



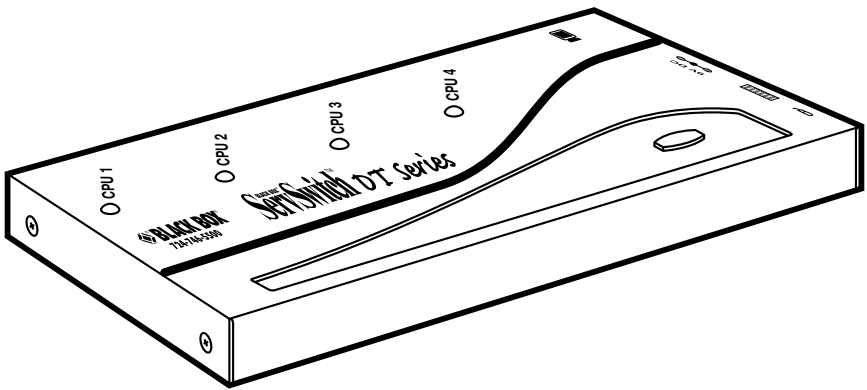
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1000 Park Drive • Lawrence, PA 15055-1018 • 724-746-5500 • Fax 724-746-0746



## 2- or 4-Port ServSwitch—DT Basic



**CUSTOMER  
SUPPORT  
INFORMATION**

Order toll-free in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)  
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**  
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018  
Web site: [www.blackbox.com](http://www.blackbox.com) • E-mail: [info@blackbox.com](mailto:info@blackbox.com)



**FEDERAL COMMUNICATIONS COMMISSION  
AND  
INDUSTRY CANADA  
RADIO FREQUENCY INTERFERENCE STATEMENTS**

**Class B Digital Device.** This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or telephone reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

**CAUTION**

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

To meet FCC requirements, shielded cables and power cords are required to connect this device to a personal computer or other Class B certified device.

*This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.*

*Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.*

### NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT

#### INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.

12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
  - A: El cable de poder o el contacto ha sido dañado; u
  - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
  - C: El aparato ha sido expuesto a la lluvia; o
  - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
  - E: El aparato ha sido tirado o su cubierta ha sido dañada.

## 2- OR 4-PORT SERVSWITCH—DT BASIC

### TRADEMARKS USED IN THIS MANUAL

BLACK BOX and the Double Diamond logo are registered trademarks, and ServSwitch is a trademark, of BB Technologies, Inc.

IBM and PS/2 are registered trademarks of International Business Machines Corporation.

Windows and Windows NT are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

*Any other trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.*

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# 1. Specifications

**System Requirements:** IBM® or compatible computers

**Supported Operating Systems:** Windows® 95/98/Mc/2000/XP and Windows NT®

**Resolution:** 1920 x 1440

**User Controls:** (1) port selection pushbutton

**Connectors:** Both: Shared monitor port: (1) HD15 female;

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

KV7000A: Computer: (2) VGA HD15 female;

KV7001A: Computer: (4) VGA HD15 female

**Indicators:** KV7000A: (2) Port LEDs;

KV7001A: (4) Port LEDs

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

**Power:** From the interface

**Size:** KV7000A: 0.8"H x 6.1"W x 2.8"D (2 x 15.5 x 7.1 cm);

KV7001A: 0.8"H x 7.1"W x 3.4"D (2 x 18 x 8.6 cm)

**Weight:** KV7000A: 0.9 lb. (0.4 kg);

KV7001A: 1 lb. (0.5 kg)

## 2. Overview

### 2.1 Introduction

The 2- or 4-Port ServSwitch™—DT Basic is a 2- or 4-port keyboard-video-mouse (KVM) switch. With its support for a PS/2® PC, this KVM switch allows you to access, control, and reboot two or four IBM compatible computers using only one PS/2 keyboard, video, and mouse. The ServSwitch works with Windows 95/98/Me/2000/XP and Windows NT.

Available models include:

- 2-Port ServSwitch—DT Basic (KV7000A)
- 4-Port ServSwitch—DT Basic (KV7001A)

### 2.2 What's Included

Your package should include the following items. If anything is missing or damaged, please contact Black Box at 724-746-5500.

- 2- or 4-Port ServSwitch—DT Basic
- This user's manual

### 2.3 What You'll Need to Supply

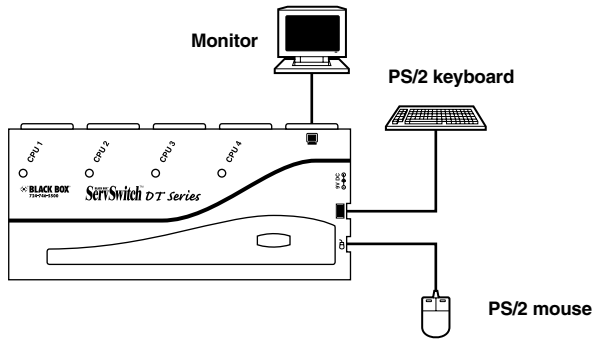
- PS/2 Computer Cable (EHN70001) for connection to PS/2 computers. These cables connect to PS/2 computers that have HD15 and 6-pin mini-DIN connectors. The cables are available in 6- and 10-foot (1.8- and 3-m) versions.

## 3. Installation

### CAUTION

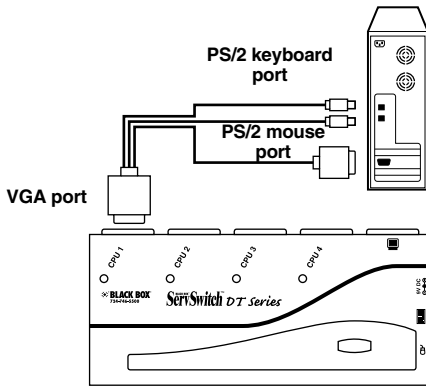
The computers that you are connecting to the ServSwitch must each have a PS/2 interface, so do NOT try to connect the KVM switch to these computers while the computers are powered on. If you do, the computers might not recognize your shared keyboard and mouse.

1. Make sure the computers' power, and power to all of their peripherals, is off.
2. Connect the PS/2 keyboard, mouse, and monitor to the ServSwitch. See Figure 3-1.



**Figure 3-1. Console connection.**

3. Connect each computer to the ServSwitch with a PS/2 Computer Cable (EHN700001). See Figure 3-2.



**Figure 3-2. Computer connection.**

4. Power on the ServSwitch.

## 4. Operation

There are two methods to control your ServSwitch: using the top-panel buttons or using a hotkey sequence. Both methods are described below.

### 4.1 Selecting Computers Using Top-Panel Buttons

The top-panel button lets you have direct control over KVM channel switching. Simply press this button to switch to another port. The corresponding top-panel LED (PC 1–PC 4) lights to indicate which port is selected.

### 4.2 Selecting Computers Using Keyboard Hotkey Commands (PS/2 Only)

A PS/2 keyboard hotkey sequence consists of three specific keystrokes:

<Left Control key> + <Left Control key> + <Command key>

Each keystroke within a hotkey sequence should be pressed within two seconds. Otherwise, the hotkey sequence will not be validated.

**Table 4-1. Hotkey commands.**

Command	Description
<Left-Ctrl><Left-Ctrl> 1	Switch to PC 1.
<Left-Ctrl><Left-Ctrl> 2	Switch to PC 2.
<Left-Ctrl><Left-Ctrl> 3	Switch to PC 3.
<Left-Ctrl><Left-Ctrl> 4	Switch to PC 4.
<Left-Ctrl><Left-Ctrl> F1	Begin AutoScan.
<Left-Ctrl><Left-Ctrl> F2	Begin manual scan.
<Left-Ctrl><Left-Ctrl> F3	Adjust scan rate to 3, 8, 15, or 30 seconds. 3 is the default.

**Table 4-1 (continued). Hotkey commands.**

<b>Command</b>	<b>Description</b>
<Left-Ctrl><Left-Ctrl> F4	Adjust characters per second rate to 10, 15, 20, or 30. 10 is the default.
Any key	Stop AutoScan.

# Appendix. Troubleshooting

## A.1 Calling Black Box

If you determine that your 2- or 4-Port ServSwitch—DT Basic is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box at 724-746-5500.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

## A.2 Shipping and Packaging

If you need to transport or ship your 2- or 4-Port ServSwitch—DT Basic:

- Package it carefully. We recommend that you use the original container.
- If you are shipping the 2- or 4-Port ServSwitch—DT Basic for repair, make sure you include everything that came in the original package. Before you ship, contact Black Box to get a Return Authorization (RA) number.