RCMDVI50T

DVI-I Dual link Single Display KVM over IP Transmitter with Remote Access

The RCMDVI50T is a high performance IP-based transmitter that connects to a DVI-interfaced PC/server which can be remotely accessed via WinClient / JavaClient at a console from a separated location. With single display and dual link, the RCMDVI50T supports one DVI display with resolution up to 2560 x 1600 @ 60 Hz. The RCM extender setup allows remote access to computer systems via a USB console (USB keyboard / mouse, DVI monitor) over intranet or the Internet, enabling users to place the managed servers / computers in secure and temperature-controlled environments, which may be isolated from users' workstation.

The RCMDVI50T is integrated with an exclusive RCM API for providing various extensive functions, including local / remote access control, automated operation sequences (SendKey / SendMouse), screen monitoring, remote troubleshooting, image sampling comparison, optical character recognition (OCR), and more. Additionally, by using the RCMMS (Remote Control & Monitoring Management Software), a centralized management platform featuring Panel Array, users can manage, monitor, and control up to hundreds of RCM devices simultaneously. The RCMDVI50T is equipped with an FPGA graphics processor that offers great image and video quality to enhance OCR accuracy. Moreover, in order to enhance production line applications, the RCMDVI50T supports OSD Title Bar Notification, RFID authentication from a local console, industrial status LED lights with status detection, and Access Control Box (2XRT-0015G) for managing remote control privilege at local site.

The RCMDVI50T can be used with ATEN's CCVSR (Control Center Video Session Recorder software) to record all operations made on the server. Every operation and change – booting up at BIOS level to system level, logging in and logging out, running software applications to configure the operating system – is recorded and saved to a secure video file for security reference and troubleshooting purposes, and etc.

The transmitter supports connections via an RJ-45 port or a SFP slot. It can be connected to a receiver either directly, or via a high-speed network over a copper-based or fiber-based LAN. When connecting to a fiber optic network using 1-Gbps SFP fiber module* expansions, transmission distance can be extended up to 10 km. It also features dual power supplies for redundancy to ensure uninterrupted operation. In addition, with RS-232 support and Auto MDIX, the RCMDVI50T provides a convenient way to enable digital extension for production line applications through a network.

As an IP-based matrix extender, the RCMDVI50T can be used as a point-to-point / point-to multipoint / multipoint-to-point / multipoint-to-multipoint extender. When combined with the KVM over IP Matrix Manager (CCKM), it can be integrated into a KVM over IP Matrix System (multipoint-to-multipoint) for providing more flexible applications in different working environments.

With integration with the CCKM, IT administrators can benefit from advanced features such as auto detection of all extenders on the same subnet for the sake of fast installation or configuration, username / password authentication and authorization, and the ability to define different types of connections that can be switched and shared. Security features of the RCMDVI50T include AES 128-bit encryption for secured data transmissions, as well as RADIUS, LDAP, Active Directory, TACACS+ for 3rd-party authentication services. All in all, the RCMDVI50T is the most cost-effective and convenient way to provide full digital extension for production line applications through a network.

Note: *The SFP module (2A-136G / 2A-137G) is sold separately. Contact your ATEN dealer for product information.

Características

- Exclusive RCM functionalities
  - Supports ATEN KVM over IP 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
  - OSD Title Bar Notification – instantly notifies users upon urgent events
  - Control terminal – supports DI / DO / Relay for the status detection of stack lights or any other external sensors
  - Supports an exclusive RCM API that enables more functions (e.g. OCR) to facilitate production line control for system integrators

    Note: *The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Contact your ATEN dealer for product information.

- Advanced Features
  - RFID login without typing username and password
  - Supports recording of remotely-accessed computer operations using CCVSR
  - Boundless Switching – simply moves the mouse cursor across screen boundaries to switch between different receivers (Rx)
  - "Push" and "Pull" – shares content instantly to / from a single Rx or video wall by just one click
  - Video Walls – create multiple video walls with up to 12 x 12 (144 displays max.) in each layout
  - Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
  - Virtual Transmitter – independently streams video, audio, USB, and serial sources from different Tx

- Internal and external authentication support – supports LDAP, Active Directory, RADIUS and TACACS+ external authentications
- Configurable user and group permissions for access and control of RCM devices

  Note: These advanced functions are supported when the RCM transmitters are paired with KVM over IP receivers and managed by CCKM.

Hardware

- Supports power / network failover – dual DC jacks for power redundancy and 1 RJ-45 and 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Supports 1Gbps SFP fiber module expansions up to 10 km [1]
- Advance processor provides lossless and low latency video transmissions up to 2560 x 1600 @ 60 Hz
- Supports digital (DVI) or analog (VGA) video output [2]
- Audio Enabled – supports stereo speakers and microphone
- High speed Virtual Media Support[3]
- Auto-MDIX – automatically detects cable type
- Built-in 8kV / 15kV ESD protection and 2kV surge protection
- Fanless design for silent operations that are energy efficient
- Mounting options:
  - 2X-021G Dual Rack Mount Kit
  - 2X-031G Single Rack Mount Kit
- Includes an industrial-grade power adapter – supports operating temperature of 0 – 50 °C to ensure durability and adaptability under harsh environmental conditions

  Note:
  1. The SFP module (2A-136G / 2A-137G) is sold separately. Contact your ATEN dealer for product information.
  2. To convert a DVI to VGA signal, a DVI-I to VGA converter is required.
  3. Some features may not be supported, depending on the functionality of the cascaded KVM switch. (For example, some switches do not support virtual media.)

Management

- Integration with ATEN CCVSR Video Session Recording Software
- Local console – flexible local or over IP console access
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- Four selectable access modes for multiple simultaneous access (Exclusive / Occupy / Share / View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Command Line Interface – administrators can control all RCM devices via RS-232 or TCP / IP using a CLI or 3rd party application
- Supports Hotkey Commands
- Flashing LED and beeping feature helps locate and identify devices
- RCM devices can“Push“ and “Pull“ to share content

Security

- Dedicated LAN port for RCM direct connections – can be isolated from the corporate network
- Secure data transmission – AES 128-bit encryption to secure all data before transmitted over a network and decrypts the data on the receiver
- Supports industry-standard Transport Layer Security (TLS) protocol

Virtual Media

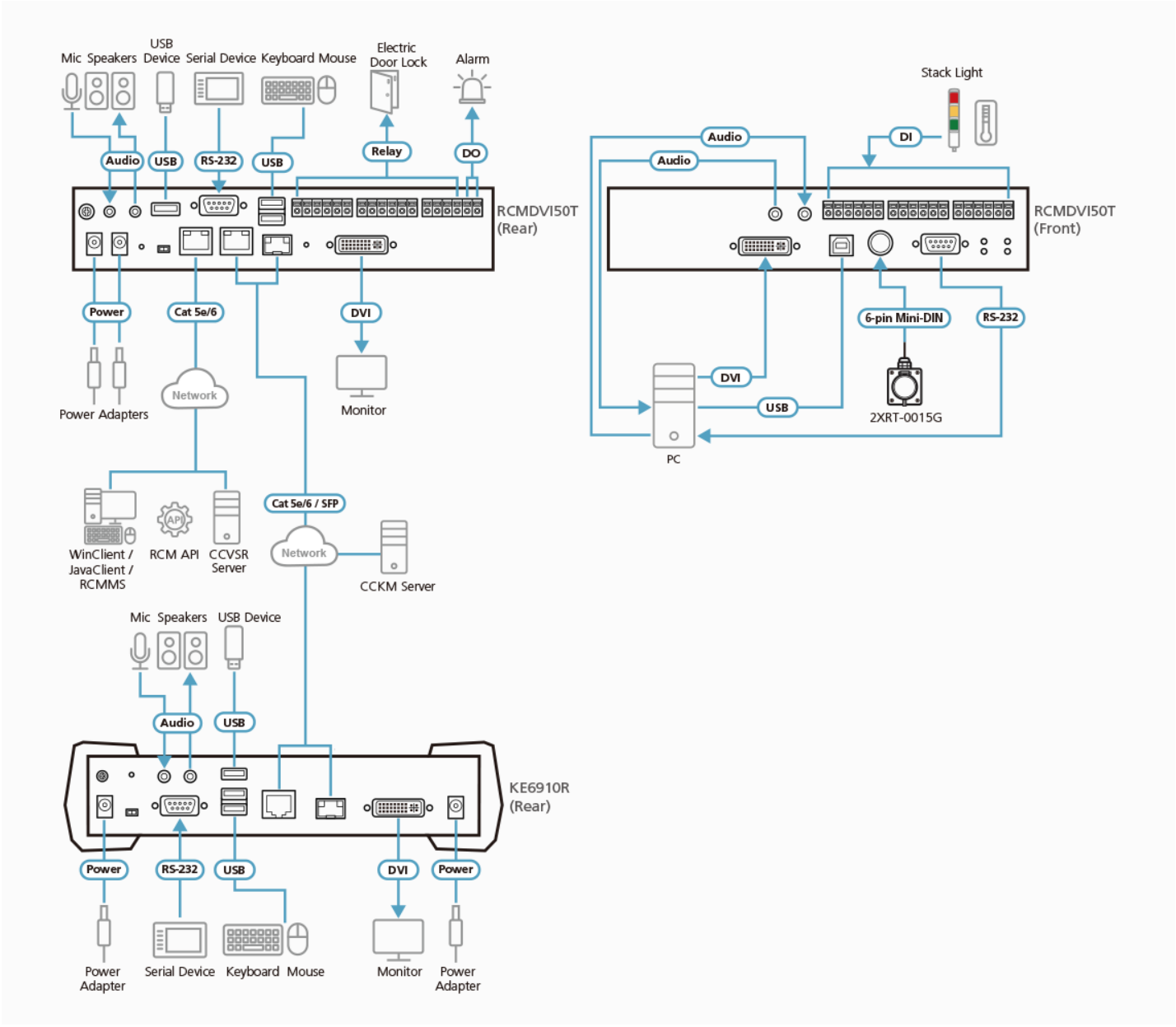
- Virtual media enables file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD / CD drives, USB mass storage devices, PC hard drives, folders and ISO images
- Supports Smart Card / CAC Reader
- Works with USB-enabled servers at OS and BIOS level

Especificaciones

Conectores	
Puertos de consola	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
Puertos KVM	1 x USB Type B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Alimentación	2 x DC Jack (Black)
Puertos LAN	1 x RJ-45 (Black) 1 x SFP Slot

Puertos de Internet	1 x RJ-45 (Black)
Puerto USB	1 x USB Type A Female (White)
Control	1 x 6-pin Mini-DIN (Purple)
E/S	9 x DI (0 - 24V) (Front) 1 x DO (0 - 24V) (Rear)
Retransmisión	8 x Relay (Max 24VDC, 1.2A) (Rear)
Switches	
OSD	N/A
Vídeo	N/A
Gráficos	N/A
Reiniciar	1 x Semi-recessed Pushbutton
Selección de modo	1 x Slide Switch (Auto, RS-232 Config/Access Control, Local)
LEDs	
Alimentación	2 (Green)
Local	1 (Green)
Mando a distancia	1 (Green)
10/100/1000 Mbps	2 x LAN (100: Orange / 1000: Green)
Enlace	2 x LAN (Green) 1 x SFP (Green)
Emulación	
Teclado / Ratón	USB
Consumo de energía	DC12V:17.3W:135BTU/h Nota: ● La medición en vatios indica el consumo de energía típico del aparato sin carga externa. ● La medición en BTU/h indica el consumo de energía del dispositivo cuando está totalmente cargado.
Resolución de vídeo	Up to 2560 x 1600 @ 60Hz
Condiciones medioambientales	
Temperatura de funcionamiento	0–50°C
Temperatura de almacenamiento	-20–60°C
Humedad	0–95% RH, Non-condensing
Propiedades físicas	
Carcasa	Metal
Peso	1.51 kg (3.33 lb)
Dimensiones (LA x AN x AL)	21.50 x 21.33 x 4.18 cm (8.46 x 8.4 x 1.65 in.)
Nota	Tenga en cuenta que, en algunos productos de montaje en bastidor, las dimensiones físicas estándar de anchura x profundidad x altura se expresan en el formato longitud x anchura x altura.

Diagrama


Mic
Speakers
USB Device
Serial Device
Keyboard
Mouse
Electric Door Lock
Alarm
Audio
USB
RS-232
USB
Relay
DO
RCMDVI50T (Rear)
Power
Cat 5e/6
DVI
Power Adapters
Network
Monitor
WinClient / JavaClient / RCMMS
RCM API
CCVSR Server
Cat 5e/6 / SFP
Network
CCKM Server
Mic
Speakers
USB Device
Audio
USB
KE6910R (Rear)
Power
RS-232
USB
DVI
Power
Power Adapter
Serial Device
Keyboard
Mouse
Monitor
Power Adapter
Stack Light
Audio
Audio
DI
RCMDVI50T (Front)
6-pin Mini-DIN
RS-232
DVI
USB
2XRT-0015G
PC