

## ServSwitch Wireless KVM Extender



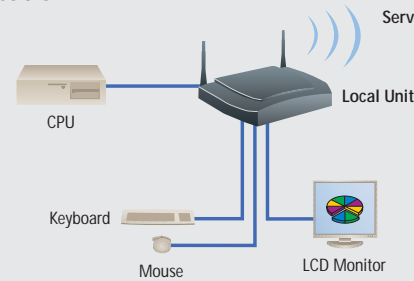
**Move your workstation up to 100 feet  
from your CPU—without cables!**

## FEATURES

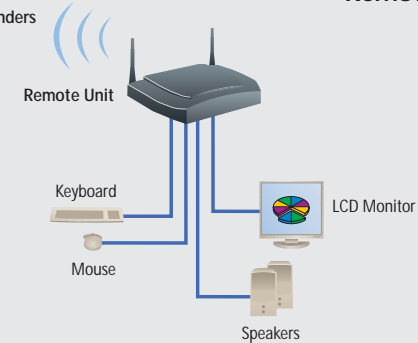
- Perfect for fast and easy network expansion as well as frequent moves.
- Range of up to 100 feet.
- State-of-the-art compression ensures video every time.
- Fast, easy installation—no software required.
- Advanced security features.
- Full audio support enables you to use speakers or headphones at the remote workstation.

*The ServSwitch Wireless KVM Extender supports both a local and a remote workstation.*

### Local Location



### Remote Location



## OVERVIEW

The ServSwitch™ Wireless KVM Extender enables you to connect keyboard, video, and mouse peripherals to your CPU without cables.

This extender saves you the expense and inconvenience of running cable. It's perfect for difficult cabling environments such as historic buildings or in situations where you frequently move servers and workstations. With an effective range of 100 feet (30.5 m), the extender has enough coverage for most buildings.

### High throughput, minimum interference

The ServSwitch Wireless KVM Extender uses a proprietary transmission method based on the IEEE 802.11a standard. IEEE 802.11a supports data throughput to an upper range of 54 Mbps within the 5-GHz band called U-NII (Unlicensed National Information Infrastructure) in the United States. Because this frequency is used far less often than the more popular 2.4-GHz band, it's far less prone to interference from other wireless devices.

802.11a uses Orthogonal Frequency Division Multiplexing (OFDM) technology to achieve its high throughput. OFDM transmits high-speed digital data over a radio by splitting the radio signal into multiple, smaller sub-signals that are subsequently transmitted simultaneously at different frequencies to the receiver. Because OFDM also reduces the amount of crosstalk, you get cleaner transmission and higher throughput.

### Quality video

The Wireless KVM Extender supports VGA, SVGA, and XGA video at resolutions of 640 x 480, 800 x 600, and 1024 x 768, and is compatible with most common PC video monitors (although not extra large or specialty monitors). Best performance is achieved if the color resolution is set to 24-bit color or higher.

For reliable video quality, the extender processes inbound and outbound analog video using a compression engine featuring a multimedia digital signal processor (DSP) and Field-Programmable Gate Array (FPGA) chip that are coupled to an IEEE 802.11a radio board.

### Plug-and-play convenience

The ServSwitch Wireless KVM Extender is a simple hardware-only solution that requires no software. Setup is fast and easy—virtually plug-and-play. Just connect the receiver unit directly to your remote keyboard, monitor, and mouse and connect the transmitter to your CPU and your local keyboard, monitor, and mouse (see illustration below). And, because the remote unit also supports speakers or headphones, you get full functionality at your remote workstation.

A convenient on-screen display, accessed from the receiver side, enables you to make adjustments and fine-tune the video. This display is embedded in the extender's hardware and requires no new operating systems, drivers, or application software.

### Secure

Security is based on the Advanced Encryption Standard (AES), a highly secure encryption scheme with a fixed block size of 128 bits and a key size of 128, 192, or 256 bits.

### It's got what you need

The Wireless KVM Extender comes ready to set up and go. It includes a transmitter unit and receiver unit (plus power supplies for both) as well as a 3.5-foot (1-m) cable with video and PS/2 compatible keyboard and mouse connectors.

## TECH SPECS

**Radio** — Frequency: 5150–5350, 5725–5825 MHz;  
Modulation: OFDM (Orthogonal Frequency Division Multiplexing);  
Nominal Power Output: 17 dBm;  
Protocol: IEEE 802.11a;  
Range: XGA video resolution to 100 feet (30.5 m)

**Audio Support** — Analog

**Compatibility** — Computer: IBM PC or compatible;  
Video: VGA, SVGA, XGA; Peripherals: PS/2® keyboard  
and mouse, extended speakers

**Compliance** — FCC Class A, UL®, cUL

**Security** — AES encryption with 802.1x authentication

**Video Resolution** — 640 x 480, 800 x 600, 1024 x 768 @ 60 Hz

**Connectors** — Transmitter and receiver:

Video: (1) DB15 F;

Keyboard and mouse: (2) 6-pin mini DIN;

Stereo: (1) 3.5-mm mini jack

**Temperature** — Operating: 32 to 104°F (0 to 40°C);

Storage: -4 to +122°F (-20 to +50°C)

**Power** — External power supply: Input: 100–240 VAC,

50/60 Hz, switching;

Output: 12 VDC

**Size** — 1.75"H (1U) x 6.25"W x 5.25"D (4.4 x 15.9 x 13.3 cm)

**Weight** — 1 lb. (0.5 kg)



## Technically Speaking

### About video standards.

IBM® PCs and compatibles come with a variety of different video displays described by cryptic sets of letters. What these letters mean is not important. What is important is that each describes a video monitor of a specific maximum size as measured in pixels:

- VGA: 640 x 480
- SVGA: 800 x 600
- XGA: 1024 x 768
- QVGA: 1280 x 960
- SXGA+: 1400 x 1050
- UXGA: 1600 x 1200
- QXGA: 2048 x 1536
- QSXGA+: 2800 x 2100
- QUXGA: 3200 x 2400
- WXGA: 1280 x 800
- SXGA: 1280 x 1024
- W-XGA : 1366 x 768
- WSXGA+: 1680 x 1050
- WUXGA: 1920 x 1200
- QSXGA: 2560 x 2048

The ServSwitch Wireless KVM Extender supports VGA, SVGA, and XGA—the most common video standards.

Item	Code
ServSwitch Wireless KVM Extender	ACU5200A

## 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.

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