



**Rack Mount  
KVM Local /  
Remote  
Access over IP**

**User Manual**

**Revision B**

## ACT Rack Mount KVM Local / Remote Access over IP User Manual

ACT Document Number: Rack Mount KVM Local / Remote Access over IP

Manual Revision B

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This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

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### Revision History

Revision	Date	Reason for Change
A	06/05/2024	Draft
B	03/31/2026	Initial release



## Contents

1. Introduction .....	4
1.1 Overview .....	4
1.2 Features .....	4
1.3 Specifications .....	6
1.4 Apperance .....	7
1.5 KVM Adapter Selection .....	8
1.6 Models and Options .....	9

## 1 Introduction

### 1.1 Overview

The Ascent's KVM5100 rack mount KVM over IP Switch is a control unit that allows secure access to 8/16/32 computers from a single KVM console.

The KVM5100 features IP-based connectivity that allows local and remote operators to monitor and access the computers. With TCP/IP communications protocol, the KVM5100 can be accessed from any computer on the LAN, WAN or Internet.

It's easy to set up the KVM5100, just plug the cable into the appropriate port, no software needed, no complicated installation procedures, and no compatibility issues.

Connect computers with compact RJ-45 connectors and Cat 5e/6 cable, transmitting distance is up to 100m.

### 1.2 Features

#### Hardware Features

- Rack-mountable in 1U system rack

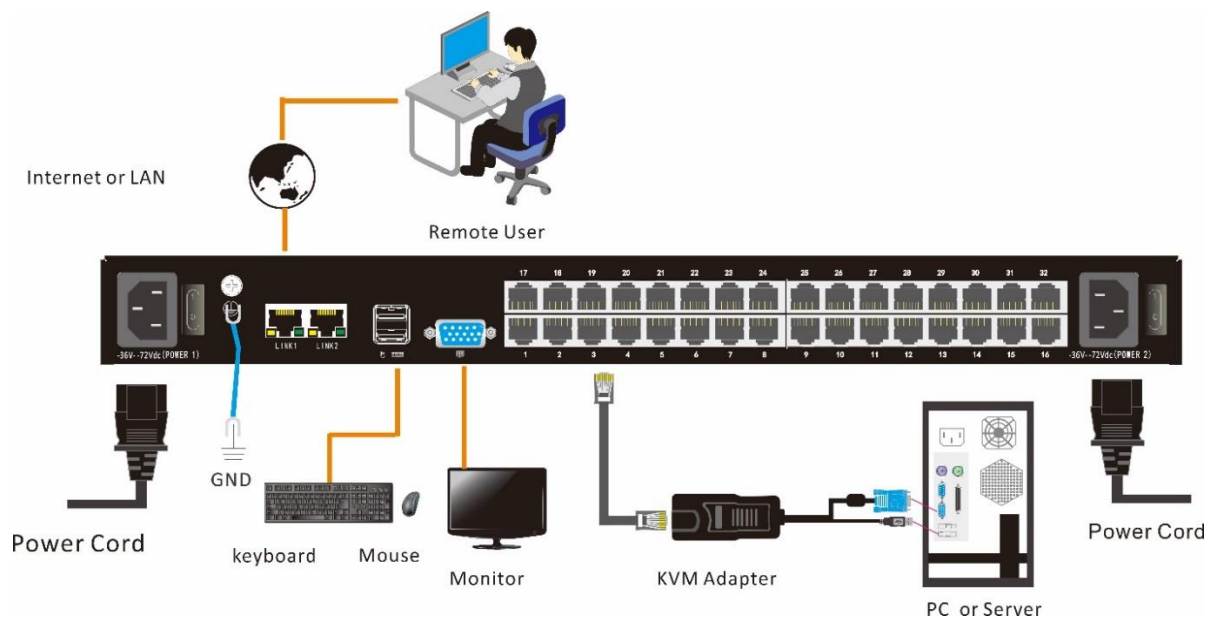
#### Local Console

- Control up to 8 / 16 / 32 computers
- Support 1 local user and 1 remote user, port share mode allows local and remote users to gain access to a server simultaneously
- Easy-to-use switching by browser-based UI interface, hotkeys and pushbuttons
- Support servers with VGA/DVI/HDMI/DP port
- Multiplatform client support (Windows, Linux, Unix, Mac, Solaris (Sun), Redhat, Ubuntu)
- Local Console, Browser, and AP GUIs offer a unified Multilanguage interface
- Support mouse synchronization mode--automatically synchronizes the local and remote mouse movements
- Video synchronization with local console - EDID information for local console display can be stored in the host module for video resolution optimization
- Keyboard and mouse emulation to ensure the normal booting
- Broadcast mode--operations simultaneously performed on all selected computers
- Auto scan feature for monitoring user-selected computer
- Hot pluggable--add or remove computers without having to power down the switch

#### Remote Console

- Adaptive 10 / 100 / 1000 Mbps network
- WEB browser-based Or KVM\_Clients remote management BIOS-level access
- BIOS-level access

- Video quality and video tolerance can be adjusted to optimize data transfer speed, data transfer speed is up to 60 FPS
- Full screen or scalable video display
- Remote users and local users can control the same server/computer synchronously
- Support AES / DES / 3DES encryption
- Support audit function-allows the administrator to audit the device through the system log and operation log
- Exit Macros support
- Configurable user and group permissions for server access and control
- Support strong password
- Support firmware upgrade



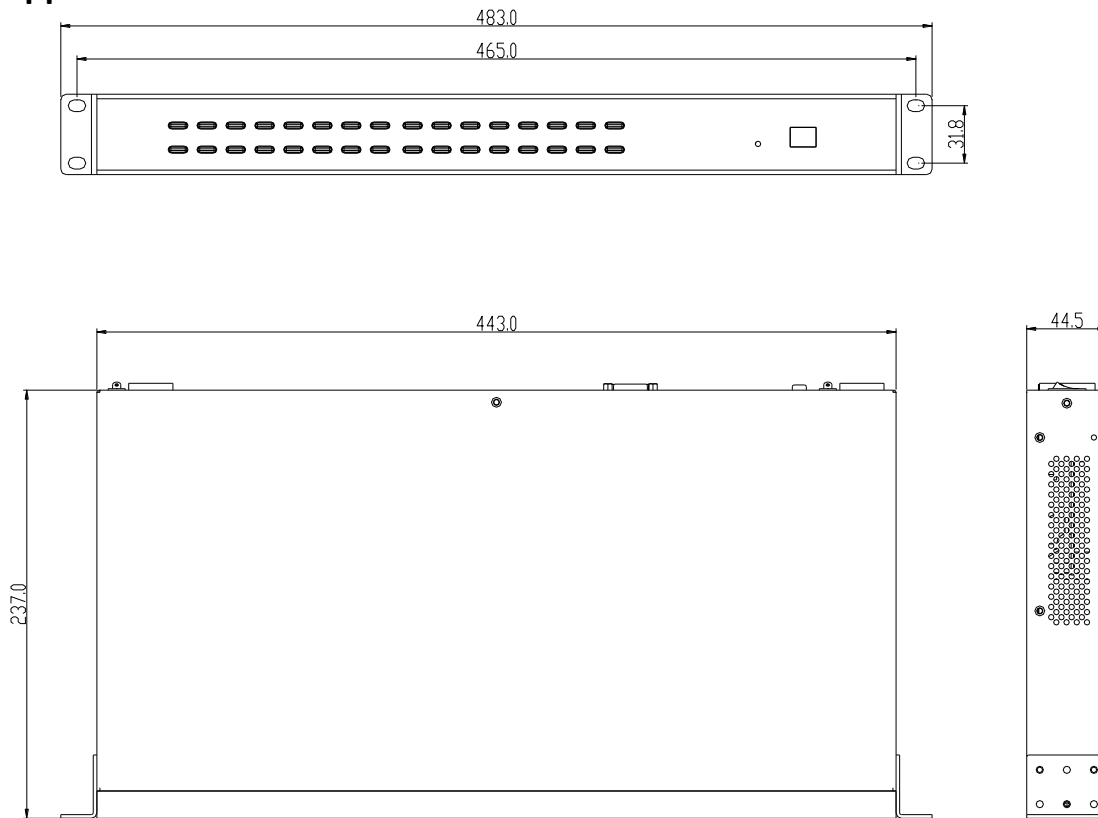
**Note:**

The product supports console router and switch. The KVM adapter in the diagram is the console connection adapter which allows user to configure switches and routers using the CLI.

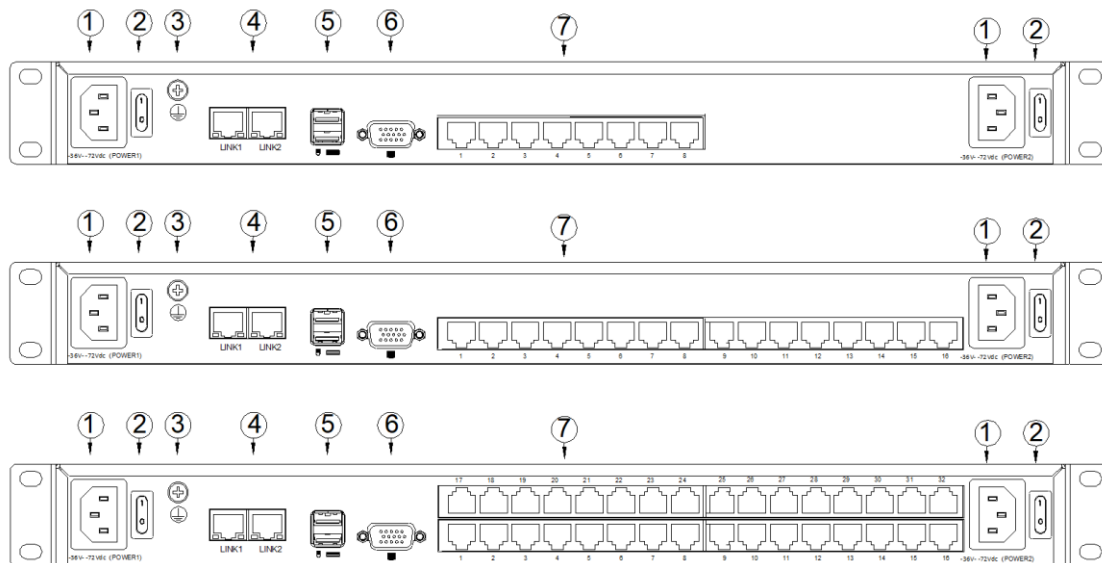
## 1.3 Specifications

Item	Description		
Model	KVM5108I	KVM5116I	KVM5132I
Computer Connections	8	16	32
Port Selection	8	16	32
Port Selection	Pushbutton, UI , Web ,Hotkey		
Connector	Console	Keyboard	2 x USB TYPE A
		Mouse	
		Monitor	1-HDB-15 Female (blue)
	KVM Port (RJ-45)		8 16 32
	Upgrading Switch	1x RJ11 Female	
	Power	3-Prong AC socket	
Switch	Port Selection	8 16	32
	Reset	1 x touch-button	
	Upgrading Switch	1 x toggle switch	
	Power	1 x rocker switch	
LCD Monitor	Online	8 (green) 16 (green)	32 (green)
	Selected	8 (orange) 16 (orange)	32 (orange)
	Power	1 (blue)	
	Cascade Display	2*7 - Segment (orange)	
Remote	Remote Control	KVM control ( ActiveX control )	
	Management Way	Web	
	Security	DES encryption	
	Resolution	1920×1080@60Hz	
Input Power Dual DC	-36V to 72V, 50 to 60Hz, <1.5A		
OR			
Input Power Dual AC	100V to 240V, 50 to 60Hz, <1.5A		
Power Consumption	11W	13W	15W
Environment	Operating Temperature	0 to 50 °C	
Requirements	Store Temperature	-20 to 60 °C	
	Humidity	0 to 80% RH, Non-condensing	
Physical	Material	Metal	
Features	Weight	3.8kg 3.8kg	4.1kg
	Dimension (W × D × H)	433mm × 237mm × 44.5mm	

## 1.4 Appearance


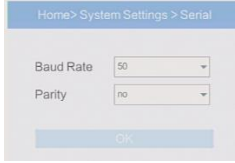





## Connector



- |                           |                        |
|---------------------------|------------------------|
| 1 Power input(DC)         | 5 USB Port             |
| 2 Power Switch            | 6 Console Monitor Port |
| 3 Ground Connection Screw | 7 Host Port            |
| 4 LAN port                |                        |

## 1.5 KVM Adapter Selection

Name	Model No.	Picture	PC or Server	UI
Serial KVM Adapter	KVM-0402U		1* USB type A 1* DC 5.5mm 1* RJ-45 (male)	
VGA KVM Adapter	KCM-1200U		1* USB type A 1*HDB-15 (male)	
HDMI KVM Adapter	KCM-3200H		1* USB type A 1* HDMI A (male)	
DVI KVM Adapter	KCM-2200D		1* USB type A 1*DVI-D(24+1) (male)	

## 1.6 Models and Options

<b>Product Name</b>	<b>Description</b>
KVM5108I-AC	Rack Mount KVM, 8 ports and supports one remote user and one local user, AC PS
KVM5108I-DC	Rack Mount KVM, 8 ports and supports one remote user and one local user, DC PS
KVM5116I-AC	Rack Mount KVM, 16 ports and supports one remote user and one local user, AC PS
KVM5116I-DC	Rack Mount KVM, 16 ports and supports one remote user and one local user, DC PS
KVM5132I-AC	Rack Mount KVM, 32 ports and supports one remote user and one local user, AC PS
KVM5132I-DC	Rack Mount KVM, 32 ports and supports one remote user and one local user, DC PS



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