

Black Box KV0004A-R2

Black Box Emerald KM Switch with Glide & Switch Mouse Switching Instruction Manual

Model: KV0004A-R2

1. PRODUCT OVERVIEW

The Black Box Emerald KM Switch with Glide & Switch Mouse Switching (Model KV0004A-R2) allows a single user to access and control multiple computer systems and monitors using one keyboard and mouse. This device functions as an extended desktop switch, enabling seamless transitions between up to four connected PCs by simply moving the mouse cursor across screen borders. It supports simultaneous access to USB peripherals, including high-speed USB 2.0 devices.

This KM Switch integrates with the Black Box Agility IP-based KVM system, allowing it to interface with Agility receivers and switch Agility targets using a single keyboard and mouse. It is designed for environments requiring efficient multi-system control, such as command and control applications in finance, broadcasting, public safety, industrial, and defense sectors.

Key Features:

- Automatic channel switching with Glide and Switch Technology
- True USB emulation
- Optional LED Channel indicators
- Multiple Switching Options: Mouse, hotkeys, or front panel
- Compatibility with Windows & Mac OS (Linux may be supported in certain applications)

2. WHAT'S IN THE BOX

- KM Switch with Glide & Switch Mouse Switching (Model KV0004A-R2)
- Power Adapter and Power Cord
- Flash Upgrade Adapter
- 4 x Self-adhesive Feet

3. SETUP

3.1 Device Layout

Familiarize yourself with the ports on the KM Switch.



Image 1: Rear view of the Black Box Emerald KM Switch. From left to right, it features a power input (DC 12V), a user console port (USB-A), a USB 2.0 port, an optical audio port, four USB-B ports labeled 1-4 for connecting to computers, two USB-A ports (USB 1, USB 2) for switched peripherals, and an Ethernet port.

3.2 Connecting Computers and Peripherals

Follow these steps to connect your systems:

1. **Power Connection:** Connect the provided power adapter to the DC 12V input on the rear of the KM Switch and plug it into a power outlet.
2. **Computer Connections:** Use USB-B to USB-A cables (not included) to connect each computer's USB port to the corresponding USB-B input ports (labeled 1-4) on the rear of the KM Switch.
3. **Keyboard and Mouse:** Connect your keyboard and mouse to the dedicated USB-A ports (labeled 'KM' or 'USB 1', 'USB 2') on the rear of the KM Switch.
4. **Additional USB Peripherals:** For other USB devices (e.g., printers, scanners, USB drives), connect them to the available USB 2.0 ports on the rear of the switch.
5. **Audio Connections:** If using audio, connect your audio devices to the optical audio ports or 3.5mm audio jacks (if available on your specific model) on the switch and to your computers.

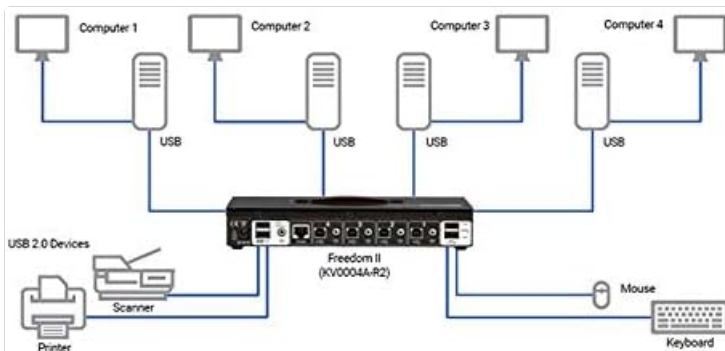


Image 2: Connection diagram for the Freedom II KM Switch (KV0004A-R2). It shows four computers connected via USB to the switch's PC input ports. A keyboard and mouse are connected to the console USB ports. A printer and scanner are connected to the USB 2.0 devices port. This setup allows sharing of peripherals across multiple computers.

4. OPERATING INSTRUCTIONS

4.1 Front Panel Controls

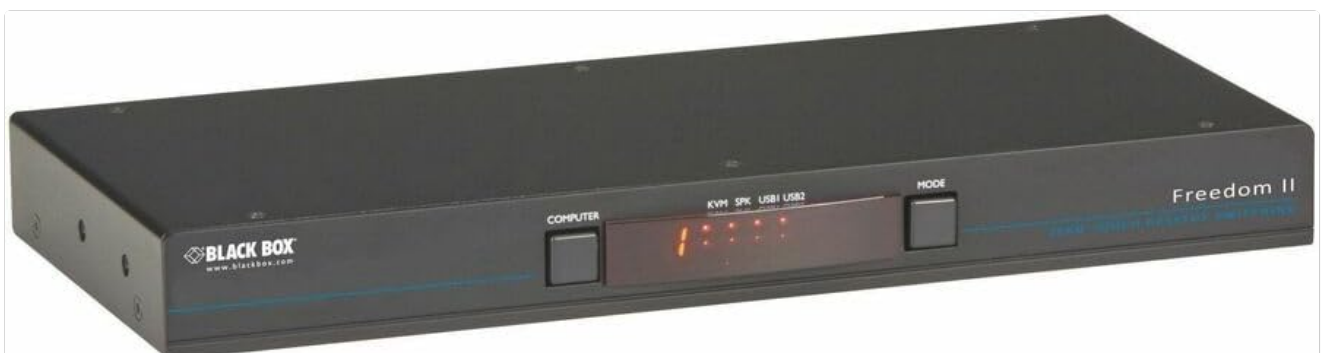


Image 3: Front view of the Black Box Emerald KM Switch. It features a 'COMPUTER' button on the left, a digital display showing the

active computer number, and a 'MODE' button on the right. LED indicators for KVM, SPK, USB1, and USB2 are also visible.

- **Computer Selection Button:** Press the 'COMPUTER' button on the front panel to cycle through the connected computers. The active computer number will be displayed on the digital screen.
- **Mode Button:** Use the 'MODE' button to adjust settings or switch between different operating modes, as detailed in the advanced configuration section (refer to the full product manual for specific mode functionalities).
- **LED Indicators:** The LEDs (KVM, SPK, USB1, USB2) indicate the status of the keyboard/mouse, speaker, and USB peripheral connections for the currently selected computer.

4.2 Glide & Switch Mouse Switching

The Glide & Switch technology allows you to seamlessly switch between computers by simply moving your mouse cursor across the borders of your monitors. Once configured, moving the mouse from one screen to an adjacent screen will automatically switch control to the computer associated with that screen.

4.3 Hotkey Switching

The KM Switch supports hotkey commands for quick switching between computers. Refer to the full product manual for a complete list of hotkey combinations and their functions. Hotkeys are OS independent.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid liquid cleaners or solvents.
- **Ventilation:** Ensure the device has adequate ventilation to prevent overheating. Do not block any ventilation openings.
- **Firmware Updates:** Periodically check the Black Box website for any available firmware updates for your model to ensure optimal performance and compatibility. Use the Flash Upgrade Adapter if an update is required.

6. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet.
- **No Keyboard/Mouse Response:** Verify that the keyboard and mouse are correctly plugged into the designated ports on the KM Switch. Check the USB cables connecting the switch to the computers. Try restarting the computers and the switch.
- **Peripherals Not Recognized:** Ensure all USB devices are properly connected. If using high-power USB devices, an external 5V power supply may be required for stability (check your specific model for a dedicated power input for peripherals).
- **Switching Issues:** Confirm that the Glide & Switch software (if applicable) is correctly installed and configured on all connected computers. If using hotkeys, ensure the correct combinations are being used.
- **Intermittent Connectivity:** Check all cable connections for looseness or damage. Ensure no other devices are causing interference.

7. SPECIFICATIONS

Brand	Black Box
Series	Freedom II

Model Number	KV0004A-R2
Operating System Compatibility	Windows, Mac OS (Linux may be supported in certain applications)
Item Weight	3.7 pounds
Product Dimensions (LxWxH)	13.5 x 12.6 x 3.9 inches
Power Source	Corded Electric
ASIN	B011OOD5Z2
Date First Available	July 15, 2015

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Black Box documentation included with your product or visit the Black Box website. Specific warranty terms and support options may vary by region and purchase date.