BLACK BOX

USB Hubs

Use your PC's USB bus to connect serial peripherals. We have hubs for RS-232 applications!

TECH SPECS

Communications Chips:
(2) High-speed USB-to-serial interface (128-byte FIFO transmit, 384-byte FIFO receive)

Distance (Maximum) : RS-232: 50 ft. (15.2 m)

Compliance: UL® 94V0; FCC Class B, Part 15; CA classe B, CE

Standards Supported: USB Version 1.1

Operating Systems Supported: Windows®

Distance (Maximum) — RS-232: 50 ft. (15.2 m)

Speed (Maximum) — RS-232: 460.8 kbps

MTBF: >150,000 hours

Connectors — Serial: (4)or (8) DB9 M (DTE);

USB: (1) Type B F

Temperature Tolerance:
Operating: 32 to 158˚F (0 to 70˚C);
Storage: -4 to +158˚F (-20 to +70˚C)

Relative Humidity: 10 to 90%, noncondensing

Power:
From the USB bus (as long as the device is connected directly to a powered PC or hub)

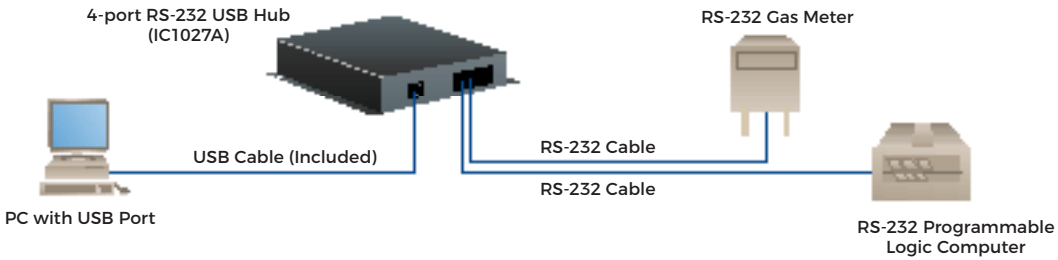
Size :
2.25"H x 8.5"W x 6"D (5.7 x 21.6 x 15.2 cm)

Item	Code
USB Hubs	
RS-232	
4-Port	IC1027A
8-Port	IC1023A

For appropriate cables for your application, contact support.

EN_NET_Datasheet_IC1023A_IC1027A_Rev1_2308.pdf

Use a USB Hub in an industrial monitoring application.



OVERVIEW

USB connections have replaced serial connections as the preferred method of linking peripheral devices to computers. Why? Because USB offers increased bandwidth, lower costs than conventional I/O ports, and the ability to connect devices externally.

And wouldn't you prefer to use an external connection to connect your serial peripherals instead of installing a PCI or PCI-e card in your system? BLACK BOX® USB Hubs enable you to do just that.

These hubs are available with four or eight ports for RS-232 communications.

No matter which model you choose, the USB Hubs enable non-USB serial peripherals to be connected to your PC's USB bus while preserving serial speeds (standard PC data rates of up to 921.6 kbps). These high-speed capabilities are the result of the hubs' two high-speed FIFO buffers—a 128-byte FIFO buffer for data transmission and a 384-byte FIFO buffer for data reception.

The hubs spare you from opening your computer case, and they don't require resources such as input/output (I/O) ports or IRQs. In addition, your system doesn't need to be USB, both in terms of hardware and operating system.

Just think of the possible applications. Instead of plugging factory automation devices into serial ports on a PC, you can attach them to a hub and, in turn, connect the hub to your PC's USB bus. Data rates continue to transfer at serial connection speeds through the externally attached serial devices.

The USB Hubs are ideal for connecting factory automation devices, such as data loggers and industrial machinery, or any device that depends on links that aren't affected by excessive noise or spikes in voltage.

You don't need much time to connect one of the hubs, either. These compact units connect to peripheral serial devices in external plug-and-play fashion. And they're hot-swappable—you don't have to turn off your PC to install one.

Setup is easy. LEDs indicate whether USB is enabled and if there's activity on any hub ports. Upon hub installation, you can begin the setup utility and use the included loopback plug to check communications between TD and RD.

When testing in loopback mode, a port LED flashes and the interface screen displays echoed data (in the form of a hex pattern and ASCII data strings) to verify the hub's readiness for use in your application.

What's included

- (1) USB Hub
- (1) 6' (1.8m) USB cable

FEATURES

» High-speed alternatives to installing serial boards.
» Support USB Version 1.1.
» Data rates up to 921.6 kbps.
» Plug-and-play, hot-swappable, autoconfiguring.
» Ideal for industrial applications.
» Include a 6-foot (1.8-m) USB cable.
» Compatible with Windows®