



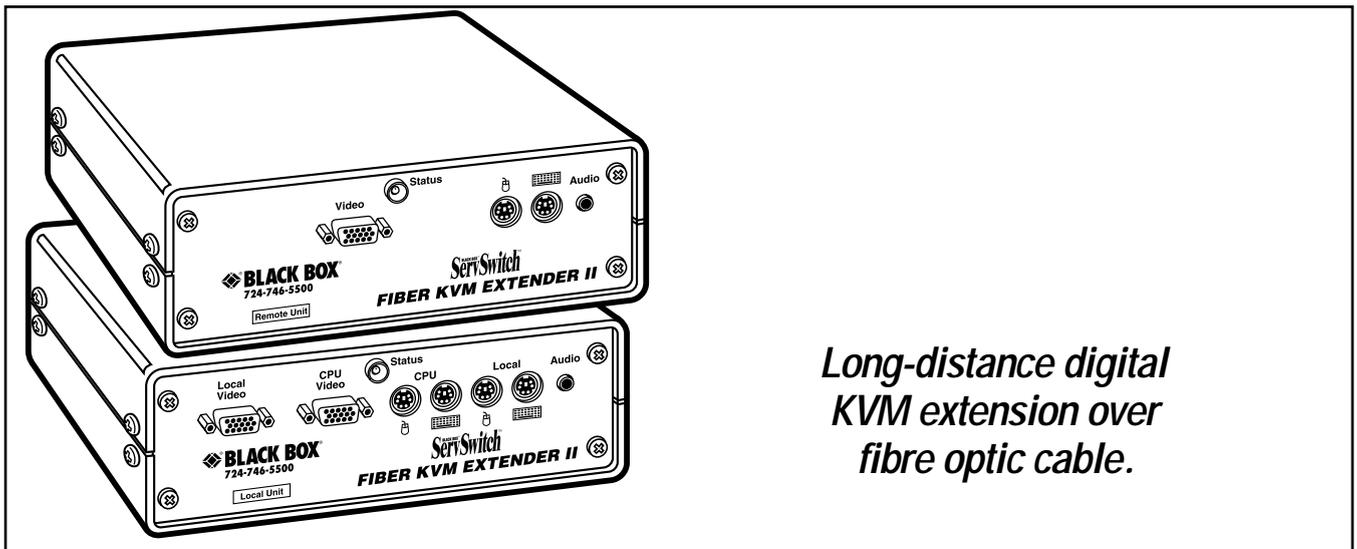
BLACK BOX[®]

NETWORK SERVICES

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SERVSWITCH BRAND FIBRE KVM EXTENDER II/II-SM



*Long-distance digital
KVM extension over
fibre optic cable.*

Key Features

- ▶ **Digital format ensures high-quality transmission.**
- ▶ **Transmits KVM signals and audio over a single pair of fibre 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.**

The ServSwitch™ Brand Fibre KVM Extender II or II-SM provides digital transmission of video, keyboard, mouse, and optional audio information on two fibres 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 analogue signals, the ServSwitch Brand Fiber KVM Extender II or II-SM uses digital signals to maintain top image quality.

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

Plus, because the extender uses fibre optic cable, transmissions are immune from electrical interference from

sources such as nearby machinery or fluorescent lights.

Go for distance

The ServSwitch Brand Fibre KVM Extender II and II-SM uses fibre optic cable for extraordinary reach. The Fibre 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 fibre.

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 fibre or up to 1310 ft. (400 m) across 50- μ m multimode fibre. Image quality is independent of cable length.

Minimize fibre requirements

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

The digital video signal is transmitted serially over one fibre at rates up to 1.5 Gbps. The

extender uses the second fibre of the fibre pair to send remote mouse and keyboard information back to the local CPU.

Because the extender needs only these two fibres for full operation, compared to the five fibres 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 digitise 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 fibre. 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

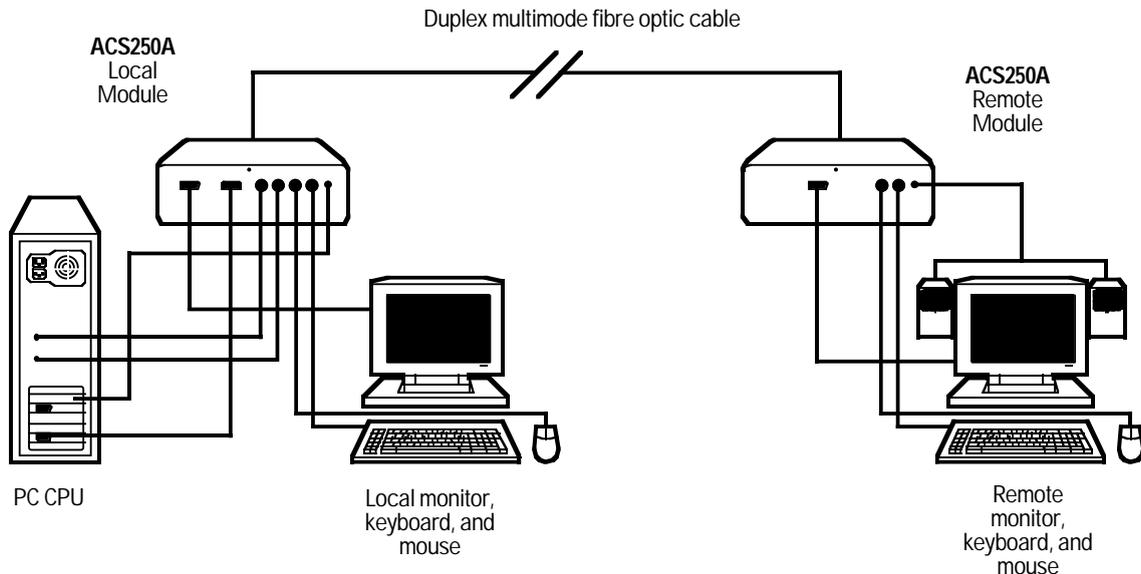
You can also connect an optional local user station (keyboard, monitor, and mouse only) to the local unit. The local unit passes video through to the

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 fibre cable. It automatically adjusts all transmission and image parameters—you don't have to configure it!

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



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

Recognise 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.

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.

Specifications

Cable Required:

ACS250A: 50/125- μ m or (to lesser distances) 62.5/125- μ m multimode duplex fibreoptic cable;
ACS251A: 9/125- μ m single-mode duplex fibreoptic cable

Compliance:

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

Interfaces:

Extension:
ACS250A: Duplex multimode fibreoptic;
ACS251A: Duplex single-mode fibreoptic;
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: LEDs:

(1) Power

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)

The Complete Package

- 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.

Ordering Information

ITEM

CODE

ServSwitch Brand Fibre KVM Extenders
II (Multimode).....ACS250A
II-SM (Single-Mode).....ACS251A

You may also need...

Multimode Duplex Fibre Optic Cable, PVC, SC-SC
Custom Lengths.....EFN4025
Single-Mode Duplex Fibre Optic Cable, PVC, SC-SC
Custom LengthsEFN5010