

4 Port KM Switch (KM0104)

User Manual



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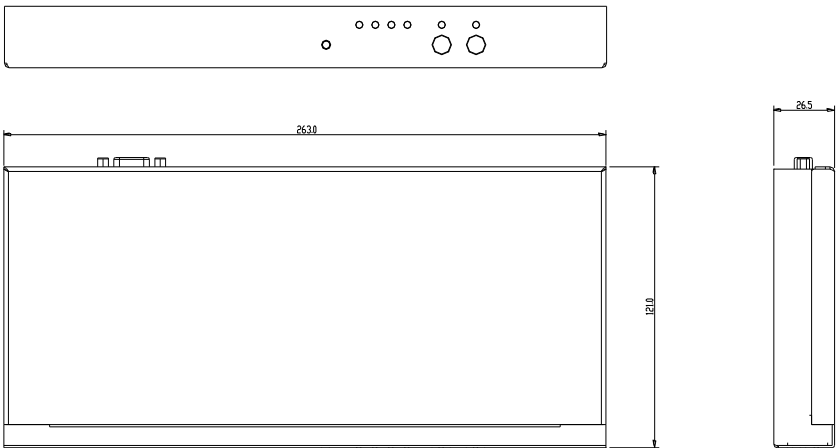
Overview

The 4 Port Keyboard-Mouse Switch enables users to manage and switch KM (Keyboard and Mouse) functions of four connected computers, including multi-head computers. It supports seamless Keyboard-Mouse Command on 4 computers from a single workstation. The KM0104 is completely driverless, requiring no software. It is compatible with any PC and all major operating systems without the need for software downloads.

Features

- Single USB keyboard and mouse control up to 4 computers
- Support stereo audio output
- Support USB2.0 HUB
- Port selection via front panel pushbuttons, keyboard hotkey and mouse cursor
- No software required
- Support hot-plugging
- Support USB-C firmware upgrade
- Provide LED indicator to help you find your current mouse/keyboard location (Optional)
- Management software is available providing customized switching modes (Optional)
- Support RS485 communication management (Baud rate 115200bps)

Structure and Size

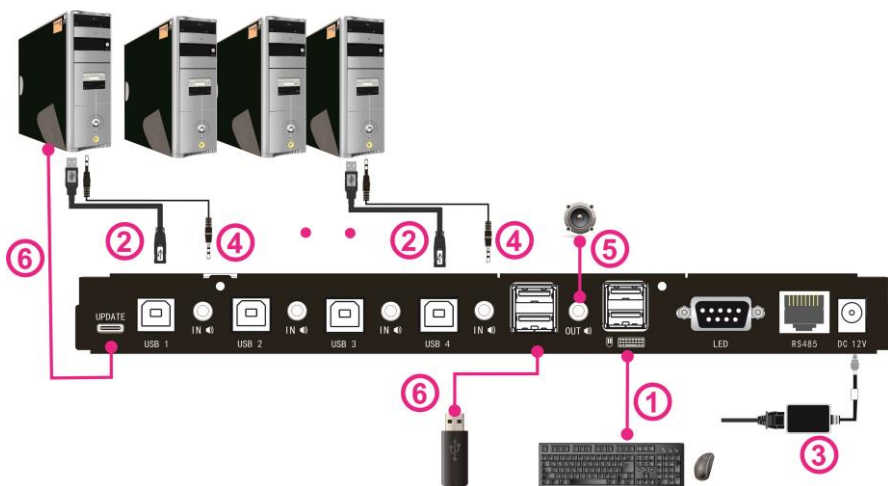


Installation

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

- 1) Please connect USB keyboard and mouse to the USB port of the KM0104(①) **(Notice: Please do not connect keyboard and mouse to the USB2.0 port)**
- 2) Connect computers and KM switch with attached USB cables(②)
- 3) Plug in the power adapter(③)
- 4) Power on the computers, switch between computers easily through push buttons and keyboard hotkey

***The factory default setting is no hotkey. If you need hotkey operation, press the two white [▼] + [▲] key. The hotkey will be activated 2S after power on again.**



- 5) If speaker is required, please plug in the audio port (④⑤)
- 6) If USB2.0 peripherals required, please connect peripherals to USB2.0 port(⑥)

Components



No.	Button	Description
1	▲	Switch Keyboard, Mouse and Audio to Previous PC STATION (1-4): Switch to the previous PC, the corresponding LED light is on The flashing STAT1, STAT2 LED lights indicates normal communication
2	▼	Switch Keyboard, Mouse and Audio to Next PC STATION (1-4): Switch to the previous channel, the corresponding LED light is on The flashing STAT1, STAT2 LED lights indicates normal communication
3	▼ ▲	To enable the hotkey function, unplug the power cable to power off the switch first, and then press the white [▲]+ [▼] button, keep holding on the two buttons, then plug on the power cable to power on the switch, release your fingers from the white [▲]+ [▼] button until you hear two beeps.

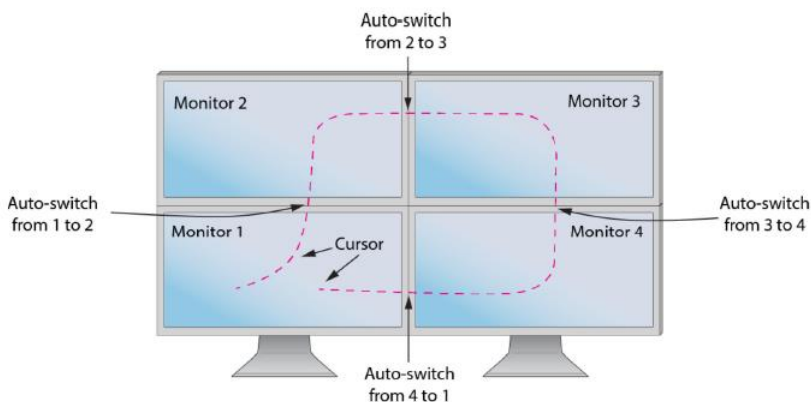
Hotkeys

*The factory default setting is no hotkey. To enable the hotkey function, unplug the power cable to power off the switch first, and then press the white [▲]+[▼] button, keep holding on the two buttons, then plug on the power cable to power on the switch, release your fingers from the white [▲]+[▼] button after you hear two beeps.

Commands	Hotkeys	Description
PC switching	L_Ctrl + L_Ctrl + port#	Switch Keyboard, Mouse, Audio and USB from port 1 to port 4
Mode selection	L_Ctrl + L_Ctrl + M + 0	All PC exit the Cross-display mode
	L_Ctrl + L_Ctrl + M + (1~3)	1: Horizontal Cross-display mode 2: Vertical Cross-display mode 3: Surround Cross-display mode
Cross-display mode	L_Ctrl + L_Ctrl + E	The current PC exits the Cross-display mode
	L_Ctrl + L_Ctrl + S	Current PC (single-head display mode) participates in the Cross-display mode
	L_Ctrl + L_Ctrl + D + (0~3)	The current PC (multi-head display mode) participates in the Cross-display mode, supporting up to 4 displays
Audio switching	L_Ctrl + L_Ctrl + A + 0	Audio unlock (Switch Audio, Keyboard, Mouse and USB)
	L_Ctrl + L_Ctrl + A + port#	Switch Audio only (not Keyboard, Mouse and USB)
HUB switching	L_Ctrl + L_Ctrl + U + 0	USB2.0 unlock (Switch USB2.0, Keyboard, Mouse and Audio)
	L_Ctrl + L_Ctrl + U + port#	Switch USB2.0 only (not Keyboard, Mouse and Audio)
Broadcast	L_Ctrl + L_Ctrl + B	Unlock and lock the broadcast mode, concurrently control the keyboard and mouse of the 4 connected computers under the broadcast mode
Hotkey cycling	L_Ctrl + L_Ctrl + F	L_Ctrl -> L_Shift -> Scroll
Reset to factory default	L_Ctrl + L_Ctrl + R	Restore factory setting

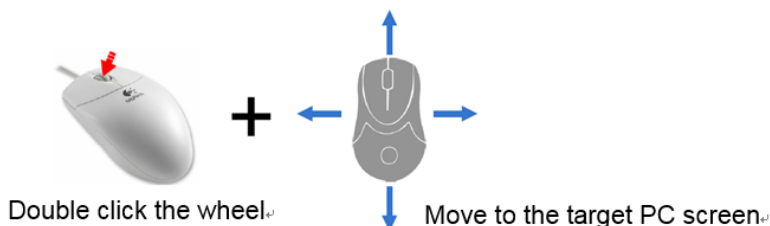
Single-Head Mode KM Switching

Allows users to seamlessly switch between computers by moving the mouse cursor from one display to another, making it easy and efficient for users to switch between PCs.




Multi-Head Mode KM Switching

When using computers with multiple displays, simply press the scroll wheel twice and then move the mouse in the direction of the channel you desire to switch. This feature only works in Multi-Head display mode.



Note: Under the multi-head switching mode, the USB2.0 peripheral cannot be switched.

RS485 Communication Management

	Pin1	Pin2	Pin3	Pin6
	GND	5V	A	B

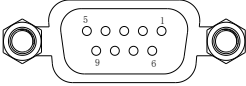
1. Baud rate 115200bps, 8bit, NONE_PARITY

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

KM0104 to RS485 device		
REPORT_KVMs_Status	0xF0	eg: 5A 0B F0 01 01 01 FF 7F FF 3F EC
RS485 device to KM0104		
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

Model			KM0104
Computer Connections			4
Port selection			Pushbuttons, Hotkey, Mouse
Connectors	User Console	Keyboard/Mouse	1 x double-layer USB type A
		Speaker (out)	1 x Min Stereo Audio
	PC ports	Keyboard/Mouse	4 x USB type B
		Speaker (in)	4 x Min Stereo Audio
	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
Button	Port selection		2 x buttons
Power			5V- 12V DC
Power Consumption			3W
Emulation	Keyboard/Mouse		USB
Operating Temperature			0-50°C
Storage Temperature			-20-60°C
Humidity			0-80%RH, Non-condensing
Material			Metal
Weight			0.9kg
Product dimension (W × D × H)			263mm x 121 mm x 26.5mm
Package dimension (W × D × H)			395 mm x 274 mm x 110mm