

ServSwitch Brand Fiber KVM Extender II/II-SM

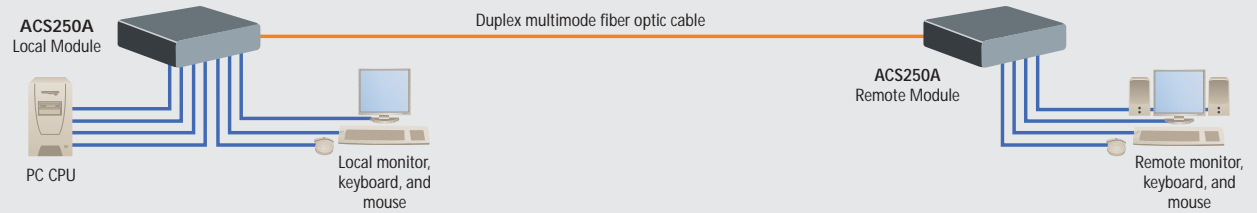


Long-distance digital KVM extension
over fiber optic cable.

FEATURES

- Digital format ensures high-quality transmission.
- Transmits KVM signals and audio over a single pair of fiber strands.
- Goes to distances up to 1310 ft. (400 m) on multimode cable or 6.2 mi. (10 km) on single-mode cable.
- Supports an optional local monitor, keyboard, and mouse user station.
- Compatible with most VGA standards.

Use the Fiber KVM Extender II and II-SM for remote control of a CPU over single- or multimode fiber optic cable.



OVERVIEW

The ServSwitch™ Brand Fiber KVM Extender II or II-SM provides digital transmission of video, keyboard, mouse, and optional audio information on two fibers over distances up to 1310 ft. (400 m) of multimode cable or 6.2 mi. (10 km) of single-mode cable.

Top-quality video

Unlike most KVM extenders which use analog signals, the ServSwitch Brand Fiber KVM Extender II or II-SM uses digital signals to maintain top image quality.

The extender works by digitizing video output from a local CPU, sending it across fiber optic cable to a remote unit which converts it back to the original analog signal.

Plus, because the extender uses fiber optic cable, transmissions are immune from electrical interference from sources such as nearby machinery or fluorescent lights.

Go for distance

The ServSwitch Brand Fiber KVM Extender II and II-SM uses fiber optic cable for extraordinary reach. The Fiber KVM Extender II-SM (ACS251A) is the single-mode model. It transmits digital video up to 6.2 mi. (10 km) across 9/125- μ m single-mode fiber.

The Fiber KVM Extender II (ACS250A) is the multimode model. It transmits digital video up to 720 ft. (220 m) across 62.5- μ m multimode fiber or up to 1310 ft. (400 m) across 50- μ m multimode fiber. Image quality is independent of cable length.

Minimize fiber requirements

The ServSwitch Brand Fiber KVM Extender II and II-SM uses a single fiber pair for transmission.

The digital video signal is transmitted serially over one fiber at rates up to 1.5 Gbps. The extender uses the second fiber of the fiber pair to send remote mouse and keyboard information back to the local CPU.

Because the extender needs only these two fibers for full operation, compared to the five fibers some extenders need, you save money by running less cable.

Wide compatibility

The extender supports many of the most common VGA-compatible video standards (DOS mode, VGA, XGA, SVGA, or SXGA) at resolutions up to 1280 x 1024 or output refresh rates up to 75 Hz.

The extender also supports all common PS/2 style mice and pointing devices including two-button mice, three-button mice, wheel mice such as the Microsoft® IntelliMouse®, trackballs, and more.

Audio, too!

In addition to the keyboard, video, and mouse information, the local unit can also digitize audio signals from a local CPU or other audio device and encode it into the digital information sent to the remote unit on the video fiber. The sound quality doesn't approach high fidelity (it's converted to monaural if it's stereo), but is more than adequate for system sounds such as alerts.

Local and remote control

You can also connect an optional local user station (keyboard, monitor, and mouse only) to the local unit. The local unit passes video through to the local monitor and switches the keyboard and mouse. (The local user contends with the remote user for keyboard and mouse control of the CPU: Once the active user station is idle for two seconds, the first user to type at the keyboard or move the mouse will be granted control.)

Easy to install

The extender includes all cables you would normally need except for the fiber cable. It automatically adjusts all transmission and image parameters—you don't have to configure it!



ACS250A

TECH SPECS

Cable Required —

ACS250A: 50/125- μ m or (to lesser distances) 62.5/125- μ m multimode duplex fiberoptic cable;

ACS251A: 9/125- μ m single-mode duplex fiberoptic cable

Compliance — CE; FCC Part 15 Subpart B Class A, IC Class/classe A

Interfaces —

Extension:

ACS250A: Duplex multimode fiberoptic;

ACS251A: Duplex single-mode fiberoptic;

Video: VGA compatible (DOS mode, VGA, SVGA, XGA, SXGA);

Plug-and-Play for monitors and DDC not supported;

Keyboard and mouse: IBM PS/2 compatible;

Sound: Mono audio

Resolution and Refresh Rate —

Supports resolutions up to 1280 x 1024 and refresh rates up to 75 Hz;

Maximum pixel clock (bandwidth) is 108 MHz

Optical Type and Wavelength —

ACS250A: 850-nm multimode;

ACS251A: 1300-nm single-mode

Transmitter Launch Power —

ACS250A: Into either 50- μ m or 62.5- μ m cable: From -4.5 to -9 dBm;

ACS251A: Into 9- μ m cable: From -3 to -9 dBm

Receiver Sensitivity —

ACS250A:

With 62.5- μ m cable: -12.5 dBm;

With 50- μ m cable: -13.5 dBm;

ACS251A: -14.4 dBm

Optical Budget —

ACS250A:

With 62.5- μ m cable: 6.7 dB maximum;

With 50- μ m cable: 7.5 dB maximum;

ACS251A: 10.5 dB maximum

Maximum Distance —

Between Extender's Local and Remote Units:

ACS250A:

Over 62.5- μ m cable: 720 ft. (220 m);

Over 50- μ m cable: 1310 ft. (400 m);

ACS251A: 6.2 mi. (10 km)

User Controls — None

Connectors —

Local Unit:

(4) 6-pin mini-DIN female;

(2) HD15 female;

(1) 3.5-mm stereo audio jack;

(1) pair SC female;

(1) 2.1-mm barrel jack;

(1) 8-pin mini-DIN for service;

Remote Unit:

(2) 6-pin mini-DIN female;

(1) HD15 female;

(1) 3.5-mm stereo audio jack;

(1) pair SC female;

(1) 2.1-mm barrel jack;

(1) 8-pin mini-DIN

Indicators — Each Unit: (1) Power LED

Temperature Tolerance —

Operating: 50 to 104°F (10 to 40°C);

Storage: 32 to 158°F (0 to 70°C)

Humidity Tolerance — Up to 70% noncondensing

Enclosure — Aluminum

Power —

Input: 100 to 264 VAC, 50 to 60 Hz, autosensing, at up to 200 mA at 115 VAC or 100 mA at 230 VAC;

Output: 12 VDC at up to 2.5 amps (Local Unit draws only 1 amp maximum, Remote Unit only 1.1 amps);

Consumption:

Local Unit: 14 watts maximum;

Remote Unit: 12 watts maximum

Size — Each Unit: 2.6" H x 7.3" W x 7.1" D (6.6 x 18.5 x 18 cm)

Weight — Local Unit: 2.4 lb. (1.1 kg);

Remote Unit: 2.2 lb. (1 kg)

WHAT'S INCLUDED

- ◆ A local unit.
- ◆ A remote unit.
- ◆ (2) power supplies with 6-ft. (1.8-m) nondetachable output cords, one for each unit.
- ◆ (2) input cords, one for each power supply; length might vary depending on region and source, but is normally 6 ft. (1.8 m).
- ◆ (1) 6-ft. (1.8-m) VGA-extension cable with HD15 male connectors at both ends.
- ◆ (2) 6.6-ft. (2-m) PS/2® extension cables with 6-pin mini-DIN male connectors at both ends.
- ◆ (1) 6.6-ft. (2-m) audio-extension cable with 3.5-mm stereo audio plugs at both ends.
- ◆ A users' manual.

Item	Code
ServSwitch Brand Fiber KVM Extenders	
II (Multimode)	ACS250A
II-SM (Single-Mode)	ACS251A
You may also need...	
19" Rackmount Tray	RMK250A
To connect your extender, order...	
Multimode Duplex Fiber Optic Cable, PVC, SC-SC	
Custom Lengths	EFN4025
Single-Mode Duplex Fiber Optic Cable, PVC, SC-SC	
Custom Lengths	EFN5010