

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

CN9850 / CN9950

The CN9850 / CN9950 KVM over IP Switch allows for remote access to video, audio, and virtual media of a PC or workstation, and features HDMI / DisplayPort high-definition video with resolutions of up to 4K DCI (4096 x 2160) @ 30 Hz at both the local and remote consoles. Built with an advanced FPGA graphics processor, the CN9850 / CN9950 offers better image and video quality to enhance the user experience, while also meeting the RS-232 standards for serial control.

For user-friendly operation, a mini USB port on the front panel is designed as a Laptop USB Console (LUC) port for connection to a laptop, which allows the user to access the PC / server for easy routine maintenance without requiring an additional monitor, keyboard, and mouse.

To seamless stable connectivity, the CN9850 / CN9950 is equipped with dual LAN and dual power functionality to keep operations in the server room smooth and efficient. Its power status detection function automatically sends out event notifications when the devices are offline (e.g. power failure) for device status monitoring. Moreover, the CN9850 / CN9950 features a 5-pin Relay / DI (digital input) terminal block allowing for remote reboot of the local server, and receiving digital input from a connected input/alarm device for notification of critical events.

For ease of remote management, the CN9850 / CN9950 WebClient Viewer supports remote desktop access without additional software applications. The HDMI / DisplayPort 4K KVM over IP Switch provides a web-based GUI for remote access and management. In addition, a unified multi-language interface can minimize user training time and increase productivity.

The CN9850 / CN9950 is ideal for data centers, server rooms, and control rooms for remote access management in industries with requirements for high-quality images and multitasking, such as global organizations and companies with several office locations where it can function as a bridge between local and remote workplaces.



CN9850



CN9950



CN9850 Front View



CN9850 Rear View



CN9950 Front View



CN9950 Rear View



Features

Hardware

- Supports HDMI / DisplayPort resolution up to 4K DCI (4096 x 2160) @ 30 Hz*
- 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 Terminal for environment monitoring and remotely reboot control
- Provides an FPGA graphics processor for better image quality
- Two 10 / 100 / 1000 Mbps NICs for redundant LAN or two IP operation
- Dual power supply to ensure seamless connectivity
- Provides over IP capability to KVM switches without over IP functionality
- Allows access to the CN9850 / CN9950 via a built-in serial viewer, or via third-party software (such as PuTTY) for Telnet and SSH sessions

Note: Audio is not supported by CN9850 / CN9950's HDMI / DisplayPort and can only be transmitted through its 3.5 mm audio ports.

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 CN9850 / 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
- Out of Band support — access the CN9850 / CN9950 through its serial port using a dial-up connection
- Local / Remote Share Mode conveniently grants shared or exclusive console privilege
- Port Share Mode allows multiple users to gain access to a server simultaneously
- 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
- Integration with ATEN CC2000 Management Software
- Integration with ATEN CCVSR Video Session Recording Software

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface to minimize user training time and increase productivity
- Multiplatform client support (Windows, Mac, Linux, Sun)
- Multibrowser support (IE, Firefox, Safari, Opera, Chrome)
- 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

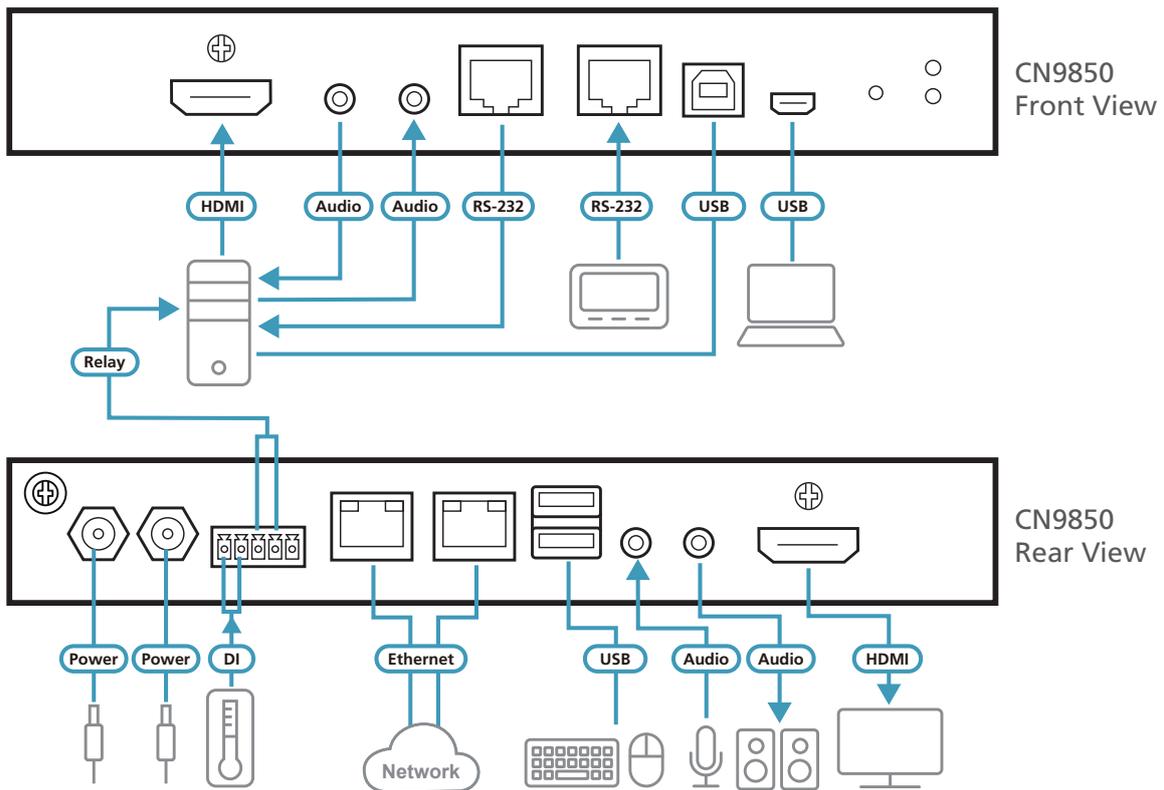
- Smart Card / CAC Reader support
- External authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates to secure users logging in from browsers
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or Random for independent keyboard / mouse, video, and virtual media data encryption
- Supports IP / MAC Filter
- Supports password protection
- Private CA

Virtual Media

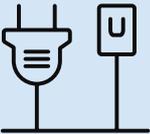
- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB-enabled servers at OS and BIOS level
- Supports USB 2.0 DVD / CD drives, USB mass storage devices, PC hard drives, folders, and ISO images

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 multi-language support
- Mouse DynaSync™ — automatically synchronizes the local and remote mouse movements
- Supports Exit Macros
- BIOS-level access



Highlights

<p>Superior Visual Quality</p> 	<p>4K DCI @ 30 Hz HDMI / DisplayPort Resolution</p> <p>The CN9850 / CN9950 allows for remote access to digital video, audio, and virtual media of a PC or workstation, supporting HDMI / DisplayPort resolution up to 4K DCI (4096 x 2160) @ 30 Hz. It is equipped with an FPGA graphics processor, offering better image and video quality to enhance the user experience.</p>
<p>Security Guarded</p> 	<p>Security Guarded Remote Access, Wherever You Are</p> <p>The CN9850 / 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.</p>
<p>LAN/Power Redundancy</p> 	<p>Dual LAN / Power Redundancy</p> <p>The CN9850 / CN9950 is equipped with dual LAN / power connectivity that strengthens system reliability by maintaining uninterrupted operations adaptable to various circumstances. Power connectors are fastened with screw locks to ensure robust power failover, and power status can be identified easily via the LED indicators.</p>
<p>Virtual Media</p> 	<p>Virtual Media Support for Prompt System Update</p> <p>The CN9850 / 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.</p>
<p>DI and Relay Connectivity</p> 	<p>DI and Relay Connectivity for Contingency Approach</p> <p>The CN9850 / CN9950 comes 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 power-on feature that remotely reboots a hung or crashed PC/server to ensure constant system availability for mission-critical applications.</p>

Specifications

	CN9850	CN9950
Connectors		
Console Ports	2 x USB Type-A Female (White) 1 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	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 HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	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	
Power	2 x DC Jack	
Serial	2 x RJ-45 Female	
Control	1x PS/2 Female	
Laptop USB Console (LUC) Port	1 x USB Mini-B Female	
Switches		
Reset	1 x Semi-recessed pushbutton (Black)	
Emulation		
Keyboard / Mouse	USB	
LEDs		
Power	2 (Green)	
Video	Local console - 4096 x 2160 @ 30 Hz Remote console - 4096 x 2160	
Power Consumption	DC5V:10.07W	DC5V:9.76W
Environmental		
Operating Temperature	0 – 50 °C (CN9850 / CN9950) 0 – 40 °C (Power Adapter)	
Storage Temperature	-20 – 60 °C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.84 kg	0.85 kg
Dimensions (L x W x H)	20.00 x 15.05 x 2.84 cm	20.00 x 14.93 x 2.85 cm

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