speeds up to 115.2 or 460.8 kbps. Can control the RS-485 driver-enable signal automatically.
- ▶ COM-1 through COM-4 addressable.
- ▶ Choose from as many as 11 IRQ selections.
- ▶ Models available with 16550 or 16950 UARTs.

The RS-422/485 Serial Interface Plus is Windows compatible without the need for special software or drivers.

Today's mainstream operating systems, such as Windows 3.x/Windows 95, 98 and Windows NT[™], and Windows 2000, do not give applications direct control over hardware devices. Applications must make calls to a driver substructure. Therefore, features not supported by existing drivers, such as RS-485, are very difficult to implement because lower-level I/O handling is required.

In operating systems that don't have a standard driver to support RS-485 communications, you need to provide the driver development. What's worse, once a driver is developed, it must be maintained to support subsequent releases of the operating system.

However, the RS-422/485 Serial Interface Plus automatically handles low-level RS-485 driver maintenance via hardware. Therefore, initial development can be targeted for RS-232, debugged, tested, and then implemented as RS-485. The RS-422/485 Serial Interface Plus was designed for simple integration of RS-485 networks—with little or no programming changes—within Windows, Windows NT, and other protected-mode operating systems.

The RS-422/485 Serial

Interface Plus comes in 1- and 2-Port models. A 2-Port model with Optical Isolation is also available. Optical Isolation eliminates the effects of spikes, surges, and ground differences to protect communications devices connected to the PC.

Choose from 16550 or 16850 UARTs. Cards with the 16550 UART feature a 16-byte FIFO and run at speeds of up to 115.2 kbps. Cards with the 16850 UART have a 128-byte FIFO and operate at sustained speeds of up to 460.8 kbps.

Specifications

Buffer: IC050C, IC051C, IC057C: 16-byte FIFO; IC171C, IC176C, IC178C: 128-byte FIFO
Speed: IC050C, IC051C, IC057C: Up to 115.2 kbps; IC171C, IC176C, IC178C : 460.8 kbps (sustained)
Communication Chip: IC050C, IC051C, IC057C: 16550 UART; IC171C, IC176C, IC178C: 16950 UART
Connectors: IC050C, IC171C: (1) DB25 male; IC051C, IC057C, IC176C, IC178C: (2) DB9 male
Maximum Distance: 1219.2 m
Operation: 2- or 4-wire
Optical Isolation: IC057C, IC178C: 500 VDC
Protocol: Async
Power: From the PC bus
Size: Half-card

Ordering Information

ITEM	CODE
PRODUCT NAME	ORDER CODE
RS-422/485 Serial Interface Plus	
1-Port	
16550 UART	IC050C
16950 UART	IC171C
2-Port	
16550 UART	IC051C
16950 UART	IC176C
2-Port (with Optical Isolation)	
16550 UART	IC057C
16950 UART	IC178C
<u>To connect your RS-422/485 Serial Interface Plus, you may also need...</u>	
RS-530 Data Cable	EVN530
Modular Thumbscrew Adapter Kits	
<i>For IC050C:</i>	
DB25 female±RJ-45 Female (8-Wire).....	FA771
<i>For IC051C:</i>	