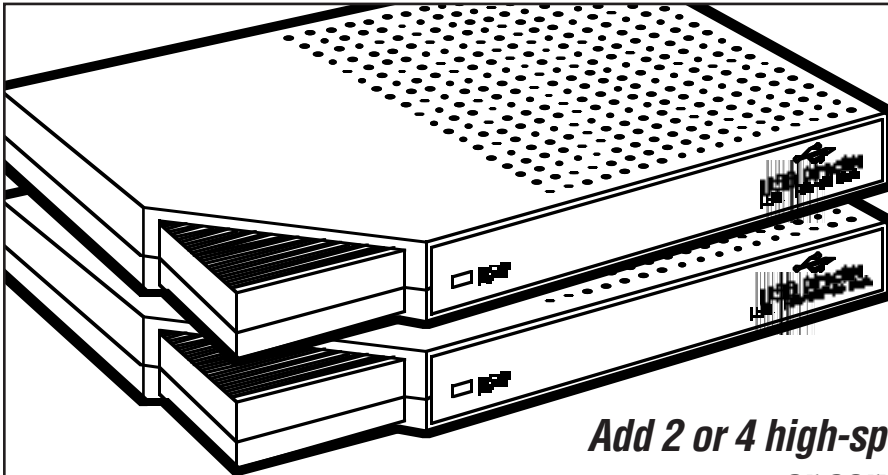


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BLACK BOX NETWORK SERVICES

USB DIRECTOR HUBS



Add 2 or 4 high-speed serial ports to your PC or server in seconds!

Key Features

- ▶ **Full compliance with USB specifications.**
- ▶ **No external power supply necessary; the hub derives its power from the USB port.**
- ▶ **Plug-and-play installation.**
- ▶ **No additional IRQs required.**
- ▶ **Externally attach new devices—no need to open the PC's chassis!**
- ▶ **Auto-detects speeds and connections of devices.**

Attach a USB Director Hub to a PC or server and give yourself two extra high-speed RS-422/485 ports or four RS-422 ports. These stackable expansion modules connect to the server or PC via a Type A Universal Serial Bus (USB) port.

These Hubs have the scalability and flexibility to quickly adapt to new technologies. For instance, multiple USB Director Hubs can be added to a single USB interface. That kind of easy and convenient connectivity means that your network can grow with your requirements!

To get the extra 2 or 4 ports, just plug the Hub in. You never need to open the chassis or power down your PC or server to install the Hub. Install the included configuration software, and you're done—no card lots, IRQ addresses, DMA channels, or device addresses to deal with.

And power is derived from the USB port, so there are no batteries or power adapters to deal with, either.

What the Package Includes

IC160A or IC161A

- (1) USB Director Hub.
- (1) 3-ft. USB cable.
- (1) Set of two stack legs with instruction sheet.
- (3) Software diskettes:
 - (1) Windows 95 drivers,

- (1) Windows 98 drivers,
- (1) USB support diskette
- A users' manual.

Specifications

System Requirements — Pentium-class CPU; 16-MB RAM; (1) unused USB port; USB products can only be used with a computer that has Windows 98 or Windows 95 version 4.00.950b with the USB supplement (QFE 1214), also known as OSR 2.1

Maximum Distance — .46 m (15 ft)

Indicators — (5): (1) Power, (4) Port ID

Connectors — IC160A: (2) DB9 male, (1) Type B USB; IC161A: (4) DB9 male, (1) Type B USB

Operating Temperature — 0 to 40°C

Humidity Tolerance — 5 to 95%

Power — Derived from the USB port

Size — 14.2H x 7.6W x 2.5D cm (5.6"H x 3"W x 1"D)

Weight — 1.1 kg

Technically Speaking

Universal Serial Bus (USB)

Universal Serial Bus is a royalty-free bus specification developed by leading manufacturers in the PC and telephony industries to support plug-and-play peripheral connections. USB offers increased bandwidth, isochronous and asynchronous data transfers, and lower costs than conventional I/O ports.

The USB Bus is a daisychain consisting of USB hubs and peripherals less than 5 meters apart. The USB daisychain can support up to 127 devices. Instead

of opening up the CPU to insert new boards, you make all connections outside the case to the USB ports.

Because USB connections are hot-swappable, you can attach or remove peripherals without shutting down your computer. Also, USB hubs have additional ports that enable you to daisychain multiple devices together. More than 450 leading manufacturers of PCs, peripherals, and software support USB.

Ordering Information

ITEM	CODE
USB Director Hubs	
USB-RS422/RS485 2-Port.....	IC160A
USB-RS422 4-Port.....	IC161A

You might also want to order:

USB Cable, 0.9-m (3-ft.).....	USB01-0003
USB Data-Line Protectors	
Series A.....	40314
Series B	40315