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ATEN CS682

ATEN CS682 2-Port USB DVI/Audio Cable KVM Switch User Manual

MODEL: CS682

1. Product Overview

The ATEN CS682 is a 2-Port USB DVI/Audio Cable KVM Switch designed to control two USB computers from a single DVI video console. It integrates DVI functionality, USB 2.0 peripheral sharing, and support for 2.1 surround sound systems, providing a comprehensive solution for managing multiple computers efficiently.
Key features include:

- **Superior Video Quality:** Supports resolutions up to 1920 x 1200 @ 60 Hz, fully compliant with DVI-D specifications.
- **Audio-Enabled:** Provides full bass response for 2.1 channel sound systems.
- **Flexible Computer Selection:** Switch between computers using a remote port selector, hotkeys, or a USB mouse (double-click scroll wheel).
- **Independent Switching:** Allows separate control of KVM focus and audio focus between computers.
- **Enhanced Video DynaSync:** Stores console monitor's EDID to optimize display resolution.
- **Power-On Detection:** Automatically switches to the other powered-on computer if one is turned off.
- **Multiplatform Support:** Compatible with Windows 2000/XP/Vista, Mac, Sun, and Linux operating systems.

2. Setup and Installation

Follow these steps to properly set up your ATEN CS682 KVM Switch:

1. **Power Off All Devices:** Ensure both computers and the monitor are powered off before beginning installation.
2. **Connect the KVM Switch:**
    - Connect the DVI-D cables from the KVM switch to the DVI-D ports on your computers.
    - Connect the USB cables from the KVM switch to the USB ports on your computers.
    - Connect the audio cables (speaker and microphone) from the KVM switch to the corresponding audio ports on your computers.

3. **Connect Console Devices:**
    - Connect your DVI monitor to the DVI-D port on the KVM switch.
    - Connect your USB keyboard and USB mouse to the designated USB ports on the KVM switch.
    - Connect your speakers and microphone to the audio output and input jacks on the KVM switch.
4. **Connect Remote Port Selector:** Plug the remote port selector into its dedicated port on the KVM switch. This allows for convenient switching from your desktop.
5. **Power On Devices:** First, power on your monitor, then the KVM switch (if it has a separate power adapter, though typically USB powered), and finally, power on your computers. The KVM switch will automatically detect the first powered-on computer.



Figure 2.1: The ATEN CS682 KVM Switch showing its various cable connections for DVI, USB, and audio, along with the remote port selector.

3. Operating Instructions

The ATEN CS682 offers multiple methods for switching between connected computers:

- **Remote Port Selector:** Press the button on the remote port selector to cycle between connected computers. The indicator lights on the selector will show which computer is currently active.
- **Hotkeys:** Use specific key combinations on your keyboard to switch ports. The default hotkey for switching is typically a double-tap of the Scroll Lock key or Control key (configurable). Refer to the full user manual for a complete list of hotkey functions, including independent KVM and audio switching.
- **USB Mouse Switching:** Double-click the scroll wheel of your USB mouse to switch to the next active port. This feature can be enabled or disabled.

Independent Switching: The CS682 allows you to switch the KVM (keyboard, video, mouse) focus to one computer

while the audio focus remains on another. This is useful for listening to music from one computer while working on another. Consult the detailed hotkey section in the comprehensive manual for specific commands.
Video DynaSync: This technology ensures optimal display resolution by storing the console monitor's Extended Display Identification Data (EDID). This helps prevent display issues when switching between computers or during boot-up.
Power-On Detection: If one of the connected computers is powered off, the KVM switch will automatically detect this and switch to the other powered-on computer, ensuring continuous operation.

4. Maintenance

To ensure the longevity and optimal performance of your ATEN CS682 KVM Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols, which may damage the unit.
- **Environment:** Operate the KVM switch in a clean, dry environment, away from direct sunlight, excessive heat, and moisture. Ensure adequate ventilation around the unit.
- **Cable Management:** Keep cables organized and untangled to prevent damage and ensure reliable connections. Avoid bending cables sharply.
- **Firmware Updates:** Periodically check the ATEN official website for firmware updates for the CS682 model. Keeping the firmware updated can improve compatibility, performance, and resolve potential issues. It is highly recommended to update the KVM with the latest firmware before initial use.

5. Troubleshooting

This section addresses common issues you might encounter with the ATEN CS682 KVM Switch. For more detailed troubleshooting, refer to the complete product manual.

Problem	Possible Cause / Solution
No video display or "sparkle" on screen.	• Ensure DVI cables are securely connected at both ends (KVM and computer/monitor). • Verify that the correct input source is selected on your monitor. • Enable **Video DynaSync** feature (if disabled) to optimize display resolution. • Check for potential EDID corruption. Disconnecting and reconnecting DVI cables can sometimes resolve this, or a firmware update may be necessary. • Test with different DVI cables or directly connect the monitor to the computer to rule out cable or monitor issues.
USB mouse or keyboard not working correctly (e.g., Logitech devices).	• **Disable Mouse Emulation:** For certain advanced mice (e.g., Logitech with SetPoint software), disabling mouse emulation on the KVM switch can resolve compatibility issues. This often requires a wired keyboard to access the KVM's configuration menu. • Ensure the USB cables are firmly connected. • Try connecting the mouse/keyboard to different USB ports on the KVM. • Update the KVM's firmware to the latest version.

Problem	Possible Cause / Solution
Hotkeys not responding.	• Ensure the KVM is powered on and the active computer is running. • Verify that the correct hotkey combination is being used. • If mouse emulation is disabled, hotkeys might not work with certain wireless keyboards. A wired keyboard may be required for hotkey functionality. • Check if the hotkey function has been remapped (e.g., from Scroll Lock to Control key).
Audio issues (no sound, distorted audio).	• Ensure audio cables are correctly connected to the KVM and computer/speakers. • Check volume levels on both the computer and speakers. • Verify that the audio focus is on the desired computer (independent switching).

Important Note: Always refer to the comprehensive ATEN CS682 user manual for detailed instructions, advanced configurations, and a full list of hotkey commands. It is also advisable to have a wired keyboard available for initial setup and troubleshooting, especially when dealing with mouse emulation settings.

6. Specifications

Feature	Detail
Model Number	CS682
Brand	ATEN
Operation Mode	Automatically, Off
Connector Type	USB
Item Dimensions (L x W x H)	4.37 x 3.07 x 0.98 inches
Circuit Type	2-way
Contact Material	Copper
International Protection Rating	IP54
Number of Positions	1
Control Method	Remote
Connectivity Protocol	USB
Color	Black
Wattage	3.05 watts
Item Weight	1.08 pounds
Manufacturer	ATEN TECHNOLOGIES
Date First Available	February 21, 2008
Country of Origin	Taiwan

7. Warranty and Support

ATEN is committed to providing high-quality connectivity and management solutions. We offer comprehensive support and service for our products.

- **Technical Support:** Free technical support is available. ATEN aims to respond to customer inquiries within 4 hours.
- **Repair and RMA Service:** Localized repair centers are available for Return Merchandise Authorization (RMA) services.
- **Extended Warranty:** Extended warranty service and variable value-added service packages are available for enhanced product protection.

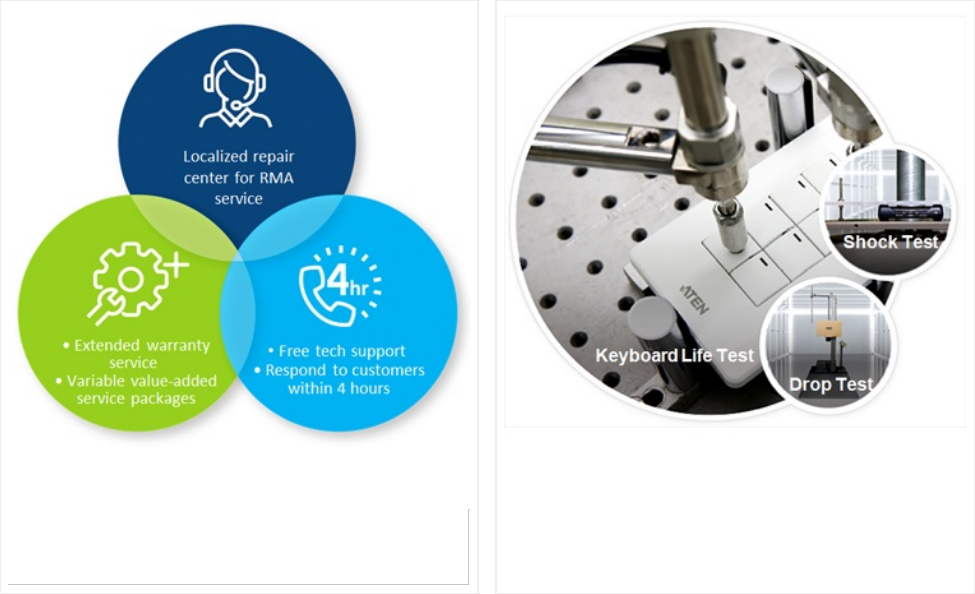


Figure 7.1: ATEN's commitment to quality and customer support, including rigorous testing and comprehensive service offerings.

For further assistance, product registration, or to explore additional ATEN products, please visit the official ATEN website or their Amazon Brand Store.

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