MKP/MKS Series Matrix KVM Switch 8/16-port with 2/3/4 user consoles

KVM Rear Kit for LCD Console Drawer

User Manual

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Legal Information

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Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - □ Repair or attempted repair by anyone not authorized by us.
 - □ Any damage of the product due to shipment.
 - □ Removal or installation of the product.
 - □ Causes external to the product, such as electric power fluctuation or failure.
 - □ Use of supplies or parts not meeting our specifications.
 - Normal wear and tear.
 - □ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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< Part 2 > Matrix DB-15 KVM Kit

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< Part 1 > Matrix DB-15 KVM < 1.1 > Package Contents

IP



MKP802



MKP1604

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< 1.2 > KVM port connection





- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server

< 1.3 > IP, Remote & Local console connection



How to use a receiver to connect a remote console

Receiver		Local Computer	Monitor	Remot	e VO	
	Front			Ľ	5	Power
	Rear	USB	Ise	Local	Remote	
Region biom				Button to PC	Button to KVM switc	h

The receiver provides a hotkey function for remote console.



< 1.4 > IP console setting

After the cable connection, please take the following steps to configure the IP KVM :

- 1. Download IPKVMsetup.exe
- 2. Double click IPKVMsetup.exe to configure the IP KVM by device setup as below.

Device Setup		
Device	Network Configuration	
Device MAC address C8:EE:08:00:00:7E	IP auto configuration	None 💌
Refresh Devices	IP address	192.168.1.22
Device Type	Subnet mask	255.255.255.0
Enable WLAN Configuration (WLAN Devices only)	Gateway	0.0.0.0
Authentication	Wireless LAN Configuration	1
Super user login	Wireless LAN ESSID	×
Super user password ?		Enable WEP encryption
New super user password	Wireless LAN WEP Key	
New password (confirm)	Query Device	Setup Device
	ОК	Cancel Help

- 3. Click Refresh Device to search the connected IP KVM
- 4. Select the M.A.C. address, which you want to setup, then click Query Device
- 5. Enter Super user login. The default is super
- 6. Enter Super user password. The default is pass
- 7. Enter the new super user password
- 8. Re-enter the new password
- 9. Change the desired IP address / Subnet mask / Gateway, then click Setup Device to confirm the setting to IP KVM
- 10. The default address is as below:--
- The single IP KVM model, such as MKP1602 - http://192.168.1.22
- The dual IP KVM model, such as MKP1604 http://192.168.1.22 (for 1st IP)

http://192.168.1.23 (for 2nd IP)

- 11. Open Internet Explorer (I.E.), version 6.0 or above
- 12. Enter the IP KVM address into the address bar
 - For Single IP http://192.168.1.22
 - For Dual IP http://192.168.1.22 (for 1st IP) http://192.168.1.23 (for 2nd IP)
- 13. Enter username (default is super) Password (default is pass)

Authenticat	e Username and Password !
Username	
Password	
	Login

14. After successful login to IP KVM, the user will enter the main page of IP KVM

< 1.5 > KVM Cascade

- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with CMC-8 cascade cable.



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Cascaded KVMs from level 2 to 8 must be the models of MKS802 / 1602 or MKCS1602 / 3202.

When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).

The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





< 1.6 > Specifications

		MKP802	MKP804
		MKP1602	MKP1604
-	KVM Port		
	Number of ports:	8 or 16	
	Connector:	Combo connector	
	Connectivity:	Combo 4-in-1 KVM	cable
	·	up to 6, 10 & 15 fee	t
-	Local Console		
	Monitor port:	1 x DB-15 VGA (up 1	ю 1600 x 1200)
	Keyboard & mouse port:	2 x USB type conne	ctor for keyboard & mouse
-	Cat6 Remote Console		
	Number of remote port:	1	
	Monitor port:	DB15-pin VGA, up to	o 1600 x 1200
	Keyboard & mouse port:	2 x USB type conne	ctor for keyboard & mouse
	Remote I/O:	RJ45 via Cat5 / Cat	5e / Cat6 cable up to 500 feet
-	IP Remote Console		
	Number of IP console:	1 for MKP802 / MK	P1602
		2 for MKP804 / MK	P1604
	User management:	15-user login, 1 x ac	tiveuser
	Browser:	Internet Explorer, Fi	efox, Safari
	Security:	SSL v3, RSA, AES,	HTTP / HTTPs, CSR
	IP Access:	RJ45 Ethernet per II	² console
-	Expansion:	Up to 240 servers by	y 8-level cascade
-	Compatibility		
	Multi-platform:	Mix PCs, SUN and I	MacG3/G4Mac/iMac
	Support:	Windows 7 / Vista /	2003 / XP, Linux, Unix
-	Power		
	Input:	AC power adapter	
	Consumption:	Max. 48 Watt, Stand	lby5Watt
-	Regulatory Approval:	cUL, FCC, CE	
-	Environmental		
	Operating:	0 to 50°C	
	Storage:	-5 to 60°C	
	Relative humidity:	90%, non-condensir	DC
	Shock:	50G peak acceleration	on (11ms, half-sine wave)
	Vibration:	58~100Hz/0.98G(11ms/cycle)
-	Product Information		
	Dimension (W x D x H):	443 x 171 x 43.6 mr	n / 17.4 x 6.7 x 1.72 inch
	Net weight:	3 kg / 6.5 lb	
-	Packing Information		
	Dimension (W x D x H):	500 x 400 x 90 mm	/ 19.7 x 15.7 x 3.5 inch
	Gross weight:	5 kg / 11 lb	

< Part 2 > Matrix Cat6 KVM

< 2.1 > Package Contents

-MKS802 /1602	 Receiver box for remote cons Power adapter w/ power cord 6ft Combo KVM cable for rec 	sole x 1 I (for receiver) x 1 eiver box x 1
KVM	Rear Kit	back





MKS802

Remote Console 1



MKS1602



MKS803



MKS1603



MKS804



MKS1604



< 2.2 > KVM port connection



- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server



< 2.3 > Local console & remote console connection



How to use a receiver to connect a remote console





< 2.4 > KVM Cascade

- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of MKS802 / 1602 or MKCS1602 / 3202.

When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).

The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





< 2.5 > Specifications

		MKS802 MKS803 MKS804
		MKS1602 MKS1603 MKS1604
-	KVM Port	
	Number of ports:	8 or 16
	Connector:	Combo connector
	Connectivity:	Combo 4-in-1 KVM cable
		up to 6, 10 & 15 feet
-	Local Console	Nil for LCD console drawer version
-	Cat6 Remote Console	
	Number of remote port:	1 for MKS802 / 1602
		2 for MKS803 / 1603
		3 for MKS804 / 1604
	Monitor port:	DB15-pin VGA, up to 1600 x 1200
	Keyboard & mouse port	2 x USB type connector for keyboard & mouse
	Remote I/O:	RJ45 via Cat5 / Cat5e / Cat6 cable up to 500 feet
-	Expansion:	Up to 240 servers by 8-level cascade
-	Compatibility	
	Multi-platform:	Mix PCs, SUN and Mac G3 / G4 Mac / iMac
	Support:	Windows 7 / Vista / 2003 / XP, Linux, Unix
-	Power	
	Input:	AC power adapter
	Consumption:	Max. 48 Watt, Standby 5 Watt
-	Regulatory Approval:	FCC, CE
-	Environmental	
	Operating:	0 to 50°C
	Storage:	-5 to 60°C
	Relative humidity:	90%, non-condensing
	Shock:	50G peak acceleration (11ms, half-sine wave)
	Vibration:	58~100Hz/0.98G (11ms/cycle)

Part 3. Usage

3.1 KVM Button

Power ON

- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer



< 3.2 > Password

The password is enabled by default, the default password is "00000000" eight zeros (**Do not use "0" on number pad**)

Enable password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the hotkey Scroll Lock + Scroll Lock + P
- 3. In SUPERVISOR level, enter "00000000" eight zeros in user name & password field (Do not use "0" on number pad)
- 4. In USER level, press **Space bar + Enter** in user name & password field Remark: Automatic logout after 10 minutes of inactivity

Set your own user name & password

- 1. Login the KVM in SUPERVISOR level by pressing "00000000" eight zeros in user name & password field
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Set password in SUPERVISOR & USER level
 - a. In the left-top row "S" (SUPERVISOR), press Enter to set your own user name & password
 - b. In the row 1 to 8 (USER), press Enter to set your own user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change

Remark: a. Blank has underscore, while SPACE doesn't have

b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

Change your password

- 1. Login the KVM in SUPERVISOR level by pressing your own user name & password
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press **F1** to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Change password in SUPERVISOR & USER level
 - a. In the left-top row "S" (SUPERVISOR), press Enter to change your user name & password
 - b. In the row 1 to 8 (USER), press Enter to change your user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change

Remark: a. Blank has underscore, while SPACE doesn't have

b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

Disable your password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the KVM hotkey Scroll Lock + Scroll Lock + P
- 3. You don't need user name & password to access the KVM OSD menu

Forget your password

Please contact your supplier for further support

Remark:

- You must press the KVM hotkey within 2 seconds
- A beep sound will be heard for successful entering KVM hotkey

< 3.3 > KVM OSD

OSD Menu	PORT NAME BANK: 1 01☆ SYSTEM 02☆ SYSTEM 03☆ SYSTEM 04☆ SYSTEM 05☆ SYSTEM 06☆ SYSTEM 07☆ SYSTEM 08☆ SYSTEM 07☆ SYSTEM 08☆ SYSTEM 08☆ SYSTEM 08☆ SYSTEM 08 USER : SUPERVISOR SCAN TIME : 10 SEC FW1V3
next to the system name	The PC is powered on
next to the system name	The PC is selected
F1	Access F1 MAIN MENU
F2	Logout the OSD menu
F3	Previous menu
Esc	Cancel / Quit
Enter	Complete / Switch to selected port
♠/♣	Switch to previous or next port
PgUp/PgDn	Switch to previous bank or next bank
1/2/3/4	Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 Remark: Display port 17 ~ 32 for 32 port model only

-1 Main Menu	MAIN MENU 🖘 X	
	SELECT OPTION :	
	_01 LANGUAGE	
	02 PORT NAME EDIT	
	03 PORT SEARCH	
	04 USER SECURITY	
	08 OSD MOUSE	
01 LANGUAGE	OSD language change	
02 PORT NAME EDIT	Define port name	
03 PORT SEARCH	Quick searchingby port name	
04 USER SECURITY	Change password	
05 ACCESSLIST	Define user access authority	
06 HOTKEY	Change hotkey	
07 TIME SETTINGS	Modify scan display time interval	

< 3.4 > KVM Hotkey & Remote Console Hotkey

Local Console Hotkey	Function
Scroll Lock + Scroll Lock + Space Bar	Calling OSD menu
Right-button mouse + Esc	Calling OSD menu
Scroll Lock + Scroll Lock +	Switch to previous port
Scroll Lock + Scroll Lock + 🛛 🖊	Switch to next port
Scroll Lock + Scroll Lock + PgUp / PgDn	Switch to previous bank or next bank
Scroll Lock + Scroll Lock + Bank no. + Port no	. Switch to specific port
Scroll Lock + Scroll Lock + B	Turn the buzzer ON and OFF * Default the buzzer is ON
Scroll Lock + Scroll Lock + P	Logout the KVM if password security is ON. Show up the status windows
Advance hotkeys (for Supervisor login or	ıly)
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode
Scroll Lock + Scroll Lock + R	Reset all the KVM settings to factory default *Except User Security settings
Scroll Lock + Scroll Lock + U	Disable and enable password security *Default security is ON
Scroll Lock + Scroll Lock + L	To enable / disable the screen saving function and 10 minutes auto-logout *Default the screen saving is OFF
Remarks: I Example of "Scroll Lock + Scroll Lock - Bank No. : 1 to 8 - Port No. : 01 to 16 - e.g. Bank 1 Port 4 : Scroll Lock + 4 - e.g. Bank 2 Port 16 : Scroll Lock + 4 - e.g. Bank 2 Port 16 : Scroll Lock + 4 - You must press the hotkey within 2 secor - A beep sound will be heard for successful - The numeric keypad is not supported, where the support of the su	+ Bank no. + Port no." Scroll Lock + 1 + 0 + 4 Scroll Lock + 2 + 1 + 6 nds al entering hile in OSD screen, the arrow keys, PgUp,

Remote Console Hotkey	Function
Scroll Lock + Scroll Lock + C	Toggle switch between remote & local port
Scroll Lock + Scroll Lock + Q	Turn the buzzer ON & OFF *Default the buzzer is ON
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds
Scroll Lock + Scroll Lock + A	Auto-adjust the video signal