

1-Local/Remote Share Access Single Port 4K DisplayPort KVM over IP Switch

CN9950

The CN9950 KVM over IP Switch allows remote access of digital video, audio and virtual media of a PC or workstation, supporting DisplayPort resolution up to DCI 4K (4096x2160) @ 30Hz. Built with advanced FPGA graphics processor, the CN9950 offers better image and video quality to enhance user experience, while also meeting the RS-232 standards for serial control.

The CN9950 features 5-pin terminal relay/DI block with online/offline detection of connected serial devices (including terminal blocks) that supports to automatically send event notifications when the devices are offline (e.g. power failure) for device status monitoring. The relay terminal enables the remote reboot function rather than hardware-based remote access, and the DI terminal enables the alarm detection with sensor when the local PC rush is happened. In addition, the 4K DisplayPort KVM over IP Switch is equipped with dual LAN and dual power functionality to keep operation in the server room smooth and efficient, and also to prevent the server failure. When the abnormal events occurred, it is able to support instant notification of critical system events via email, SNMP trap and Syslog. The CN9950's dual power operation is for back-up with its DC Jacks design providing the stable connecting latch.

As the easy-to-use interface, the Web Client Viewer natively installed with CN9950 provides the browser-based and AP GUIs without additional installation for software applications to activate the remote access and management. With multi-user privilege operating management, it offers a unified Multilanguage interface to minimize user training time and increase productivity.

The CN9950 is ideal for target applications like data center, server room/computer room management applied in industries with requirement for high-quality images and multitasking, such as global organizations and companies with several office locations by bridging local and remote workplaces.



Front View



Rear View



Features

Hardware

- A mini USB port in the front panel can serve as a Virtual Media USB port or a Laptop USB Console (LUC) port
 - Compact and slim design for space utility optimization
 - Supports 5-pin Relay/DI control Terminal for environment monitoring and control
 - Pixel clear DP compatible with DP 1.2 up to DCI 4K @30Hz
 - Provides a FPGA graphics processor for better image quality and enhanced fps (frames per second) throughput for crisp video display response
 - Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
 - Dual power supply and dual LAN for backup
 - Local/Remote Share Mode conveniently grants shared or exclusive console privilege
 - Provides over IP capability to DisplayPort KVM switches without over IP functionality*
 - Access the CN9950 via a built-in serial viewer, or via third-party software (such as PuTTY) for Telnet and SSH sessions
- Note: * Compatible KVM Switch: ATEN DisplayPort KVM Switches

Management

- Complies to the RS-232 standards for serial control
- Up to 64 user accounts – up to 32 users can simultaneously share control
- Console access right management
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Event Logging – the CN9950 can record all events that take place on it and write them to a searchable database
- Supports instant notification of critical system events via email, SNMP trap and Syslog
- Firmware upgradable via remote access
- Access the CN9950 via a built-in serial viewer, or via third-party software (such as PuTTY) for Telnet and SSH sessions
- Out of Band support – access the CN9950 through its serial port using a dial-up connection
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Local/Remote Share Mode conveniently grants shared or exclusive console privilege
- DDNS – allows mapping of a dynamic IP address assigned by a DHCP server to a host name
- Supports export/import of user account and configuration settings
- Supports permission-controlled browser operation
- Supports IPv6

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multilanguage interface to minimize user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multibrowser support (IE, Mozilla, Firefox, Safari, Opera, Netscape)
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package requirements
- Full-screen or sizable and scalable Virtual Remote Desktop
- Magic Panel with configurable function for quick launch

Advanced Security

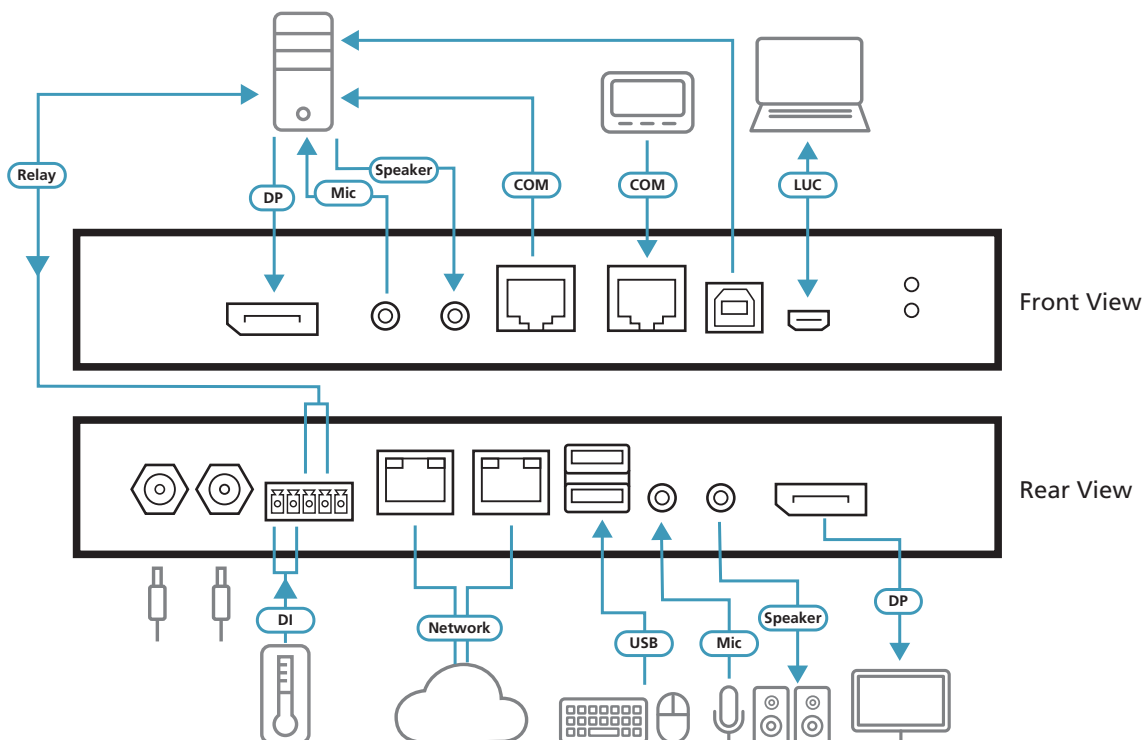
- Smart Card/CAC Reader support
- External authentication support: RADIUS, LDAP, LDAPS and MS Active Directory
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates to secure users logging in from browsers
- Supports IP/MAC Filter
- Supports password protection
- Private CA

Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB-enabled servers at OS and BIOS level
- Supports USB 1.1 and USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, folders and ISO images

Virtual Remote Desktop

- Video quality and video tolerance can be adjusted to optimize data transfer speed; monochrome color depth, threshold and noise settings can be adjusted for compression of the data bandwidth in low bandwidth situations
- Full-screen video display or scalable video display
- Message Board for communication among remote users
- On-screen keyboard with multilanguage support
- Mouse DynaSync™ – automatically synchronizes the local and remote mouse movements
- Supports Exit Macros
- BIOS-level access



Highlights

Superior Visual Quality



DCI 4K @30Hz DisplayPort Resolution

The CN9950 allows remote access of digital video, audio and virtual media of a PC or workstation, supporting DisplayPort resolution up to DCI 4K (4096x2160) @ 30Hz. It is equipped with FPGA graphics processor, offering better image and video quality to enhance user experience.

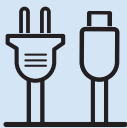
Security Guarded



Security Guarded Remote Access, Wherever You Are

The CN9950 provides a direct BIOS-level connection to the dedicated PC/server to allow instant remote access from different locations without requiring any extra software installation or configuration.

LAN/Power Redundancy



Dual LAN / Power Redundancy

The CN9950 is equipped with dual LAN / power connectivity that strengthens system reliability by maintaining uninterrupted operations during any contingency. Power connectors are fastened with screw locks to ensure robust power failover, and power status can be identified easily via the LED indicators.

Virtual Media



Virtual Media Support for Prompt System Update

The CN9950 enables authorized virtual media support to run file applications and software installations over the network, and this is especially useful for diagnosing and troubleshooting network and BIOS issues, as well as performing software updates and patches to keep your system up-to-date.

DI and Relay Connectivity



DI and Relay Connectivity for Contingency Approach

The CN9950 comes built in with a 5-pin control terminal for a DI input connection for system alerts (from a thermometer, humidity/door sensor), as well as a relay terminal for a virtual power-on feature that remotely reboots a hung or crashed PC/server to ensure constant system availability for mission-critical applications.

Specifications

CN9950	
Connectors	
Console Ports	2 x USB Type A Female (White) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (white) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
Virtual Media	1 x USB Mini-B Female
Power	2 x DC Jack
Serial	2 x RJ-45 Female
Control	1x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard / Mouse	USB, PS/2
LEDs	
Power	2 (Green)
Video	Local console - 4096 x 2160 @ 30 Hz Remote console - 4096 x 2160
Power Consumption	DC5V:9.76W:50BTU
Environmental	
Operating Temperature	0 – 50 °C (CN9950) 0 – 40°C (Power Adapter)
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.85 kg
Dimensions (L x W x H)	20.00 x 14.93 x 2.85 cm

ATEN International Co., Ltd.

3F, No.125, Sec. 2, Datung Rd., Sijhih District., New Taipei City 221, Taiwan
Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
www.aten.com E-mail: marketing@aten.com

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