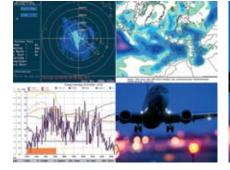ServSwitch™ 4Site Flex

Access up to four CPUs and monitor all simultaneously in real time.

FEATURES

» 4-to-1 KVM switching with smooth, real-time image processing: DVI, VGA, HDMI, HDCP support.
» Four display modes: Quad, Full Screen, Picture-in-Picture (PiP), and Win Mode.
» Image rotation for vertical mounted displays.
» Excellent video quality up to 1920 x 1200.
» Support for USB and PS/2 keyboard/mouse.
» Embedded digital audio.
» Transparent USB 2.0 peripheral matrix switching.
» Compatible with many touchscreens.
» Switching via hotkey, hotmouse, OSD, external program, or serial control device.
» Ensures short reaction times in mission-critical applications.
» Ideal for distributed transaction processing (DTP), programming, trading, and control rooms.

Quad Mode

PiP Mode

Win Mode

OVERVIEW

KVM and Peripheral Switching, plus Image Processing

The ServSwitch 4Site Flex simultaneously displays four analog or digital computers and video sources on a single screen in real time with smooth video performance at full refresh rates without frame dropping. Each input video can be resized and repositioned anywhere on the display. Computer sources can be controlled with just one keyboard and mouse or by touchscreen. Each of the input ports can be DVI-D or VGA. Keyboard and mouse interfaces can be PS/2 or USB. The console port can be set to output an analog VGA or digital DVI video signal. Keyboard and mouse are USB only.

To display more than four sources simultaneously on a single screen, the ServSwitch 4Site Flex can be cascaded. The switch is a ready-to-use hardware solution independent of any operating system with a high level of reliability.

Excellent Video Performance

ServSwitch 4Site Flex processes analog (VGA) and digital video signals (DVI, HDMI by adapter) via DVI-I ports as both input and output. Various video modes, including HDTV up to 1920 x 1200, are supported in any combination as input and output. The integrated support for HDCP encryption enables the perfect display of movies and animated contents. When scaling videos up and down, the highly sophisticated 6-symbol interpolation filter guarantees brilliant image quality and sharp text readability. The 30-bit RGB video engine ensures extremely precise color rendering as required in broadcasting.

Display Modes

Using **Win Mode**, all video sources can be freely resized and independently repositioned anywhere on the display, just like windows. They can overlap each other transparently. Resizing and repositioning are done by mouse or touchscreen. Four customized Win modes can be saved for quick activation, e.g. via front buttons 1–4.

In **Quad Mode**, the output video signal receives all four incoming video signals sharing the screen with four equal tiles (scaled). Each tile displays the entire screen content of a video source or computer. This mode will also work with two video signals (**Dual Mode**) instead of four.

Similar to Quad Mode, **Picture-in-Picture (PiP) Mode** combines more than one video signal for output on a single screen. Using the PiP Mode, a single main image displays in full output resolution, and up to three of the other video signals are displayed on the right side of the main picture. These images can be scaled to a specific, configurable size and position.

In **Full Mode**, a single source is displayed at full resolution and the entire content is fully visible. For vertically mounted displays, each image can be rotated.

No matter which of the multiviewing modes is activated, you still have full keyboard and mouse control of the selected server. Intuitive hotkey or hotmouse switching between the screen tiles swaps the main screen and gives you full keyboard and mouse control to the new target computer. A simple hotkey takes you back into non-scaled, full-screen operation in case of an emergency on one of the selected servers.

12/3/2012
#27190

724-746-5500 | blackbox.com

BLACK BOX
NETWORK SERVICES

2 of 3

USB 2.0 Switching

ServSwitch 4Site Flex features a transparent, high-speed USB 2.0 matrix to switch USB devices like finger printers, memory sticks, and webcams to the connected computers. The switching can be performed automatically with the active channel, or manually with and without warning. For example, a single finger printer can be used to log in on all connected computers. Data can be copied from one computer to the other without being networked—just via a memory stick connected to one of the four USB 2.0 ports on the rear panel of 4Site Flex.

Audio

ServSwitch 4Site Flex supports 7.1 Surround Sound via HDMI input. Audio signals are put out via HDMI, S/PDIF (TOSLINK® and RCA), or 2-channel analog stereo jack. The analog output is galvanically isolated to eliminate noise and humming induced by ground loops. The volume can be controlled via the on-screen display (OSD) or with the audio keys on multimedia keyboards.

Video Switching

There are six different ways to switch video channels and display modes:

1. Use the buttons on the front of the unit (front-panel switching).
2. Use configurable keyboard short cuts (hotkeys).
3. Use mouse functions (hotmouse).
4. Use the external configuration program of the unit on a remote computer.
5. Via a serial port using the protocol DCP XML.
6. Use a USB touchscreen.

Applications

The features of the ServSwitch 4Site Flex cover a variety of environments and many different purposes. For example:

- Programmers may prefer to have a single screen on their desks but still have control over other processes, such as compilers running in the background on a second, third, or fourth workstation.
- In a network operations center (NOC) or other control room environment, multiple sources can be monitored and operated from a single screen. Especially when being used on top of a large-scale multiuser KVM switching system, the KVM signals of up to four user stations can be used to feed into the ServSwitch 4Site Flex. KVM extension then can be used to carry these four KVM signals at once over a single CATx or fiber cable in real time. Even over IP, up to four signals can be routed or extended to a remote viewer for greater control.

TECH SPECS

Control Options — Front-panel buttons, configurable keyboard shortcuts, mouse, external device configuration program, serial control via DCP-XML, touchscreen

Distance (Maximum) — 16.4 ft. (5 m) to keyboard/mouse/video; 16.4 ft. (5 m) to each computer

Environmental — Humidity: 5 to 85% non-condensing; Operating temperature: -49 to +41° F (-45 to +5° C)

On-Screen Menu — Yes (English, German, Spanish)

Resolution — Input and Output
Up to 1920 x 1200 @ 60 Hz (DVI and VGA), HDTV modes supported, progressive (non-interlaced) with reduced blanking interval; Color depth: 30 bit, 6-symbol interpolation filter, EDID adjustment

Selector Buttons — (4) Channel Switching, (1) Quad Mode, (1) Full Mode, (1) PiP Mode, (1) Win Mode, (1) Reset; keyboard combinations (hotkeys) to configure resolution or to open On-Screen Menu

CE Approval — Yes

RoHS — Yes

Connectors —
CPU: (4) DVI-I (analog and digital), (4) 6-pin mini DIN F, (4) USB Type B, HDMI via adapter;
Console: (1) DVI-I, (2) USB Type A, HDMI via adapter;
USB devices: (4) USB Type A;
Audio: Input: HDMI via 4 DVI-I ports, Output: (1) S/PDIF optical and electrical, (1) 3.5-mm analog stereo jack, or via HDMI at (1) DVI-I port (7.1 Surround Sound supported);
Switch upgrade: (1) USB, (1) RJ-45 serial RS-232 (for updates or remote control);
Power: (1) IEC320

Indicators —
(4) LEDs: Status Video source 1 to 4, (1) Full mode, (1) Quad mode, (1) PiP-Mode, (1) Win Mode

Power — Internal, 100 to 240 VAC, 50 to 60 Hz, max. 25W

Size — 1.75"H x 17"W x 9.2"D (4.4 x 43.6 x 23.4 cm)

Weight — 6.4 lb. (2.9 kg)

What's included

- ✦ (1) ServSwitch 4Site Flex
- ✦ (2) DVI CPU cable, 6 ft. (2 m)
- ✦ (2) VGA CPU cable sets, 6 ft. (2 m)
- ✦ (1) Console cable
- ✦ (1) Converter USB <-> PS/2
- ✦ (1) Upgrade cable
- ✦ 19" rackmount kit
- ✦ (1) Manual on CD

Item	Code
ServSwitch 4Site Flex	**KVP4004A**

12/3/2012
#27190

724-746-5500 | blackbox.com

BLACK BOX
NETWORK SERVICES

3 of 3