Remote Port USB 2.0→CAT5 Extender • USB 2.0→CAT5 4-Port Extender
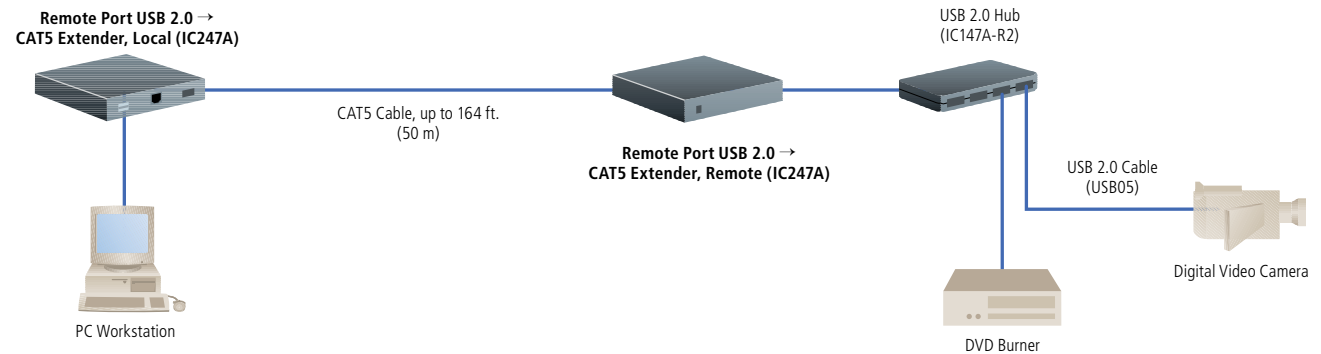
Connect to one or four USB 2.0 devices—and achieve 480-Mbps speeds over CAT5 UTP cable!

FEATURES

» Extend your range by 50 meters and supply power to USB devices over inexpensive CAT5 cabling!

» Connect to USB 2.0 devices such as CD/DVD burners, scanners, digital cameras, and more.

» Extend USB 2.0 and 1.1 devices in the same application.

» Compatible with Windows, Macintosh, and Sun operating systems.

» Deliver enough power to the remote unit to support most USB devices.

» Wallmount power adapters also included for local and remote units.

Extend USB 2.0 communications over inexpensive CAT5 copper cable!

Remote Port USB 2.0 →
CAT5 Extender, Local (IC247A)

USB 2.0 Hub
(IC147A-R2)

CAT5 Cable, up to 164 ft.
(50 m)

Remote Port USB 2.0 →
CAT5 Extender, Remote (IC247A)

USB 2.0 Cable
(USB05)

Digital Video Camera

PC Workstation

DVD Burner

OVERVIEW

Our Remote Port USB 2.0→CAT5 Extender (IC247A) enables you to extend USB 2.0 and 1.1 connections up to 50 meters (164 ft.) from your workstation over CAT5 UTP cable. That makes it great for extension applications using Hi-Speed USB 2.0 devices like CD/DVD burners, scanners, and digital cameras. In addition, it supports full-speed USB 1.1 devices like disk drives as well as low-speed 1.1 devices such as joysticks.

For flexibility, you can use the extender's local or remote unit to connect up to four standard USB hubs—in any order—in a single chain. The extender is truly plug-and-play and compatible with Windows®, Macintosh®, and Sun® operating systems.

Power is supplied to the local and remote units via wallmount adapters. USB devices attached to the remote unit receive 500 mA of power.

Connect up to four USB 2.0 and 1.1 devices up to 50 meters (164 ft.) with the USB 2.0→CAT5 4-Port Extender (IC248A).

You can also increase the number of devices by using standard USB hubs on either the local or remote unit.

Power is supplied to the local and remote units via 110-VAC wallmount adapters. A maximum of 4 x 500-mA power is available to USB devices connected to the remote unit.

TECH SPECS

Distance (Maximum) — 50 m (164 ft.) over CAT5 UTP
Operating Temperature — 39 to 104°F (4 to 40°C)
Standards — USB 2.0, USB 1.1
USB Device Support — Hi-Speed USB 2.0: 480 Mbps;
  Full-Speed USB 1.1: 12 Mbps;
  Low-Speed USB 1.1: 1.5 Mbps
CE Approval — Yes
Connectors — Local unit: (1) USB Type B F, (1) RJ-45;
  Remote unit: (1) or (4) USB Type A F, (1) RJ-45
Power — From the USB bus: Maximum (1) or (4) 500-mA power available
  to USB devices at remote unit;
  Also from (2) 110-VAC, 60-Hz adapters for local and remote units;
  International versions also available
Size — IC247A local and remote units: 1.4"H x 4.3"W x 3.4"D
  (3.6 x 10.9 x 8.6 cm) each;
  IC248A local unit: 1.4"H x 4.3"W x 3.4"D (3.6 x 10.9 x 8.6 cm);
  Remote unit: 1.5"H x 4.2"W x 4.5"D (3.8 x 10.7 x 11.4 cm)

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2 of 3

Technically Speaking

USB.

The Universal Serial Bus (USB) hardware (plug-and-play) standard makes connecting peripherals to your computer easy.

USB 1.1, introduced in 1995, is the original USB standard.

It has two data rates: 12 Mbps for devices such as disk drives that need high-speed throughput and 1.5 Mbps for devices such as joysticks that need much lower bandwidth.

In 2002, a newer specification, USB 2.0, or Hi-Speed USB 2.0, gained wide acceptance in the industry. This version is both forward- and backward-compatible with USB 1.1.

It increases the speed of the peripheral to PC connection from 12 Mbps to 480 Mbps, or 40 times faster than USB 1.1!

This increase in bandwidth enhances the use of external peripherals that require high throughput, such as CD/DVD burners, scanners, digital cameras, video equipment, and more. USB 2.0 supports demanding applications, such as

Web publishing, in which multiple high-speed devices run simultaneously. USB 2.0 also supports Windows XP through a Windows update.

An even newer USB standard, USB On-The-Go (OTG), is also in development. USB OTG enables devices other than a PC to act as a host. It enables portable equipment—such as PDAs, cell phones, digital cameras, and digital music players—to connect to each other without the need for a PC host.

USB 2.0 specifies three types of connectors: the A connect-or, the B connector, and the Mini B connector. A fourth type of connector, the Mini A (used for smaller peripherals such as mobile phones), was developed as part of the USB OTG specification.

IC248A

What's included

✦ (1) local unit
✦ (1) remote unit
✦ (2) 110-VAC power adapters
✦ (1) 2-m USB cable

Item	Code
Remote Port USB 2.0→CAT5 Extender	**IC247A**
USB 2.0→CAT5 4-Port Extender	**IC248A**

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

• You wait more than 30 minutes to get through to a vendor's tech support.
• The so-called "tech" can't help you or gives you the wrong answer.
• You don't have a purchase order number and the tech refuses to help you.
• It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

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3 of 3