

ATEN CS1744

ATEN CS1744 4-Port USB Dual-View KVMP Switch User Manual

Model: CS1744

1. INTRODUCTION

The ATEN CS1744 is a 4-Port USB Dual-View KVMP Switch designed to allow a single USB keyboard, USB mouse, speakers, microphone, and two displays to control four dual-display computers. This device offers efficient management of multiple systems, making it ideal for environments requiring control over several computers with dual monitor setups. Key features include a built-in 2-port USB Hub, multiplatform support (PC, Mac, Sun, Linux), speaker and microphone support, and flexible switching capabilities. The CS1744 ensures error-free booting with keyboard and mouse emulation and provides superior video quality up to 2048 x 1536 resolution.

2. PACKAGE CONTENTS

Verify that all components are present in your package:

- 1x 4-Port USB Dual-View KVMP™ Switch (CS1744)
- 4x 2L-5202A-1 KVM Cable (Audio/Video)
- 4x 2L-5202U USB KVM Cables
- 1x UC20KMZ-A-11 USB-to-PS/2 Converter
- 1x Firmware Upgrade Cable
- 1x User Instructions (this manual)

3. PRODUCT OVERVIEW

Familiarize yourself with the front and rear panels of the ATEN CS1744 KVMP Switch.

Front Panel



Figure 3.1: Front Panel of the ATEN CS1744. This view displays the port selection buttons (1-4) with corresponding LEDs indicating active ports, and a USB port for peripheral connection.

Rear Panel



Figure 3.2: Rear Panel of the ATEN CS1744. This image shows the power input, firmware upgrade port, console ports (USB keyboard, USB mouse, audio in/out, dual VGA monitor outputs), and four sets of CPU ports (dual VGA, audio in/out, USB) for connecting to four different computers.



Figure 3.3: Angled Rear View of the ATEN CS1744. This perspective provides a clearer view of the port labels and layout on the rear panel, including the console and CPU connection sections.

Connection Diagram



Figure 3.4: Connection Diagram for the ATEN CS1744. This diagram shows the front and rear panels with illustrative connections for a console (keyboard, mouse, dual monitors, speakers, microphone, printer) and four computers (Windows, Mac, Linux, Sun), each with dual VGA outputs, audio, and USB connections to the switch.

4. SETUP AND INSTALLATION

Follow these steps to set up your ATEN CS1744 KVM Switch:

- 1. Power Off All Devices:** Ensure all computers, monitors, and the CS1744 switch are powered off before beginning installation.
- 2. Connect Console Devices:**
 - Connect your USB keyboard and USB mouse to the designated USB ports on the console side of the CS1744 rear panel.
 - Connect your two monitors to the dual VGA ports on the console side of the CS1744 rear panel.
 - Connect your speakers and microphone to the corresponding audio jacks on the console side.
- 3. Connect Computers:** For each computer you wish to control (up to four):
 - Use the provided KVM cables (2L-5202A-1 and 2L-5202U) to connect the computer's dual VGA outputs, USB port, speaker output, and microphone input to the corresponding CPU port on the CS1744. Ensure you connect

both VGA cables for dual-view functionality.

4. **Connect USB Peripherals (Optional):** If you have additional USB peripherals (e.g., printer, scanner), connect them to the 2-port USB Hub on the CS1744.
5. **Power On:** Connect the power adapter to the CS1744 and then plug it into a power outlet. Power on the CS1744, then power on your monitors, and finally power on the connected computers.

The CS1744 will automatically detect the connected computers. You can now switch between them using the front panel buttons or hotkeys.

5. OPERATING INSTRUCTIONS

The ATEN CS1744 offers multiple methods for switching between connected computers and managing functions.

Switching Between Computers

- **Front Panel Pushbuttons:** Press the corresponding port selection button (1-4) on the front panel of the CS1744 to switch to the desired computer. The LED indicators will show the currently active port.
- **Hotkeys:** The CS1744 supports hotkey combinations for quick switching. Refer to the detailed hotkey commands in the full user manual for specific sequences (e.g., Scroll Lock + Scroll Lock + [Port Number]).

Independent Switching

The CS1744 allows for independent switching of PC, peripheral, and audio functions. This means you can, for example, be viewing one computer's display while listening to audio from another, or using a USB peripheral connected to a third.

Buzzer Control

The built-in buzzer provides audible confirmation for certain operations. You can toggle the buzzer On/Off using a specific hotkey combination (refer to the full manual for details).

Keyboard and Mouse Emulation

The CS1744 features keyboard and mouse emulation, ensuring error-free booting for all connected computers. It also supports SUN/Mac keyboard emulation for PC keyboards, and native SUN/Mac keyboards work with their respective computers.

6. MAINTENANCE

To ensure optimal performance and longevity of your ATEN CS1744 KVMP Switch, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Avoid using liquid or aerosol cleaners, as they may damage the device.
- **Environment:** Operate the switch in a well-ventilated area, away from direct sunlight, excessive heat, moisture, and dust.
- **Firmware Upgrades:** The CS1744 is firmware upgradeable. Check the ATEN official website periodically for the latest firmware versions and instructions to ensure compatibility and access to new features. Use the provided Firmware Upgrade Cable for this process.
- **Cable Management:** Ensure all cables are securely connected and organized to prevent accidental disconnections or damage.

7. TROUBLESHOOTING

If you encounter issues with your ATEN CS1744, refer to the following common troubleshooting steps:

- **No Display on Monitor:**

- Ensure all video cables are securely connected between the computers, the CS1744, and the monitors.
- Verify that the monitors are powered on and set to the correct input source.
- Try restarting the connected computer and the CS1744.
- Check the video resolution settings on the computer; ensure it is supported by the CS1744 (up to 2048 x 1536).

- **Keyboard or Mouse Not Responding:**

- Ensure the USB keyboard and mouse are connected to the correct console ports on the CS1744.
- Verify the USB KVM cables are properly connected between the CS1744 and the computers.
- Try unplugging and re-plugging the keyboard/mouse.
- If using a USB-to-PS/2 converter, ensure it is correctly installed.
- Restart the CS1744 and the affected computer.

- **Audio Issues:**

- Check all audio cables for secure connections.
- Ensure the audio output on the computer and the volume on your speakers are not muted or set too low.
- Verify that the correct audio source is selected if using independent audio switching.

- **Switching Problems:**

- Ensure the CS1744 has power.
- If using hotkeys, ensure the correct sequence is being entered.
- Try switching using the front panel pushbuttons.

If problems persist, consult the comprehensive user manual available on the ATEN website or contact ATEN technical support.

8. SPECIFICATIONS

Model Number	CS1744
Brand	ATEN
Ports	4 x Computer Ports, 1 x Console Port
Console Connectors	2 x USB Type A (Keyboard, Mouse), 2 x HDB-15 (VGA), 2 x Audio Jacks (Speaker, Mic)
KVM (CPU) Connectors	4 x USB Type B, 8 x HDB-15 (VGA), 8 x Audio Jacks (Speaker, Mic)
USB Hub	2 x USB Type A (on front panel)
Video Resolution	Up to 2048 x 1536; DDC2B
Multiplatform Support	PC (Windows, Linux), Mac, Sun
Dimensions (L x W x H)	27 x 8.5 x 5.5 cm (10.63 x 3.35 x 2.17 inches)
Weight	2.69 kg (5.93 lbs)
Material	Plastic
Color	White

9. WARRANTY AND SUPPORT

The ATEN CS1744 KVMP Switch comes with a **24-month manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use during the warranty period.

For technical support, further documentation, or warranty claims, please visit the official ATEN website or contact your local ATEN dealer. Ensure you have your product model number (CS1744) and purchase information ready when seeking support.