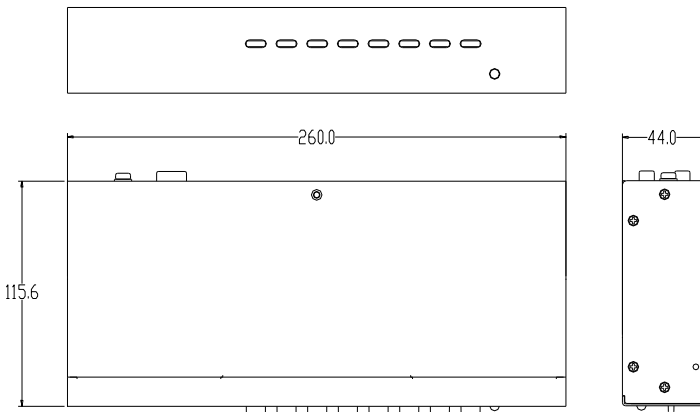# 8-port KM Switch
(KM0108)

User Manual

Overview:

Thank you for using our 8-port KM switch, which can effectively save you money, time, space, equipment and energy.

The 8-port KM switch can operate multiple computers at the same time with only one set of keyboard and mouse. Moreover, it supports the use of multi-monitors. Switching between PCs can be easily accomplished. To achieve that, the users only need to connect them to monitors.

Features

- Manage 8 connected computers
- Support stereo audio output
- Support USB2.0 HUB
- Provide LED indicator to help you precisely position your monitors (Optional)
- No software required-switching via front panel buttons and keyboard hotkeys.
- Support hot pluggable-add or remove servers at any time without turning off the power.
- Support USB-C firmware upgrade
- Management software is available to provide customized switching modes (Optional)
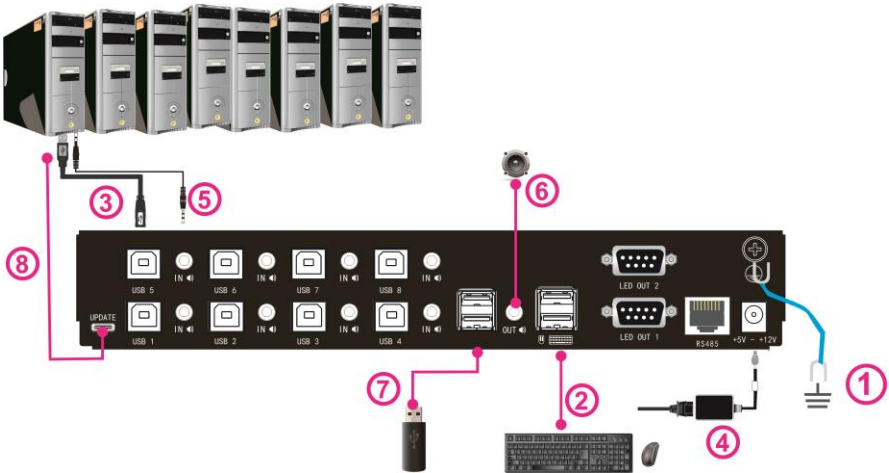- Support RS485 communication management (Baud rate 115200bps)

Structure and Size

Installation

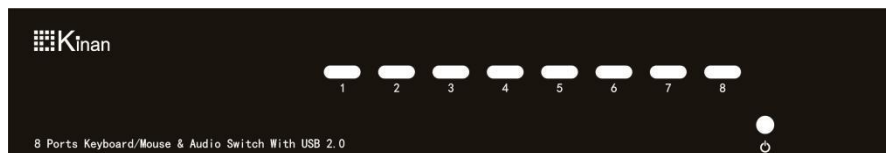Before starting the installation, please make sure that all devices are powered off.

1） Ensure that the KM switch (①) is grounded.
2） Connect USB keyboard, mouse to the USB interface of KM switch(②)
   (Notice: Please do not connect keyboard and mouse to the USB2.0 port)
3） Connect the PCs to the KM switch with equipped USB cable (according to ③)
4） Plug the power cord into KM switch.(④)
5） Power on the computers, switch multiple computers easily trough push buttons and keyboard hotkey [Ctrl]

* The factory default is no hotkey. It will be activated after pressing [7]+[8] keys 2S on the front panel at the same time.

6)   If speaker is required, please plug in the audio port (⑤⑥)
7)   If USB2.0 peripherals required, please connect peripherals to USB2.0 port(⑦)

Button

No.	Components	Description
1	1-8	Ports 1 to 8 can be switched freely. *Pressing [1]+[2] keys for 2S at the same time will cancel the hotkey function.* *Pressing [7]+[8] keys for 2S at the same time will activate the hotkey function.*
2	Port LED	The port LED is built in the port selection buttons. The online LED is on the left and the selected port LED is on the right 1）The online LED (green) indicates that the PCs of the corresponding ports have been connected with the KM switch and were powered on.
3	Power Supply LED	When the power LED becomes green, the KM switch is powered on.

Hotkey operation
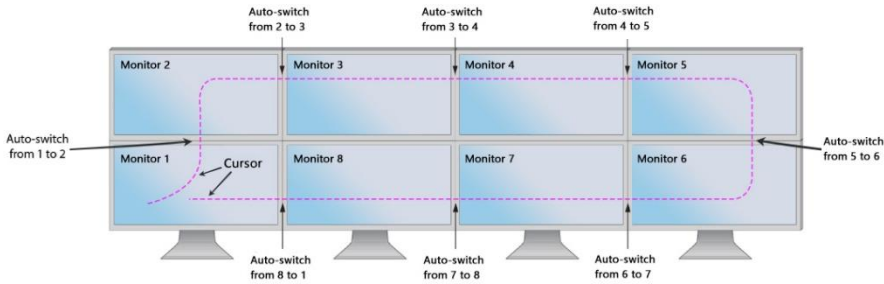
*** The factory default is no hotkey. To activate hotkey function, please press [7]+[8] keys 2S on the front panel at the same time.**

Press"[L _ Ctrl]" twice+the corresponding key of each function

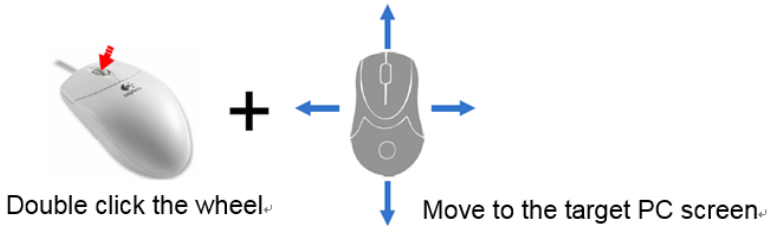| Command	Hotkey	Description
PC switching	+ 1~8	Switch directly to 1 ~ 8 PCs, for example: Press"L_ ctrl" twice+2, the keyboard and mouse will be switched to the second PC
Mode selection	+ M +0	Mode selection of all PCs is canceled
	+ M + (1~3)	1. Horizontal KM Switching mode 2. Vertical KM Switching mode 3: Surround KM Switching mode
KM Switching Mode	+ E	The current PC exits the KM Switching mode
	+ S	The current PC(PC single display) is in the KM Switching mode.
	+ D + (0~3)	The current PC(PC multi-display) is in the KM Switching mode, and supports up to 4 displays.
Audio switching	+ A + 0	Unlock the audio (audio automatically follows the KM switching to the corresponding port)
	+ A + (1~8)	Switch and lock the audio separately.
	+ A + O	Mute the audio
HUB switching	+ U + 0	Unlock the USB2.0 (USB2.0 automatically switches to corresponding PC ports with KM)
	+ U + (1~8)	Switch and lock USB 2.0 separately
Broadcast mode	+ B	open or cancel broadcast mode. In broadcast mode, the keyboard and mouse of PCs can be operated synchronously;
Hotkey cycle	+ F	L_Ctrl -> Scroll -> L_Shift ->CapsLock ->L_Alt->NumLock-> F12
Factory settings restoration	+ R	Restore factory settings

KM Switching in Single-Head Mode :

Conveniently and efficiently, Users are allowed to seamlessly switch between PCs by moving the mouse from one monitor to another.

- KM0108 automatically switches when the mouse moves between screens.

KM Switching in Multi-Head Mode:

Users only need to double-click the scroll wheel in the middle of the mouse and move along the direction of the channel you want to switch to.

Double click the wheel.   Move to the target PC screen.

Under Multi-Head Mode, USB2.0 peripherals cannot be switched.

RS485 Communication Management

	Pin1	**Pin2**	**Pin3**	**Pin6**
	GND	**5V**	**A**	**B**

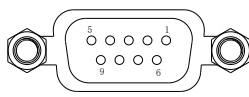1.Baud rate 115200bps, 8bit, NONE_PARITY

2.Packet format header 0x5A+total packet length + command + data 0~data n+ checksum (all data sum equals zero), the communication process is less than 500ms

3.Command set

KM0108 to RS485 device		
REPORT_KVMs_Status	0xF0	eg: 5A 0B F0 01 01 01 FF 7F FF 3F EC
RS485 device to KM0108		
WRITE__KVMs_Status	0xF0	eg: 5A 0B F0 01 01 01 FF 7F FF 3F EC
WRITE__Mouse_XYposition	0xF1	eg: 5A 08 F1 FF 3F FF 3F 31
WRITE__KVMs_PORT	0xF2	eg: 5A 07 F2 01 01 01 AA
SET_MOUSE_CROSS_Display	0xF3	eg: 5A 08 F3 FF 00 00 00 AC eg: 5A 08 F3 00 00 00 00 AB
READ_KVMs_Status	0xBF	eg: 5A 04 BF E3

DB9 LED indicator

Pin1	Pin5	PIN6	PIN7	PIN8	PIN9
5V	GND	LED1	LED2	LED3	LED4

Specification

Function			KM0108
Computer Connections			8
Port selection			Pushbuttons, Hotkey, Mouse
Connectors	Console	Keyboard/Mouse	1 x double-layer USB type A
		Speaker (out)	1 x Min Stereo Audio Jack
	KM	Keyboard/Mouse	8 x USB type B
		Speaker (in)	8 x Min Stereo Audio Jack
	Power		1 x DC Socket
	USB2.0 Port		1 x double-layer USB type A
	LED OUT		1 x DB9 (Female)
	Upgrade Port		1 x USB-C Socket
Switch	Port selection		8 x buttons
Power			5V- 12V DC
Power Consumption			5W
Emulation	Keyboard/Mouse		USB
Operating Temperature			0-50℃
Storage Temperature			-20-60℃
Humidity			0-80%RH, Non-condensing
Material			Metal
Weight			1.1kg
Product dimension (W × D × H)			260 mmx115.6 mm x44mm
Package dimension (W × D × H)			395 mm x 274 mm x 110mm