

## ServSwitch DVI KVM Extenders

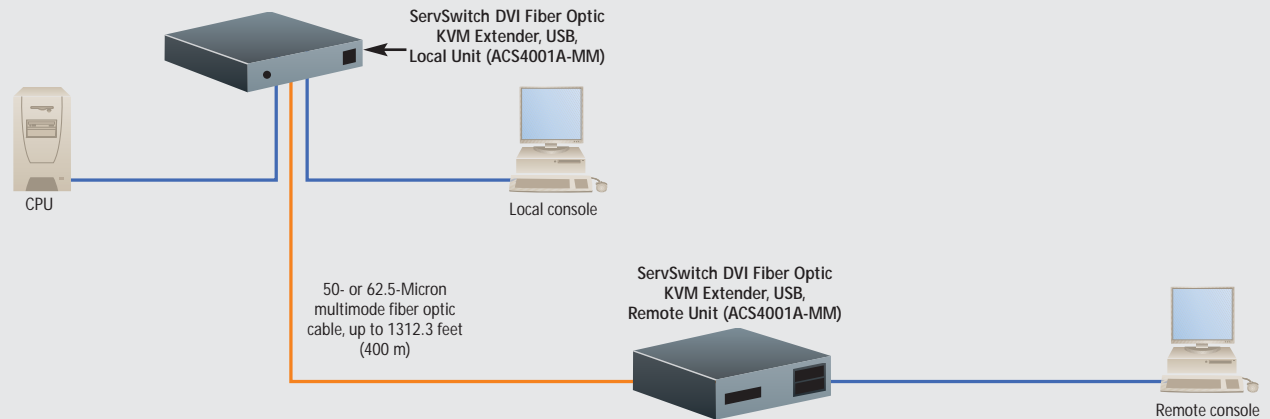


Single or dual DVI-D KVM extension for CATx, single-mode fiber, and multimode fiber!

## FEATURES

- Choose from models for PS/2 or USB keyboards and mice.
- CATx models enable you to extend keyboard, mouse, and DVI-D video signals up to 400 feet (121.9 m).
- Multimode fiber models enable you to extend keyboard, mouse, and DVI-D video signals at up to 1312.3 feet (400 m).
- Single-mode fiber models enable you to extend keyboard, mouse, and DVI-D video signals at up to 6.2 miles (10 km).
- Dual DVI models enable you to connect up to two DVI-D monitors to the computer and at the remote KVM site.
- Resolution up to 1600 x 1200.

*Extend the distance between a local USB console and CPU and a remote USB console up to 400 feet (121.9 m) over CATx cable.*



## OVERVIEW

Want more versatility out of your extension applications? Black Box has a line of DVI KVM extenders for both CATx and fiber optic cabling that blows the doors off the competition!

### ServSwitch DVI CATx KVM Extenders (ACS1009A, ACS2209A, ACS4001A, ACS4201A)

With ServSwitch™ DVI CATx KVM Extenders, you can send your keyboard, mouse, and DVI-D video signals at up to 400 feet (121.9 m) over CAT5, CAT5e, or CAT6 cable.

Choose from two models each for Single or Dual DVI. The ACS1009A and ACS2209A work with PS/2® keyboards and mice; the ACS4001A and ACS4201A work with USB keyboards and mice.

Connect a keyboard, mouse, and DVI-D monitor directly to the computer on the transmitting end of the link and a KVM console with a DVI-D monitor on the receiving end. This method of dual access enables you to use your computer at either location. If you think that's something, wait until you see what the Dual DVI models do!

The ACS2209A and ACS4201A are built for today's computers with dual video heads. Unlike the Single DVI models, the Dual DVI models enable you to connect up to two DVI-D monitors directly to the computer on the transmitting end of the link and two DVI-D monitors at the receiving KVM console.

Imagine what you can do with more monitors connected to your computer. You can put a different application on each monitor to eliminate tedious switching between applications. Or if you have an application that uses lots of small windows, you can expand it across both monitors for more work space.

### ServSwitch DVI Fiber Optic KVM Extenders (ACS1009A-MM/-SM, ACS2209A-MM/-SM, ACS4001A-MM/-SM, ACS4201A-MM/-SM)

ServSwitch DVI Fiber Optic KVM Extenders enable you to send keyboard, mouse, and DVI-D video signals at up to 1312.3 feet (400 m) over multimode fiber or at up to 6.2 miles (10 km) over single-mode fiber. Four models each are available for Single DVI and Dual DVI.

Single DVI models work with PS/2 keyboards and mice (ACS1009A-MM, ACS1009A-SM) or USB keyboards and mice (ACS4001A-MM, ACS4001A-SM) over fiber. Connect a keyboard, mouse, and DVI-D monitor directly to the computer on the transmitting end of the link and a KVM console with a DVI-D monitor on the receiving end. This method of dual access enables you to use your computer at either location.

Dual DVI models for PS/2 (ACS2209A-MM, ACS2209A-SM) and USB (ACS4201A-MM, ACS4201A-SM) are built for computers with dual video heads. Unlike the Single DVI models, Dual DVI models enable you to connect up to two DVI-D monitors directly to the computer on the transmitting end of the fiber link and two DVI-D monitors at the receiving KVM console.

The Dual DVI models feature the same versatility as their CATx versions. With more monitors connected to your computer, the fiber extenders enable you to put a different application on each monitor. And if you have an application that uses lots of small windows, you can expand it across both monitors at the local or remote console.

## TECH SPECS

### Distance —

ACS1009A, ACS2209A, ACS4001A, ACS4201A:  
24 AWG: 400 ft. (121.9 m);  
26 or 28 AWG: 200 ft. (61 m);  
ACS1009A-MM, ACS2209A-MM, ACS4001A-MM, ACS4201A-MM:  
1312.3 ft. (400 m);  
ACS1009A-SM, ACS2209A-SM, ACS4001A-SM, ACS4201A-SM:  
6.2 mi. (10 km)

**Resolution (Maximum)** — 1600 x 1200 @ 60 Hz

**CE Approval** — Yes

### Connectors —

ACS1009A:  
Local unit: Keyboard and mouse: (1) 6-pin mini-DIN F;  
Monitor: (2) DVI-D F; Interconnect: (1) RJ-45;  
Remote unit: Keyboard and mouse: (2) 6-pin mini-DIN F;  
Monitor: (1) DVI-D F; Interconnect: (1) RJ-45;

ACS2209A:  
Local unit: Keyboard and mouse: (1) 6-pin mini-DIN F;  
Monitor: (4) DVI-D F; Interconnect: (2) RJ-45;  
Remote unit: Keyboard and mouse: (2) 6-pin mini-DIN F;  
Monitor: (2) DVI-D F; Interconnect: (2) RJ-45;

ACS4001A:  
Local unit: Keyboard and mouse: (1) USB Type B F;  
Monitor: (2) DVI-D F; Interconnect: (1) RJ-45;  
Remote unit: Keyboard and mouse: (2) USB Type A F;  
Monitor: (1) DVI-D F; Interconnect: (1) RJ-45;

ACS4201A:  
Local unit: Keyboard and mouse: (1) USB Type B F;  
Monitor: (4) DVI-D F; Interconnect: (2) RJ-45;  
Remote unit: Keyboard and mouse: (2) USB Type A F;  
Monitor: (2) DVI-D F; Interconnect: (2) RJ-45;

ACS1009A-MM, ACS1009A-SM:  
Local unit: Keyboard and mouse: (1) 6-pin mini-DIN F;  
Monitor: (2) DVI-D F; Interconnect: (1) pair of LC;  
Remote unit: Keyboard and mouse: (2) 6-pin mini-DIN F;  
Monitor: (1) DVI-D F; Interconnect: (1) pair of LC;

ACS2209A-MM, ACS2209A-SM:  
Local unit: Keyboard and mouse: (1) 6-pin mini-DIN F;  
Monitor: (4) DVI-D F; Interconnect: (2) pair of LC;  
Remote unit: Keyboard and mouse: (2) 6-pin mini-DIN F;  
Monitor: (2) DVI-D F; Interconnect: (2) pair of LC;

ACS4001A-MM, ACS4001A-SM:  
Local unit: Keyboard and mouse: (1) USB Type B F;  
Monitor: (2) DVI-D F; Interconnect: (1) pair of LC;  
Remote unit: Keyboard and mouse: (2) USB Type A F;  
Monitor: (1) DVI-D F; Interconnect: (1) pair of LC;

ACS4201A-MM, ACS4201A-SM:  
Local unit: Keyboard and mouse: (1) USB Type B F;  
Monitor: (4) DVI-D F; Interconnect: (2) pair of LC;  
Remote unit: Keyboard and mouse: (2) USB Type A F;  
Monitor: (4) DVI-D F; Interconnect: (2) pair of LC

**Operating Environment** — Temperature: 41 to 113°F (5 to 45°C);

Humidity: Up to 80% noncondensing

**Power** — 90–240 VAC, 47–63 Hz, autosensing, external, with IEC 320 connector and cord

**Size** — Single DVI local and remote units:

1.1" H x 4" W x 5.6" D (2.8 x 10.2 x 14.2 cm);

Dual DVI local and remote units:

1.6" H x 4" W x 5.6" D (4.1 x 10.2 x 14.2 cm)

**Weight** — Local and remote units: 1.3 lb. (0.6 kg) each



ACS4001A

## 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.

Item	Code
ServSwitch DVI CATx KVM Extenders for PS/2 Keyboards and Mice	
Single DVI	ACS1009A
Dual DVI	ACS2209A
for USB Keyboards and Mice	
Single DVI	ACS4001A
Dual DVI	ACS4201A
ServSwitch DVI Fiber Optic KVM Extenders for PS/2 Keyboards and Mice	
Single DVI, Multimode	ACS1009A-MM
Single DVI, Single-Mode	ACS1009A-SM
Dual DVI, Multimode	ACS2209A-MM
Dual DVI, Single-Mode	ACS2209A-SM
for USB Keyboards and Mice	
Single DVI, Multimode	ACS4001A-MM
Single DVI, Single-Mode	ACS4001A-SM
Dual DVI, Multimode	ACS4201A-MM
Dual DVI, Single-Mode	ACS4201A-SM