

# **BLACK BOX**<sup>®</sup> NETWORK SERVICES

## *ServSwitch CX*



**KV1424A: top: front view;  
bottom: rear view**

## Features

- Optional IP support enables you to access servers remotely.
- Reset one or more host system power switches via its power control port.
- Includes rackmounting hardware.
- USB Peripheral support for Keyboard and Mouse
- Built-in Cat X technology extends KVM signals up to 300m.
- Sound transmission via Cat X and IP !

### **Easier connections than ever!**

There are no bulky KVM cables to deal with—the ServSwitch™ CX enables up to four users to connect to the switch via CAT5, CAT5e, or CAT6 UTP cable. In addition, you can mix and match different kinds of servers on the same CX switch! Just run CATx cables from the switch's server ports to the Server Access Modules (SAMs) that connect to your servers. Simply choose the appropriate SAM for each server and you're all set.

### **Simple server selection.**

Whether you're working at a user station or the local analog console port in the server room, you can select a server to access and control via on-screen menus or hotkeys. On-screen menus make server selection simple because you can give each server a name that makes sense to you.

**Sight and sound support.**

The ServSwitch CX provides super-sharp resolutions up to 1900 x 1440 for all users up to 50m away. And the CX displays 1024 x 1280 video resolution at up to 300m away. By choosing a SAM with audio, you add support for stereo speakers, enabling you to hear audible alerts.

**The next best thing to being there for up to simultaneous 4 IP Users.**

Models with built-in IP connectivity enable you to access and switch remotely between servers over a private intranet or over the Internet for a single user. All you need is a Java™ enabled Web browser or VNC Viewer. Password security keeps out unauthorized users. Additional IP access can easily be added using Wizard IP ( ACR2004A ) attached to the local port or to a remote module. That way up to 4 users have simultaneous access to the attached servers!

**Take charge with your power.**

The ServSwitch CX has a power control port that enables a remote user to reset one or more power switches in the host system. Plus, dual power connectors enable the CX to draw power from its included wallmount adapter or from an optional redundant power supply if there's a power failure.

**Ready right now—and for the future.**

The ServSwitch CX comes complete with rackmounting hardware to install the switch in any open 1U of rack space in your server room. The switch can also be flash upgraded, so it's obsolescence-proof.

**Three flavours of remote Cat X modules.**

Depending on the needs there is a choice of three different Cat X remote modules.

The standard version KV04-REM supports full distance of 300m for video and PS/2 keyboard and mouse signals with sharpness and brightness control.

The KV04A-REM offers additional sound capabilities.

Top of the range is the DeSkew Audio Remote module allowing correction of color drift caused by cable twist differences with a budget of 62ns in 2ns steps for each color.

**MultiHead Video Support**

Servers with MultiHead graphic adapter cards are supported via synchronisation of multiple ServSwitch CX units. Please contact Black Box Tech Support for more details.

# Specifications

Distance (Maximum) —300 m

Resolution (Maximum) — 1900 x 1440 @ 50 m

CE Approval — Yes

Connectors — KV0416A, KV0424A, KV1416A, KV1424A: Local analog console port: Monitor: (1) HD15 F; Keyboard and mouse: PS/2: (2) 6-pin mini DIN F; USB: (2) Type A F; User ports: IP(2)/Non-IP (4) RJ-45; Servers: (16) or (24) RJ-45; Audio: (1) 3.5-mm jack; Serial RS-232 (DTE): (1) DB9 F; Power control: (1) DB9 M; Power input: (2) barrel F for standard and optional redundant power supply; KV1416A, KV1424A also have: Modem: (1) DB9 M; IP: (1) RJ-45;

KV1400A: (1) RJ-45, (2) 6-pin mini DIN M, (1) HD15 M;

KV1402A: (1) RJ-45, (2) 6-pin mini DIN M, (1) HD15 M, (1) 3.5-mm plug;

KV1401A: (1) RJ-45, (1) USB Type A M, (1) HD15 M;

KV1403A: (1) RJ-45, (1) USB Type A M, (1) HD15 M, (1) 3.5-mm plug;

KV1404A: (1) RJ-45, (1) 8-pin mini DIN M, (1) HD15 M, (1) 3.5-mm plug

Power — 100–240 VAC, 50–60 Hz, autosensing

Size — KV0416A, KV0424A: 44H x 483W x 216D mm);

KV1416A, KV1424A: 44H x 483W x 279D mm

Cat X Remote Units: KV04-REM, KV04A-REM and KV04AS-REM

All:

(1) RJ-45, (2) 6-pin mini DIN F, (1) HD15 F, (1) barrel F for optional redundant power supply  
KV04A-REM, KV04AS-REM: plus 3.5mm Audio jack

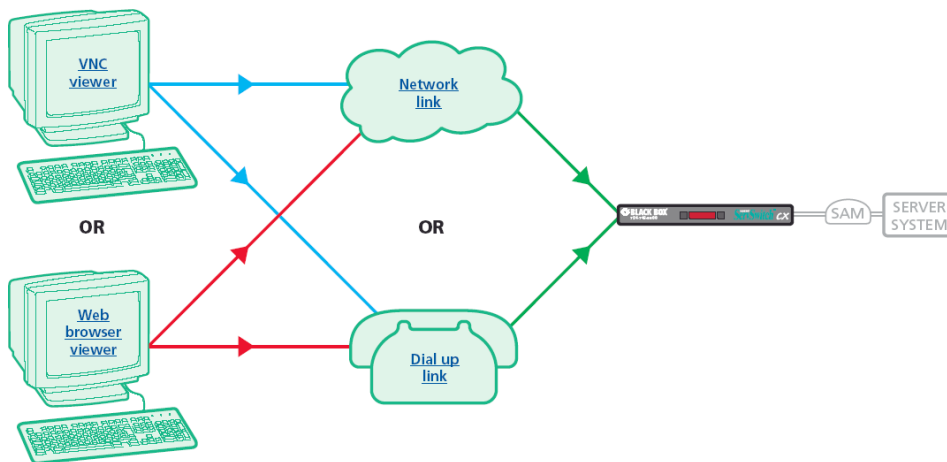
Power: 100–240 VAC, 50–60 Hz, autosensing, external power supply (PS649-R2)

Size:

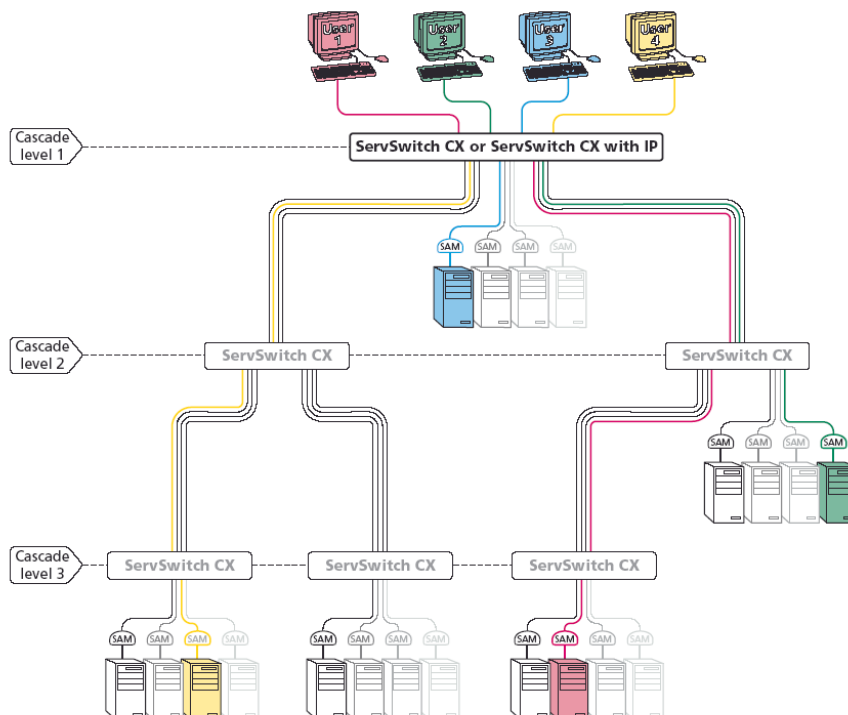
125H x 75W x 25D mm

# Application Diagram

## IP Access Options



## Cascaded System Setup



# Ordering Information

ServSwitch CX	Code #
(1) Analog Console Port + (4) Users	
(16) Servers	KV0416A
(24) Servers	KV0424A
ServSwitch CX with IP	Code #
(1) Analog Console Port + (4) Users	
(16) Servers	KV1416A
(24) Servers	KV1424A
For each server connection, you need...	
ServSwitch CX Server Access Module	Code #
PS/2®	KV1400A
PS/2 with Audio	KV1402A
USB	KV1401A
USB with Audio	KV1403A
Sun® with Audio	KV1404A
For each Cat X User connection, you need...	
ServSwitch CX Cat X Remote Module	Code #
PS/2®	KV04-REM
PS/2 with Audio	KV04A-REM
PS/2 with Audio and DeSkew	KV04AS-REM

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