RCM101A

1-Local/Remote Shared Access Single Port VGA KVM over IP Switch

The ATEN RCM101A supports Panel Array for monitoring all machines with multiple RCM products, and offers advanced and exclusive RCM and OCR API (DDL) interfaces with various function integrated for easy management. Furthermore, with the optional 2XRT-0015G KVM over IP Access Control Box, the RCM101A allows users to enable or disable remote control privilege.

The RCM101A features superior video quality with HD resolutions up to 1920 x 1200, LUC (Laptop USB Console) for easier KVM access, user-friendly local console OSD and virtual media function without additional cable.

System operators can monitor and access computers from remote locations using standard Web browsers or Windows and Java based application programs. The RCM101A connects to the Intranet either LAN or WAN simply by using an industry standard Cat 5e/6 cable, and is connected to a local KVM switch or server via a custom KVM cable.

Complying with the standard TCP/IP protocols for communications, the RCM101A allows the connected server or KVM switch to be accessed from any computer over the internet – whether that computer is located down the hall, in other areas of the country or branch offices in other parts of the world.

A Windows Client Viewer and a Java Applet Viewer are available for browser access, while Windows Client AP and Java Client AP programs are provided for non-browser GUI access. They allow IP connection and login from anywhere over the internet. Inclusion of a Java-based client ensures that the RCM101A is an independent platform, and is able to work with practically all operating systems.

To meet advanced security requirements, the RCM101A's Virtual Media function allows a Smart Card/CAC reader on a user's local system to be mapped to a remote server. The RCM101A provides a fast, reliable and a cost effective way to remotely access and manage widely distributed multiple computer installations.

Features

- ## Exclusive RCM functionalities
  - Supports Access Control Box which allows users to enable/disable remote control privilege
  - Supports Panel Array to monitor all machines for operators with multiple RCM products
  - Supports exclusive integrated RCM API (DLL) interface with various function for system integrators
  - Supports OCR API (DLL) interface for optical character recognition

- ## Hardware
  - Provides over-IP capability to KVM switches that do not have built-in over-IP functionality*
  - Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
  - Local console provides PS/2 and USB keyboard/mouse support**
  - Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
  - Virtual Media Support
  - High video resolution – up to 1920 x 1200 @ 60Hz- 24 bit color depth for the local console; up to 1920 x 1200 @ 60 Hz with 24 bit color depth for remote sessions
  - Enhanced fps (frames per second) throughput for crisp responsive video display
    * Cascade-compatible KVM Switches include the following: CS1308, CS1316, CS1754*, CS1758*, CS1708A, CS1716A
    • Some of the RCM101A's features may not be supported, depending on the functionality of the cascaded KVM switch. (For example, some switches do not support virtual media.)
    • Some features found on the cascaded KVM switches may not be supported on the RCM101A. (For example, the CS1754's audio.)
    **Since there are a large number of keyboards/mouses with functions specifically designed for OS other than Windows, they may not be adapted and may have compatibility issue.

- ## Management
  - Laptop USB Console (LUC) – a dedicated USB port directly connects to laptop for easy console operation
  - Easy configuration through local console OSD
  - Up to 64 user accounts – up to 32 users can simultaneously share control
  - End session feature – administrators can terminate running sessions
  - Event logging and Windows-based Log Server support

- Critical system events sent by email and SNMP trap; Syslog support
- Remote firmware upgradable
- 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 (Dynamic Domain Name System)
- Exports/imports user account and configuration settings
- Browser Access Permission – extra security feature to allow/disallow browser/http/https access
- IPv6 capable

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, Chrome, 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

Advanced Security

- Smart Card/CAC Reader Support
- External authentication support: RADIUS, LDAP, LDAPS and MS Active Directory
- TLS 1.2 encryption to protect password when users log in
- Flexible design allows users to choose any combination of encryption algorithms (e.g. 256-bit AES) or system-generated random selection 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 and ISO images
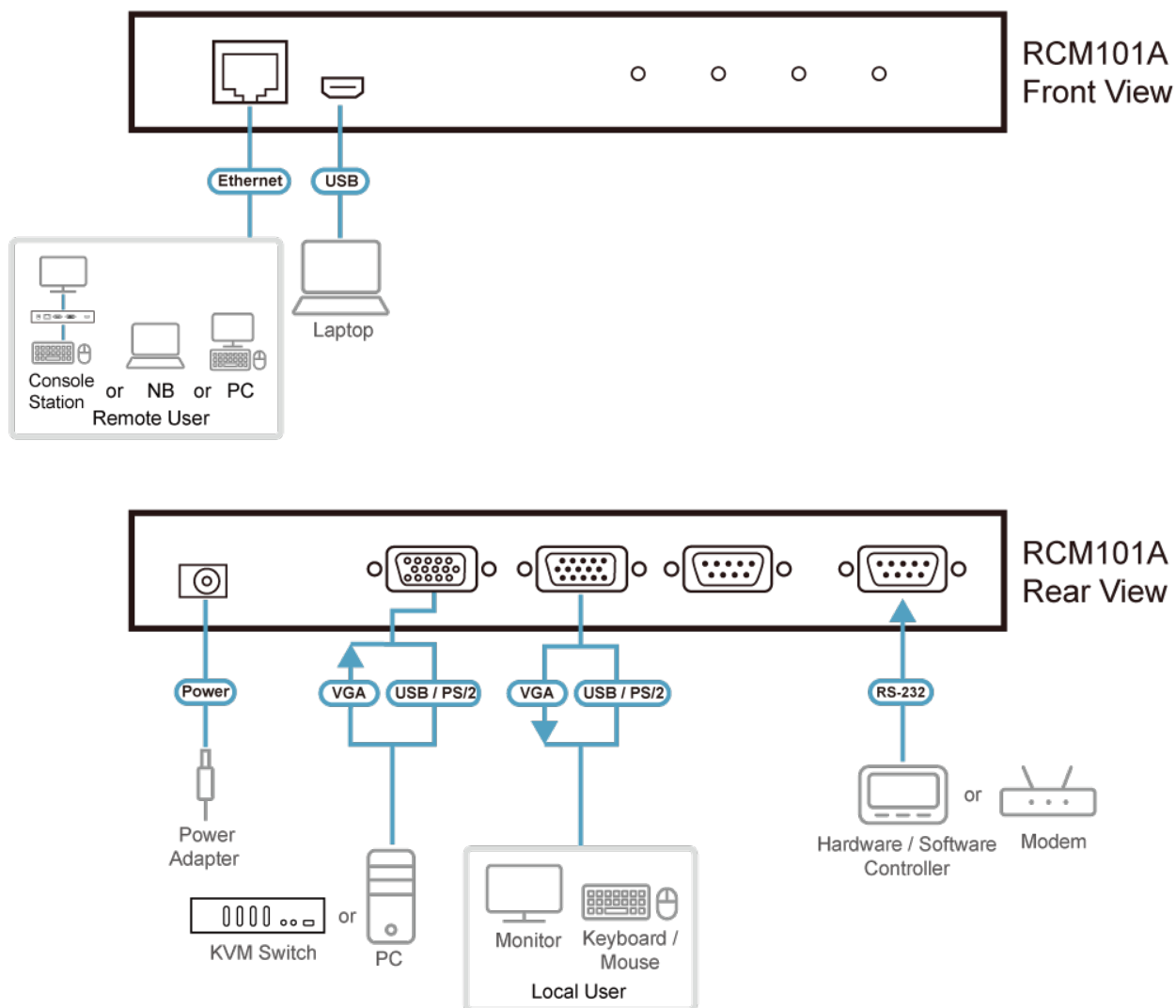- Convenient to use without virtual media cable

Virtual Remote Desktop

- Video quality and video tolerance can be adjusted to optimize data transfer speed; monochrome color depth, threshold and noise settings 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	1 x SPHD-18 Male (Yellow)
KVM (Computer) Ports	1 x SPHD-18 Female (Yellow)
Laptop USB Console (LUC) Port	1 x USB Mini-B Female
PON	1 x DB-9 Male
RS-232	1 x DB-9 Male
LAN Ports	1 x RJ-45 Female
Power	1 x DC Jack
Switches	
Reset	1 x Semi-recessed Pushbutton
LEDs	
Power	1 (Orange)
Link	1 (Green)
10/100/1000 Mbps	1 (Orange / Orange+Green /Green)
Emulation	
Keyboard / Mouse	USB; PS/2
Video	Up to 1920 x 1200 @ 60 Hz; DDC2B
Power Consumption	DC5.3V:4.79W:31BTU/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 (RCM101A) 0 - 40°C (Power Adapter)
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.00 x 8.14 x 2.50 cm (7.87 x 3.2 x 0.98 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

RCM101A
Front View

Ethernet | USB

Console Station or NB or PC
Remote User

Laptop

RCM101A
Rear View

Power | VGA | USB / PS/2 | VGA | USB / PS/2 | RS-232

Power Adapter

KVM Switch or PC

Monitor | Keyboard / Mouse
Local User

Hardware / Software Controller or Modem