

RCMHD101U

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



The RCMHD101U Single Port HDMI KVM over IP Switch is a KVM device exclusively designed for production line applications, which can grant the video, audio, mouse & keyboard, and [virtual media](#) access of a workstation at a production line to a local and remote consoles for convenient management. It also supports microphone and speakers for both local and remote consoles.

Integrated with ATEN's exclusive RCM API and an FPGA graphics processor supporting up to 4K DCI resolution (4096 x 2160 @ 30 Hz), the KVM over IP Switch delivers optimal OCR functionality and customizable system integration and automation. Additionally, by using the [RCMMS](#) (RCM Management Software), an intuitive, centralized management platform featuring Panel Array, users can manage, monitor, and control up to hundreds of RCM devices simultaneously.

For enhancing its production line application capabilities, RCMHD101U features USB / RS-232 touch panel support, OSD title-bar notification, and local console priority. Furthermore, with the ATEN Access Control Box ([2XRT-0015G](#)) installed, remote access to the RCMHD101U can be enabled or disabled on site as required.

For user-friendly operation, a mini USB port on the front panel is designed as a Laptop USB Console (LUC) port. By simply connecting a laptop to the LUC port, users can access any computer connected to the switch for easy on-site management. That means no additional monitor, keyboard and mouse is required locally for routine maintenance. Additionally, the RCMHD101U [Virtual Media](#) function allows a user to perform diagnostic testing, file transfers, or apply OS / applications updates and patches from a remote console.

To ensure seamless connectivity, the RCMHD101U is equipped with dual LAN and dual power functionality for keeping operation at the production line smooth and efficient.

All in all, the RCMHD101U provides a complete system management across different facilities reduces the number of operators required on site to minimize space requirement while maximizing personnel efficiency. With its over-IP access eliminating the need to physically move legacy KVM solution to each malfunctioning unit, providing users with the ability to capture the device display screen data for data collection and direct OCR analysis, and using APIs for software integration applications, it is an outstanding solution for high-tech production lines requiring durable and reliable over-IP server management.



Features

• Exclusive RCM functionalities

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports [RCMMS](#) for customizable Panel Array for operators to monitor all machines simultaneously
- Supports exclusively integrated RCM APIs with various functions, such as OCR, for system integrators
- OSD title bar notification – instantly notifies users upon urgent events
- Local console priority – gives the local console the priority over remote consoles to access the connected server

• Hardware

- Compact and slim design for space usage optimization
 - Provides an FPGA graphics processor for better image quality
 - RS-232 DTE / DCE standards compliant for serial control
 - Provides over-IP capability to HDMI KVM switches that do not have built-in over-IP functionality*
 - Local console provides USB keyboard and mouse support**
 - A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
 - Two 10 / 100 / 1000 Mbps NICs for redundant LAN or dual IP operation
 - Dual Power Supply for power backup
 - Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
 - Virtual Media support
 - High video resolution – up to 4096 x 2160 @ 30 Hz for both local and remote consoles
 - Audio support – microphone and speakers are supported on both local and remote consoles***
- Note:

*When connecting to KVM switches, certain features of the RCMHD101U may not be supported (e.g. some switches do not support [virtual media](#)).

**Using keyboards / mice with OS-dependent functions not designed for Windows may have compatibility issues. Windows may have compatibility issues.

***Audio is not supported by RCMHD101U's HDMI and can only be transmitted through its 3.5 mm audio ports.

• Management

- Up to 64 user accounts – up to 32 users can simultaneously share control
Note: As more users connect to the device, the bandwidth allocated to each user decreases.
- Console access right management
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Event Logging – the RCMHD101U can record all events 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 via a built-in serial viewer, or via third-party software (such as PuTTY) for Telnet and SSH sessions
- Out-of-band support – accessible 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
- Integration with ATEN [CCVSR](#) Video Session Recording Software
- Supports ATEN KVM over IP Console Station ([KA8270](#) / [KA8280](#) / [KA8278](#) / [KA8288](#))
- 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
- Browser Access Permission – extra security feature to allow / disallow browser http / https access
- 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, Linux, Sun)
- Multibrowser support (IE, 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

- 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 1.1 and USB 2.0 DVD / CD drives, USB mass storage devices, PC hard drives, folders and ISO images

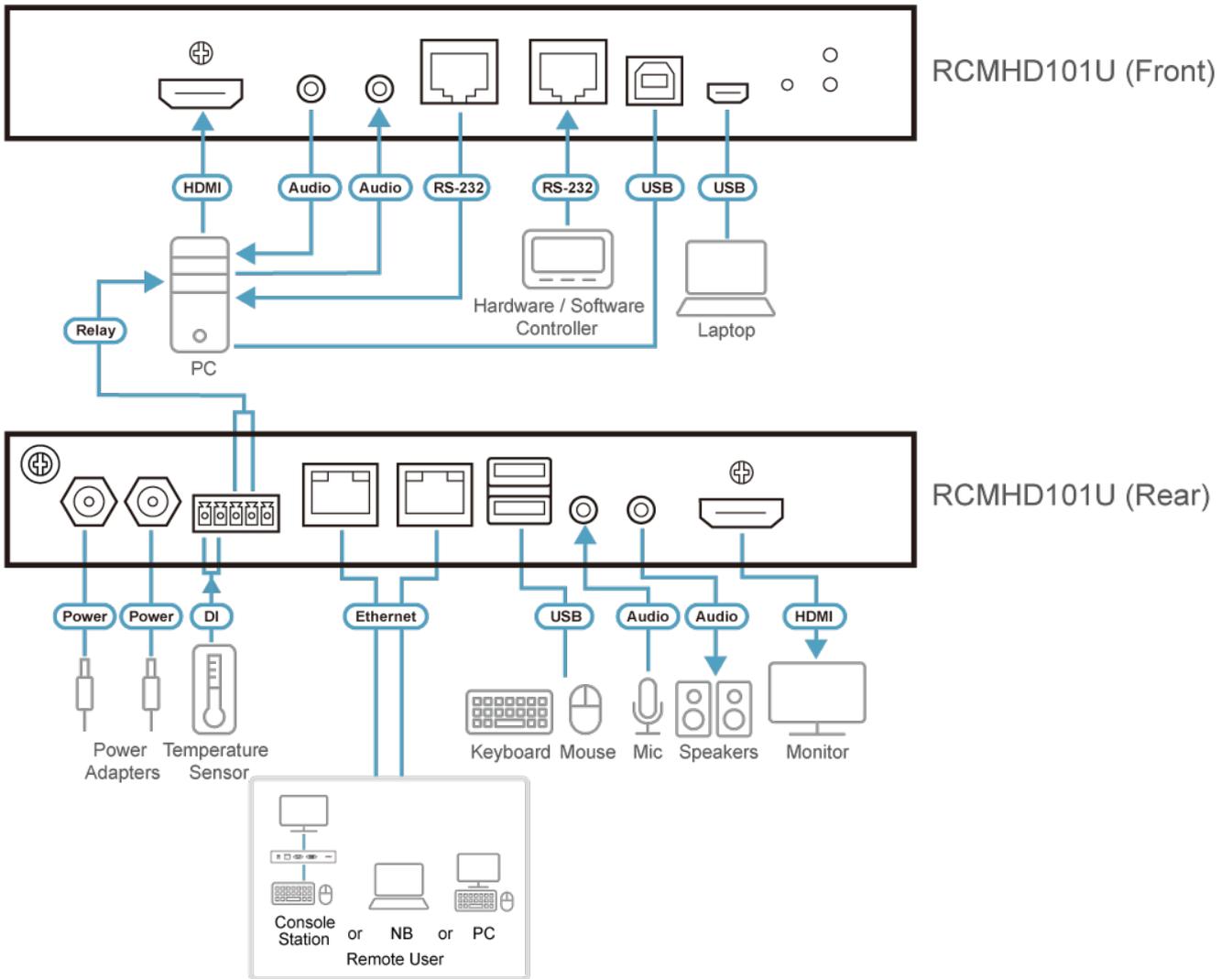
• Virtual Remote Desktop

- Video quality 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

Specifications

| | |
|------------------------|---|
| 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) |
| 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) |
| 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 | 1 x 6-pin Mini-DIN Female (Purple) |
| 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:48BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Environmental | |
| Operating Temperature | 0 - 50°C |
| Storage Temperature | -20 - 60°C |
| Humidity | 0 - 80% RH, Non-condensing |
| Physical Properties | |
| Housing | Metal |
| Weight | 0.84 kg (1.85 lb) |
| Dimensions (L x W x H) | 20.00 x 15.05 x 2.84 cm (7.87 x 5.93 x 1.12 in.) |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. |

Diagram



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