

## ServSwitch DTX

# Introducing the next-generation KVM extender and multimedia solution!

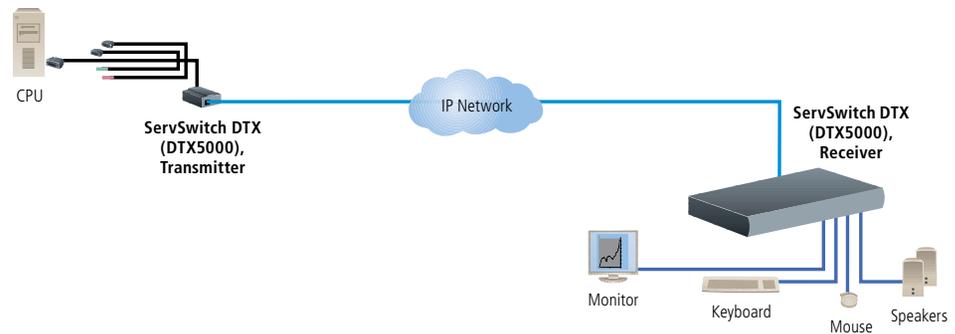


## FEATURES

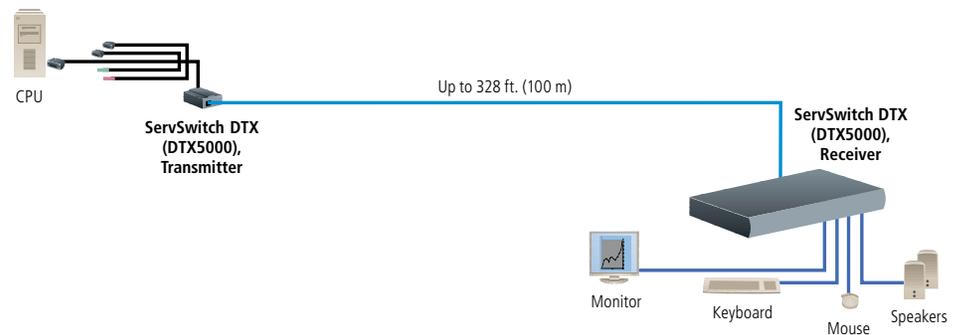
- » Available in kits or as individual components.
- » Feature USB virtual media (VM) support.
- » Connect up to four USB 2.0 devices to a receiver.
- » Support DVI-I video and are also compatible with VGA.
- » The DTX5001 components support in-line conversion, so you can convert analog to digital on either side of the point-to-point extension. The DTX5000 and DTX5002 components can handle analog or digital but cannot convert signals—what goes in (analog or digital) is what comes out.
- » Encrypt media streams for Secure Socket Layer (SSL) connections over a TCP/IP link.
- » Using the extenders' password-protected serial interface menus, you can configure network connections, change video settings, and perform flash upgrades.
- » Support PC®, Sun®, and Mac® CPUs and work with Windows®, Redhat Linux®, Sun® Solaris®, and Mac® operating systems.
- » The DTX5000 components support resolutions up to 1280 x 1024 at 60 Hz.
- » DTX5001 and DTX5002 components support resolutions up to 1920 x 1200 at 60 Hz!
- » All deliver CD-quality audio support.
- » Provide 24-bit, 60-fps video.
- » Great for relocating computers to secure locations over existing IP network infrastructure.
- » Dual-head receivers enable you to use two DVI-I monitors at a remote location.
- » The ServSwitch DTX Control Appliance (DTX5000-CTL) enables matrix switching, control, and authentication capabilities.

## Typical applications

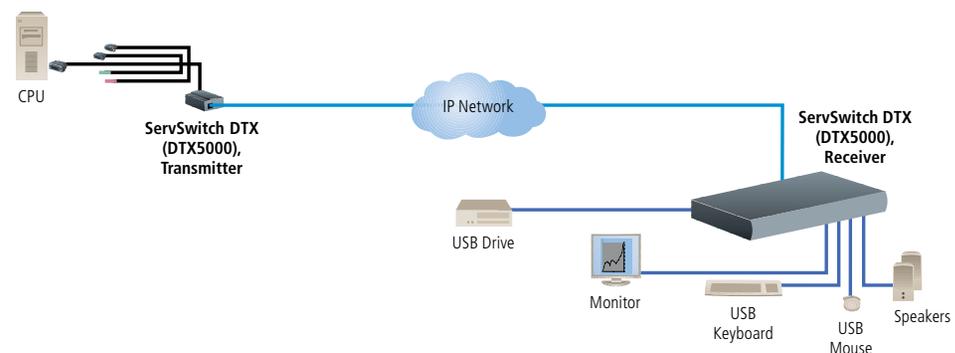
### IP



### Point to Point



### IP with USB Virtual Media



## OVERVIEW

### Work locally, extend globally.

It used to be a big deal if you could extend KVM signals over copper up to 1000 feet (304.8 m) or over fiber optic cable up to 6 miles (9.7 km). But now, you're looking for something more, something with greater reach, something that meets your extension and multimedia needs.

That something is the [ServSwitch™ DTX](#).

The ServSwitch DTX eliminates the distance limitations of copper and fiber optic extenders. It extends a USB 2.0 or PS/2® CPU's KVM, audio, and USB peripheral signals hundreds or even thousands of miles over an IP network to a workstation with a DVI monitor, speakers, and a USB or PS/2 keyboard and mouse—or a mix of both.

Like a traditional KVM extender, the [ServSwitch DTX](#) has a transmitter unit for your CPU and a receiver unit for your workstation. As long as you have an IP link between your CPU and workstation, the DTX provides secure, high-quality connectivity. USB peripherals attached to the DTX at your workstation operate as if they're directly connected to the CPU, even if the CPU itself is continents away.

### No other KVM extender enables USB virtual media transfers.

Only the [ServSwitch DTX](#) features USB virtual media (VM) support. With USB VM, you can use the four USB ports on the DTX's receiver to connect to and access USB 2.0 CD-ROM drives, USB removable hard drives, or other USB peripherals. If you use a PS/2 keyboard and mouse with the receiver, all four USB ports can be used for USB devices. If you use a USB keyboard and mouse with the receiver, you can connect up to two USB devices to the receiver. All USB peripherals function as if they're attached directly to the CPU—and transfer media data at the maximum speed supported by your network. You can even hot-plug USB devices on the workstation end without any affect on the entire system.

### Your multiplatform, multimedia KVM extender.

[ServSwitch DTX](#) works with just about any computer and operating system software. It supports PC, Sun, and Mac CPUs and works with Windows, Redhat Linux, Sun Solaris, and Mac operating systems.

As a next-generation KVM extender, the DTX provides complete hardware KVM extension—no startup and configuration software is needed. When the receiver powers up in a point-to-point application, the system automatically establishes a connection between the transmitter and receiver. No user intervention is required. To view DTX system configuration, simply access the receiver's on-screen display (OSD).

The DTX displays 24-bit, 60-fps color video and supports resolutions up to 1920 x 1200. In addition, it also supports DVI and VGA for universal video compatibility, plus it delivers CD-quality sound for robust audio extension. For demanding multimedia applications, just connect the DTX to either Fast Ethernet or Gigabit Ethernet—you'll have all the bandwidth you need!

The ServSwitch DTX Single-Head, Inline Conversion components (DTX5001) support in-line conversion of video signals. In other words, if you input digital signals, you can output analog signals and vice versa. The single-head and dual-head DTX components (DTX5000 and DTX5002) support both DVI and VGA, but cannot convert signals—what you put in is what you get out.

### Keep your CPU and communications secure.

With the [ServSwitch DTX](#), you can place your CPU in a safe location to protect it from the dust and vibrations of an industrial environment, and you can secure it from would-be thieves by locking it away in a cabinet or control room.

Furthermore, the DTX encrypts media streams for Secure Socket Layer (SSL) connections over a TCP/IP link. For more advanced control, just connect a networked computer running HyperTerminal or similar emulation software to the receiver. Using the extender's password-protected serial interface menu, you can then perform administrative and maintenance tasks for both the receiver and transmitter. Configure the DTX's network connections, change video settings from digital to analog VGA video, perform flash upgrades, configure hotkeys, and more.

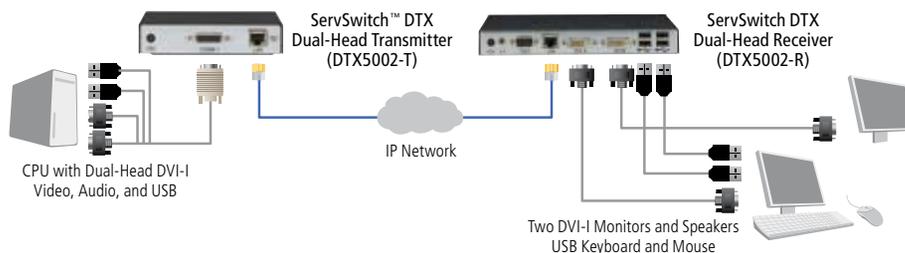
### Use it point-to-point, too.

You can also use the [ServSwitch DTX](#) in a point-to-point configuration as you would any other copper extender. Maximum distance is 328 feet (100 m) between your CPU and KVM workstation.



DTX5000 receiver: top: front; bottom: rear

## Dual-Monitor DVI Extension over IP



### TECH SPECS

**Approvals** — UL®, cUL, FCC 15 Class A  
**Distance (Maximum)** — Point-to-point only: 328 ft. (100 m)  
**Network Encryption** — SSL/AES 128-bit  
**Resolution (Maximum)** — DTX5000: 1280 x 1024 at 60 Hz;  
 DTX5001–DTX5002: 1920 X 1200 at 60 Hz  
**Speed** — Serial: Up to 19.2 kbps;  
 Network: 100 Mbps or 1 Gbps  
**CE Approval** — Yes  
**Connectors** —  
 Transmitter:  
 USB keyboard and mouse: (1) dual-head or (2) single-head USB Type A M;  
 Digital/analog video: (1) single-head or (2) dual-head DVI-I M;  
 Speakers: (1) 3.5-mm stereo plug;  
 Network: (1) RJ-45 (10/100/1000 Mbps);  
 DTX5000 and DTX5000-T also transmitter units also include:  
 (1) mono plug for a microphone;  
 Receiver:  
 Keyboard and mouse: (4) USB Type A F;  
 USB peripherals: (2) dual-head or (4) single-head if PS/2® keyboard and mouse are used  
 Digital/analog video: (1) single head or (2) dual-head DVI-I F;  
 Speakers: (1) 3.5-mm stereo socket;  
 Network: (1) RJ-45 (10/100/1000 Mbps);  
 Serial: (1) DB9 M;  
 DTX5000 and DTX5000-R, and DTX5001 and DTX5001-R receiver units also include (2) 6-pin mini DIN F (PS/2) for keyboard/mouse and (1) mono jack for a microphone  
**Indicators** — (4) LEDs: (2) front-panel blue LEDs indicating Power (PWR) and an active (ACTIVE) connection; (2) green/yellow RJ-45 port LEDs indicating link activity  
**Power** — Transmitter: From the USB bus; consumption: 6 watts; an optional power supply is also available;  
 Receiver: 100–240 VAC, 50–60 Hz, 1.2 A, 8 watts  
**Size** — Transmitter: 0.9"H x 2.7"W x 2.1"D (2.3 x 6.9 x 5.3 cm);  
 Receiver: 1.2"H x 8.3"W x 5.2"D (3 x 21.1 x 13.2 cm)  
**Weight** — Transmitter: 0.6 lb. (0.3 kg);  
 Receiver: 4.4 lb. (2 kg)

### What's included

#### DTX5000–DTX5002:

- ◆ Transmitter
- ◆ Receiver with an autosensing power supply
- ◆ User's manual CD-ROM

#### DTX5000-T–DTX5002-T:

- ◆ Transmitter
- ◆ Autosensing power supply
- ◆ User's manual CD-ROM

#### DTX5000-R–DTX5002-R:

- ◆ Receiver
- ◆ Autosensing power supply
- ◆ User's manual CD-ROM

### Item

### Code

#### For point-to-point KVM extension over IP, order...

ServSwitch DTX Kits	
Single-Head	DTX5000
Single-Head, Inline Conversion for Video	DTX5001
Dual-Head	DTX5002

#### For individual ServSwitch DTX units, order...

ServSwitch DTX Single-Head	
Transmitter	DTX5000-T
Receiver	DTX5000-R
ServSwitch DTX, Single-Head, Inline Conversion for Video	
Transmitter	DTX5001-T
Receiver	DTX5001-R
ServSwitch DTX Dual-Head	
Transmitter	DTX5002-T
Receiver	DTX5002-R

#### For KVM matrix switching over IP with single-head applications, order...

ServSwitch DTX Control	DTX5000-CTL
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#### To connect a VGA monitor to the receiver, order...

DVI-I Male–VGA HD15 Female Adapter	FA461
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#### To connect the transmitter to a CPU with a VGA video output, order...

DVI-I Female–VGA HD15 Male Adapter	FA462
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