

DATA SHEET

ACS2009A-R2, ACS2209A-R2, ACS4001A-R2, ACS4201A-R2, ACS4001A-R2-SM, ACS4201A-R2-SM

SERVSWITCH DVI KVM EXTENDERS

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

SERVSWITCH DVI KVM EXTENDERS

INTRODUCTION

ServSwitch DVI CATx KVM Extenders (ACS2009A-R2, ACS2209A-R2, ACS4001A-R2, ACS4201A-R2)

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

Choose from two models each for Single or Dual DVI.

The ACS2009A-R2 and ACS2209A-R2 work with PS/2® keyboards and mice; the ACS4001A-R2 and ACS4201A-R2 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.

The ACS2209A-R2 and ACS4201A-R2 are built for 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 (ACS4001A-R2-SM, ACS4201A-R2-SM)

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

One model each is available for Single DVI and Dual DVI.

The single DVI model works with USB keyboards and mice (ACS4001A-R2-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.

The Dual DVI model for USB (ACS4201A-R2-SM) is built for computers with dual video heads. Unlike the Single DVI model, the Dual DVI model enables 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 fiber model features the same versatility as its 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.

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).
- SINGLE-MODE FIBER MODELS ENABLE YOU TO EXTEND KEYBOARD, MOUSE, AND DVI-D VIDEO SIGNALS UP TO 6.2 MILES (10 KM). THESE FIBER MODELS CAN BE INDIFFERENTLY DEPLOYED OVER MULTIMODE OR SINGLE-MODE OPTICAL FIBER.
- DUAL DVI MODELS ENABLE YOU TO CONNECT UP TO TWO DVI-D MONITORS TO THE COMPUTER AND AT THE REMOTE KVM SITE.
- SUPPORT RESOLUTION UP TO 1920 X 1200.

COMPARISON CHART

SPECIFICATION COMPARISON CHART						
	ACS2009A-R2	ACS2209A-R2	ACS4001A-R2	ACS4201A-R2	ACS4001A-R2-SM	ACS4201A-R2-SM
CABLE TYPE	CATx	CATx	CATx	CATx	SM or MM fiber	SM or MM fiber
MAXIMUM DISTANCE	24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)		24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)		MM: 1312.3 ft. (400 m) SM: 6.2 mi (10 km)	
RESOLUTION	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz
MONITORS	Single-Head	Dual-Head	Single-Head	Dual-Head	Single-Head	Dual-Head
KEYBOARD/MOUSE	PS/2	PS/2	USB	USB	USB	USB
INTERCONNECT	RJ-45	RJ-45	RJ-45	RJ-45	LC	LC

NOTE: Single-mode models can be indifferently deployed over multimode or single-mode optical fiber.



SPECIFICATIONS

SINGLE-DVI CATX KVM EXTENDER FOR PS/2 K/M (ACS2009A-R2)

FRONT AND BACK VIEWS



ACS2009A-R2 Local and Remote Units

WHAT'S INCLUDED WITH THE ACS2009A-R2

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

SINGLE DVI CATX KVM EXTENDER FOR PS/2 K/M (ACS2009A-R2)	
DISTANCE	24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	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
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	Each unit: 1.1"H x 4"W x 5.6"D (2.8 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)

SPECIFICATIONS

DUAL-DVI CATX KVM EXTENDER FOR PS/2 K/M (ACS2209A-R2)

FRONT VIEW



ACS2209A-R2 Local and Remote Units

BACK VIEW



ACS2209A-R2 Local and Remote Units

WHAT'S INCLUDED WITH THE ACS2209A-R2

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

DUAL DVI CATX KVM EXTENDER FOR PS/2 K/M (ACS2209A-R2)	
DISTANCE	24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	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
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	Each unit: 1.6"H x 4"W x 5.6"D (4.1 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)



SPECIFICATIONS

SINGLE-DVI CATX KVM EXTENDER FOR USB K/M (ACS4001A-R2)

FRONT VIEW



ACS4001A-R2
Local Unit

BACK VIEW



ACS4001A-R2
Local Unit

FRONT VIEW



ACS4001A-R2
Remote Unit

BACK VIEW



ACS4001A-R2
Remote Unit

WHAT'S INCLUDED WITH THE ACS4001A-R2

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

SINGLE DVI CATX KVM EXTENDER FOR USB K/M (ACS4001A-R2)

DISTANCE	24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	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
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	Each unit: 1.1"H x 4"W x 5.6"D (2.8 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)

SPECIFICATIONS

DUAL-DVI CATX KVM EXTENDER FOR USB K/M (ACS4201A-R2)

FRONT VIEW



ACS4201A-R2 Local and Remote Units

BACK VIEW



ACS4201A-R2 Local and Remote Units

WHAT'S INCLUDED WITH THE ACS4201A-R2

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

DUAL DVI CATX KVM EXTENDER FOR USB K/M (ACS4201A-R2)	
DISTANCE	24 AWG: 400 ft. (121.9 m), 26 or 28 AWG: 200 ft. (61 m)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	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
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	Each unit: 1.6"H x 4"W x 5.6"D (4.1 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)

SPECIFICATIONS

SINGLE-DVI FIBER KVM EXTENDER FOR USB K/M (ACS4001A-R2-SM)

FRONT VIEW



ACS4001A-R2-SM Local and Remote Units

BACK VIEW



ACS4001A-R2-SM Local and Remote Units

WHAT'S INCLUDED WITH THE ACS4001A-R2-SM

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

SINGLE DVI FIBER KVM EXTENDER FOR USB K/M (ACS4001A-R2-SM)

DISTANCE	6.2 mi. (10 km)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	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;
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	Each unit: 1.1"H x 4"W x 5.6"D (2.8 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)

SPECIFICATIONS

DUAL-DVI FIBER KVM EXTENDER FOR USB K/M (ACS4201A-R2-SM)

FRONT VIEW



ACS4201A-R2-SM Local and Remote Units

BACK VIEW



ACS4201A-R2-SM Local and Remote Units

WHAT'S INCLUDED WITH THE ACS4201A-R2-SM

- (1) LOCAL UNIT
- (1) REMOTE UNIT
- (2) POWER SUPPLIES

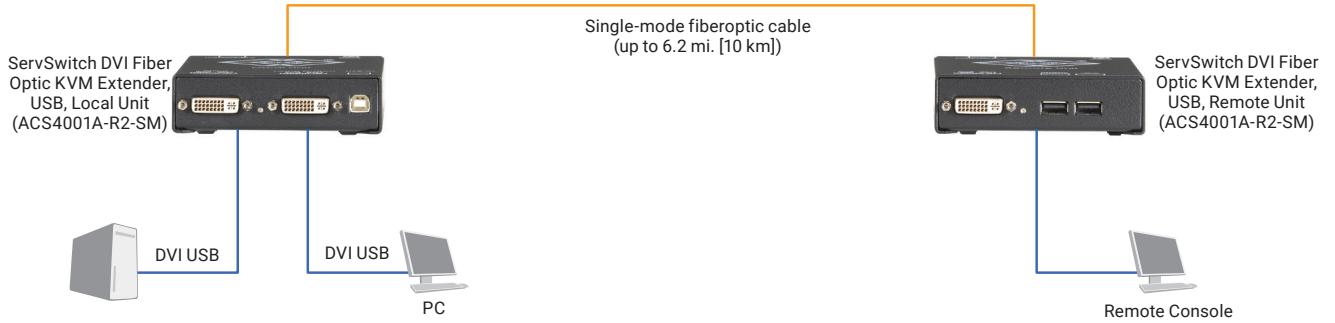
DUAL DVI FIBER KVM EXTENDER FOR USB K/M (ACS4201A-R2-SM)	
DISTANCE	6.2 mi. (10 km)
RESOLUTION (MAXIMUM)	1920 x 1200 @ 60 Hz
CE APPROVAL	Yes
CONNECTORS	Local unit: Keyboard and mouse: (1) USB Type B F; Monitor: (4) DVI-D F; Interconnect: (2) pair of LC; Remote unit: Keyboard and mouse: (2) USB Type A 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	Each unit: 1.6"H x 4"W x 5.6"D (4.1 x 10.2 x 14.2 cm)
WEIGHT	Each unit: 1.3 lb. (0.6 kg)



APPLICATION

SERVSWITCH DVI KVM EXTENDERS

Extend the distance between a local USB console and CPU and a remote USB console up to 6.2 mi. (10 km) over single-mode fiberoptic cable.



ORDERING INFORMATION

ITEM	CODE
ServSwitch DVI CATx KVM Extenders for PS/2 Keyboards and Mice	
Single DVI	ACS2009A-R2
Dual DVI	ACS2209A-R2
for USB Keyboards and Mice	
Single DVI	ACS4001A-R2
Dual DVI	ACS4201A-R2
ServSwitch DVI Fiber Optic KVM Extenders for USB Keyboards and Mice	
Single DVI	ACS4001A-R2-SM
Dual DVI	ACS4201A-R2-SM
NOTE: Extenders include (1) Local Unit, (1) Remote Unit and (2) Power Supplies..	

NOTES _____

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ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

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