KN2132/KN4116/KN4132

ALTUSEN™
Enterprise KVM Solutions by ATEN

The KN2132, KN4116, and KN4132 are IP-based KVM control units that allow both local and remote operators to monitor and access multiple computers from a single console.

KN4132

For example, a single KN4132 can control up to 32 computers. By cascading up to 32 compatible KVM switches, as many as 512 computers can be controlled on a two stage installation.

The switches are differentiated according to the number of buses they support and the number of KVM ports they provide – as shown in the table below:

Model	Bus Support	KVM Ports
KN2132	1 Local; 2 Remote	32
KN4116	1 Local; 4 Remote	16
KN4132	1 Local; 4 Remote	32

Each bus permits a separate user session so that up to three (KN2132) or five (KN4116 / KN4132) concurrent independent connections to the local servers can take place.

The KN2132/KN4116/KN4132 uses KVM Adapter Cables for its connections:

	KA9120	KA9170	KA9130	KA9140	KA7140
Type:	PS/2	For all USB systems	Sun Legacy	Serial	Serial
Interface:	6-pin Mini-DIN Male	USB Type A Male	13W3 Male	RS-232 DB-9 Female	RS-232 DB-9 Female
	6-pin Mini-DIN Male	HDB-15 Male	DIN 8 pin Male		
	HDB-15 Male				

» *Features*

- Supports up to 5 bus sessions – 1 local and 2 (KN2132) or 4 (KN4116 / KN4132) remote administrators can simultaneously access separate ports
- 16 or 32 port remote access KVM switch – monitor and control up to 16 or 32 computers – up to 512 computers in a two-level cascade ∗
- Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation *New!*
- Two IP design supports 2 (KN2132) or 4 (KN4116/KN4132) remote sessions *New!*
- Full-screen graphical OSD for the local console-local console port switching accomplished simply by clicking with the mouse *New!*
- Full-screen or sizable and scalable remote desktop window – in full-screen mode the remote desktop display scales to user's monitor display size *New!*
- Remote authentication support: RADIUS, LDAP, LDAPS, and Active Directory *New!*
- Magic Control Panel *New!*
- High video resolution: up to 1600 x 1200 @ 60Hz – 32 bit for the local console; up to 1600 x 1200 @ 60Hz for remote sessions *New!*
- Mouse DynaSync for USB mice – local and remote mouse movement are the same- no need to constantly resync the two movements.
- Multi-language OSD support – English, German, Traditional Chinese, Simplified Chinese, and Japanese *New!*
- Local console supports both PS/2 and USB keyboards and mice (combo console) *New!*
- Multi-user support – up to 64 user accounts – 1 local and 2 (KN2132) or 4 (KN4116/KN4132) remote users can simultaneously access separate ports – up to 32 users share the remote buses
- Remotely access computers via LAN, WAN, or the Internet; control your installation when and where you want
- Ports can be individually configured for Exclusive, Occupy, and Share modes
- RJ-45 connectors and CAT 5e cable for a neat and tidy, efficient installation- up to 40m between computer and switch
- Web-based Windows and Java implementations allow the switch to be accessed from an internet browser
- Browser access can be disabled – Windows and Java GUI AP programs provided for non-browser connectivity – Java works with practically all operating systems
- Graphical OSD and toolbars for convenient, user friendly operation
- Panel Array Mode – view up to 32 ports at the same time – up to 42 ports for cascaded installations
- Software (On-screen) keyboard
- Altusen CC (Control Center) support
- PON (Power Over the NET™) support via Java
- External modem support for PPP dial in- remote users can dial in and operate in low bandwidth mode
- Video quality and video tolerance can be adjusted to compensate for bandwidth variations in order to optimize data transfer Speed
- Windows-based Log Server
- Multi-platform support – Win, Linux, Sun and VT100 based serial devices
- KVM Adapters provide multi interface access – PS/2, USB, SUN and RS-232
- Supports 10Base-T, 100Base-T, 1000Base-T, Auto-Sense, TCP/IP, HTTP, DNS, DHCP, PPP, UDP, ARP, Ping
- Multi-level authentication: super administrator; administrator; user; viewer – no limit on the number of each type
- Advanced security features include password protection and advanced encryption technologies – 1024 bit RSA; 56 bit DES; 256 bit AES; and 128 bit SSL
- BIOS level troubleshooting
- Flash upgradeable firmware over the network
- Rack-mountable in 19" (1U) system rack

∗ Compatible KVM Switches: KH98, CS9134, CS9138, CS88A, KH1508, KH1516

Benefits

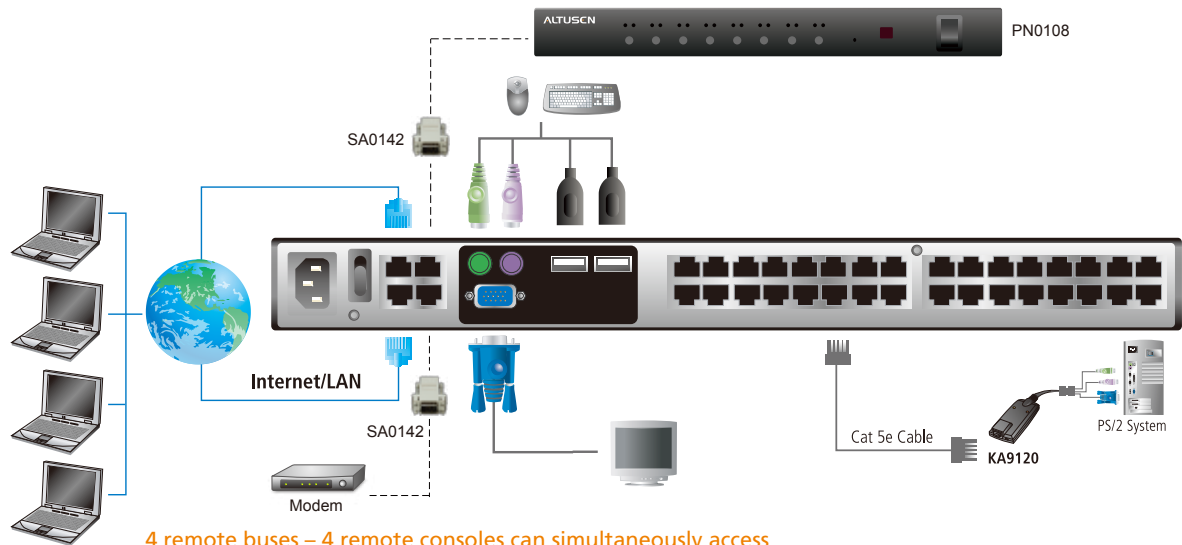|	
Dual NIC Design – Dual IP Configuration	The dual on-board NICs can be configured for Redundant LAN operation or Dual IP operation. If Redundant LAN is enabled, if the primary NIC goes offline, the secondary NIC automatically and seamlessly takes over. Under Dual IP operation, each NIC is assigned its own IP address – users can log in to either IP address when accessing the KN2132/KN4116/KN4132.
Magic Control Panel	The WinClient AP features a special hideaway Control Panel to control and configure the appearance and operation of the KN2132/KN4116/KN4132's OSD. The panel never interferes with your work area – it can be dragged to any convenient location; it can be iconized, made transparent, or even made to disappear – only to reappear when moused over.
Configuration and Operation Ease	An easy-to-navigate graphical user interface makes for convenient, intuitive configuration and operation. A web-based implementation allows the remote equipment to be controlled from industry-standard web browsers. Windows and Java AP client software – using the same, convenient, GUI – are also included to provide access where a browser environment is not desired
Full-screen or sizable remote desktop window	The remote desktop can appear full-screen, or in a window. In windowed mode, the display can be dynamically scaled by dragging the window borders or selecting pre-set percentages.If the remote video is smaller than the local video, you may choose 1:1 scaling in which the screen elements keep their original size when you scale the window they display in. In full-screen mode the remote desktop display scales to the full screen display size of the user's monitor.
Multi-Keyboard Language Support — On-Screen Keyboard	The KN2132/KN4116/KN4132 supports multiple keyboard language input – including Traditional Chinese, English UK, English US, French, German, Hungarian, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Swedish, US Internaltional. There is no need to have a separate keyboard for each language – you can input key data in any of these languages with the KN2132/KN4116/KN4132's convenient on-screen keyboard.
Superior Video	With its enhanced fps throughput for crisp responsive video display, the KN2132/KN4116/KN4132 offers resolutions of up to 1600 x 1200 @ 60Hz; vibrant 24-bit color depth for rich remote session display. The remote desktop can appear full-screen, or in a window. In full-screen mode the remote desktop display scales to the user's monitor display size.
Low Bandwidth Optimization	Video Quality, and Tolerance settings allow users to tailor the size of the video data stream to optimize throughput in low bandwidth situations.
Network Transfer Rate	This network setting allows you to streamline data throughput by adjusting the size of the data stream to match network traffic conditions.
Mouse DynaSync	DynaSync is the last word in KVM mouse synchronization. With USB mice and DynaSync, your local console mouse movement actually becomes the remote unit's mouse movement. Say goodbye to the annoying time-consuming hassle of constantly having to re-sync the mouse. With DynaSync you get perfect mouse synchronization on connection, and it stays that way for the entire length of your session.
Message Board	To alleviate the possibility of access conflicts that may result from multiple user logins, or to facilitate communication among the logged-in users, a message board – similar to an Internet chat program – allows users to communicate with each other, and provides mechanisms for a user to take exclusive control of the KVM functions.

PN0108

SA0142

Internet/LAN

SA0142

Modem

Cat 5e Cable

KA9120

PS/2 System

4 remote buses – 4 remote consoles can simultaneously access separate ports – up to 32 users can share the remote buses.

Specifications:

Function			KN2132	KN4116	KN4132
Computer Connections	Direct		32	16	32
	Max		512	256	512
Console Connections	Local		1	1	1
	Remote		2	4	4
Port Selection			OSD, Hotkey, Pushbutton		
Connectors	Console Ports	Keyboard	1 x PS/2, 1 x USB		
		Video	1 x HDB 15		
		Mouse	1 x PS/2, 1 x USB		
	KVM Ports		32 x RJ-45	16 x RJ-45	32 x RJ-45
	Power		1 x 3-prong AC Socket		
	LAN		2 x RJ-45		
	Modem		1 x RJ-45		
	USB		3 x USB		
	PON		1 x RJ-45		
Switches			Power, Port Selection, Reset		
LEDs			On Line, Selected, Power, Link, 10/100/1000 Mbps		
Emulation	Keyboard/Mouse		PS/2, USB (PC, Mac, Sun); Serial		
Video			1600 x 1200; @ 60Hz		
Scan Interval			1-255 Seconds		
I/P Rating			100-240 VAC; 50-60Hz; 1A		
Power Consumption			110V/33.40W 230V/33.60W	110V/39.60W 230V/40.00W	110V/45.80W 230V/46.30W
Environment	Operating Temp.		0-50℃		
	Storage Temp.		-20-60˚		
	Humidty		0-80% RH, Non-condensing		
Physical Properties	Housing		Metal		
	Weight		5.59 kg	5.52 kg	5.63 kg
	Dimensions (Lx W x H)		43.36 x 41.35 x 4.40 cm (19"/1U)		

ATEN International Co., Ltd.

3F, No.125, Sec. 2, Datung Rd. Sijhih City, Taipei 221, Taiwan

Phone: +886-2-8692-6789   Fax: +886-2-8692-6767   www.aten.com   E-mail: online@aten.com.tw

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