User Manual

RKP1015 / 1017 - 801/1601
1U 15" / 17" LCD Keyboard Drawer
with PS/2 KVM

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2. Introduction

RKP Series is a combination of keyboard, mouse and monitor into a drawer, with features such as flip-up design, adjustable brackets, built in LCD OSD to provide effective assistant for an administrator to control PC system.

RKP Series provides cost effective for your limited IT budget over using CRT and rack mounting. Also, it will be space saving for your compact environment rack and effective assistant for an administrator to control PC system.

3. Features

- Adjustable mounting brackets from 390 to 790mm (front to rear 19" mount)
- Lightweight aluminium construction—with black anodise finish
- Slim Size keyboard with GlidePoint touch pad mouse
- Standard D-Sub 15-pin VGA input connector
- Supplied with 12V 5A remote power adapter (single power resource)
- Built in On Screen Display controlled by integral membrane switches.
- 1U Height, separate sliding screen and keyboard using unique miniature Cyber slides
- Unique monitor flip-up design allows viewing through closed glass door of cabinet.
- Built-in KVM switch function for easy controlling and monitoring up to 16 residing servers / platforms
- Support eight characters password protection and search PC server name
- Auto scan mode for monitoring PCs and flexible scan time from 5 ~ 99 seconds
- Hot Pluggable—Add or remove computers without powering down the switch
- Easily switch individual button to select the PC channel using the pushbutton channel selector switches, Hot keys, or via the On-Screen

Disclaimer

This information is subject to change without notice. The producer of this manual accepts no responsibility for damage or claims, resulting from misuse or misinterpretation.

4. Package Contents

LCD Monitor Drawer with PS/2 KVM Switch	1 Piece
User Manual	1 Piece
DC Power Adapter	1 Piece
Power Cord	1 Piece
Mounting Bracket	1 Pair
Fasteners	4 Pieces
CD-6 3-in-1 KVM cable	8 Pieces

Before Unpacking

It is very important to locate the LCD Keyboard Drawer in a suitable environment.

- The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the LCD Keyboard Drawer to the related facilities should be well considers too.

Unpacking

The LCD Keyboard Drawer comes with the standard parts shown as above. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

5. Optional Accessories

KVM Cable		
CD-6/10/15	6ft / 10ft / 15ft PS/2 3-in-1 cable	
Cascade Cable		
CA-2 / 6 / 10 / 15 2ft / 6ft / 10ft / 15ft PS/2 3-to-3 ca		
Conversion Adapter		
SUN-31	SUN / iMAC USB to PS/2 adapter	
Others		
	Video Input	
	12V / 24V / 48V DC Power	

6. Peripheral Products

Model	Description	
CV-401 / CV-801 / CV-1601	4-Port / 8-port / 16-Port PS/2 KVM switch	
CV-1602	16-Port 2-Console PS/2 KVM switch	
CV-S801 / CV-S1601	8-Port /16-port USB KVM switch	
CV-S1602	16-port 2-Console USB KVM switch	
CV-101	CAT.5 PS/2 KVM extender	

7. Important Safeguards

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

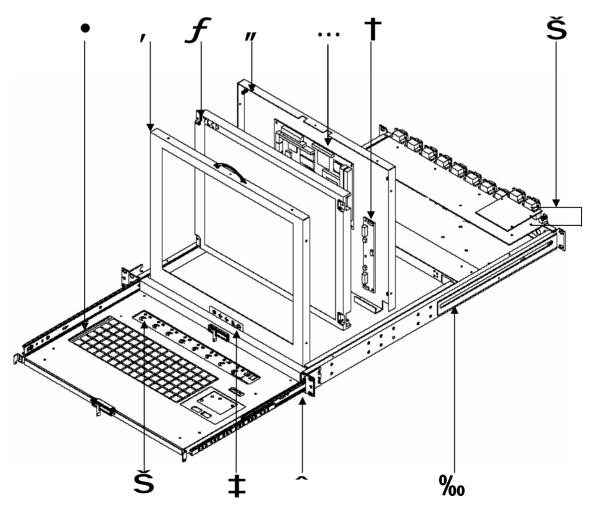
- Unplug the LCD Keyboard Drawer from the power outlet before cleaning.
- Do not spray liquid cleaners or aerosol directly on the device. Wet a cloth with a neutral detergent (e.g. clean water) and squeeze it tight, then clean the screen slightly with it.
- Do not expose the LCD Keyboard Drawer directly to rain, water, moisture or sunlight.
- Avoid pressure on the LCD screen to prevent permanent damage to the display.
- Do not attempt to service the device yourself. Improper operation may void your warranty. Refer all servicing to qualified service personnel.
- Safe storage environment of the LCD Keyboard Drawer is ranging between −20°C and 60°C. Permanent damage could occur if the LCD Keyboard Drawer is stored outside the safe range.
- Unplug the LCD Keyboard Drawer immediately and call qualified service personnel under the following conditions:
 - 1. If the monitor has been exposed to rain, liquid or water.
 - 2. If the monitor has been dropped or the casing has been damaged.

What the warranty does not cover

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

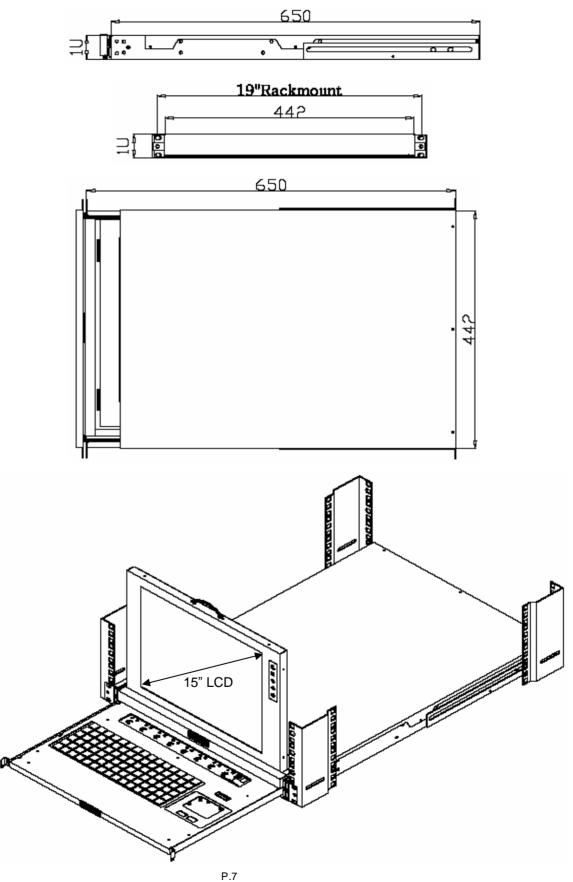
8. Structure Diagram

- 1. PS/2 keyboard
- 2. Aluminium front panel
- 3. Class A active matrix TFT LCD panel
- 4. Rear metal case
- 5. Analog to digital signal converter board
- 6. LCD inverter
- 7. LCD membrane
- 8. Ball bearing telescopic slides
- 9. Adjustable mounting bracket
- 10. KVM membrane & KVM switch board



Dimension Diagram 9.

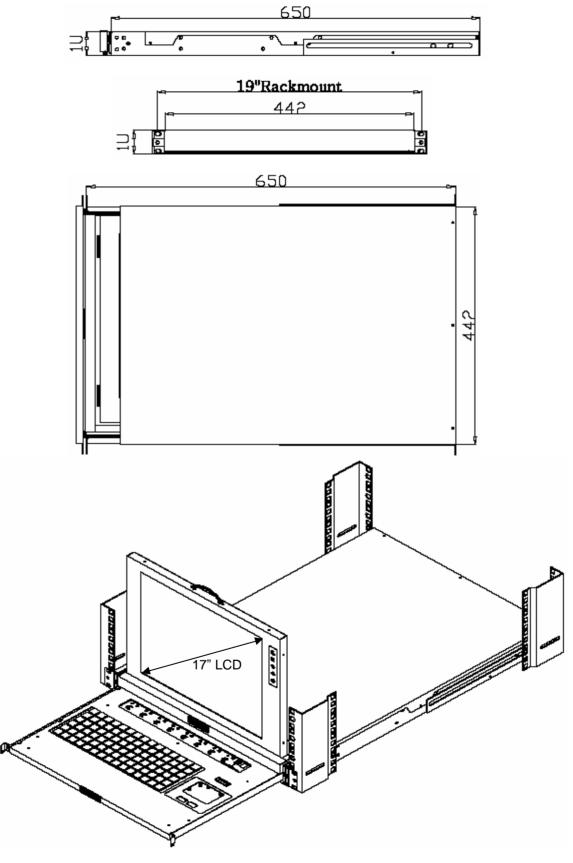
RKP1015-8/1601 1U 15" LCD Keyboard Drawer with PS/2 KVM



Rev.: 1.0

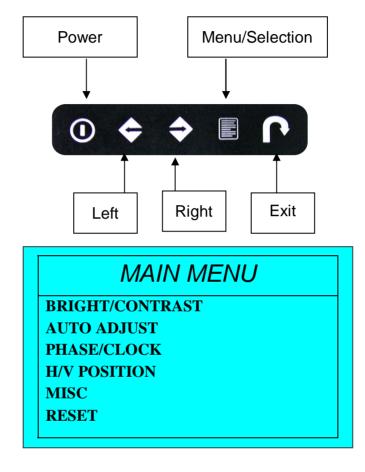
9. Dimension Diagram

RKP1017-8/1601 1U 15" LCD Keyboard Drawer with PS/2 KVM



LCD Session

LCD Membrane Diagram



Main Menu

Bright / Contrast

To enter into the Bright, Black level & Contrast sub-menu

Auto Adjust

- To perform automatic optimisations of all functions
- An "Adjusting" message is displayed during the process

Phase / Clock

• To enter into the phase & clock sub menu

H/V Position

• To enter into the Position sub-menu

MISC

To enter into the MISC sub-menu

Reset

Reset to the default factory settings

LCD Session 10.

Bright / Contrast

1. Brightness 💢

- To perform brightness adjustment of the input RGB signal
- Use the Left & Right button to adjust and button



to "Brightness"

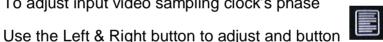
2. Contrast 1

- To adjust the contrast level of the input signal
- Use the Left & Right button to adjust and button to "Contrast"

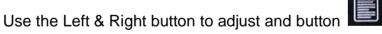


Phase / Clock

- 1. Phase
 - To adjust input video sampling clock's phase



- 2. Clock
 - To adjust input video sampling clock



H/V Position

1. H.Position

To adjust the horizontal size of the frame



Use the Left & Right button to adjust and button

2. V.Position

To adjust the vertical position of the frame



Use the Left & Right button to adjust and button to "V.position".

MISC

1. Information

- The first header row shows the current resolution setup
- The second header row shows the horizontal frequency of the current input signal
- The third header row shows the vertical frequency of the current input signal

2. OSD Timer

To modify the duration of the OSD time-out

3. Color

- a) 5500K
 - Select Colour Temp at 5500K
- b) 6500K
 - Select Colour Temp at 6500K
- c) 9500K
 - Select Colour Temp at 9500K
- d) User
 - Change Colour Temp by manual

4. Language

- To select the language of OSD menu 7 Languages :
 - (1) English
 - (2) Japanese (日本語)
 - (3) Chinese (中文)
 - (4) German
 - (5) Français
 - (6) Espanol
 - (7) Italiano

Resolution Settings

For Microsoft Windows

Step 1 – Press right click on the desktop

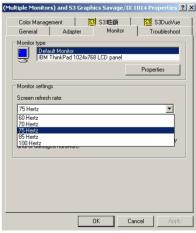
Step 2 - Choose "Properties"



Step 3 - Change the "Screen Resolution"



Step 4 - Change the "Screen refresh rate"



Resolution Settings

For SUN Servers

- Resolution configuration procedures should be run by qualified SUN server administrator
- Sun Servers are using resolution at 1152 x 900 x 76Hz.
- Supported resolution mode for 15" LCD:
- 1024 x 768 x 70/75Hz
- Supported resolution mode for 17" LCD:
- 1280 x 1024 x 75Hz
- You need to change the Sun Server resolution before you connect to LCD Display.
- Please do the following procedures to change the resolution settings:
 - 1. As root:

You may find the following comment "/user/sbin/m64config".

2. To view current resolution:

Type "/user/sbin/m64config – prconf".

To change to 1024x768 @ 70MHz:
 Type "/user/sbin/m64config – res 1024x768x70 now".

4. The screen will be rubbish.

Note: Remember to RESTART the server after these processes.

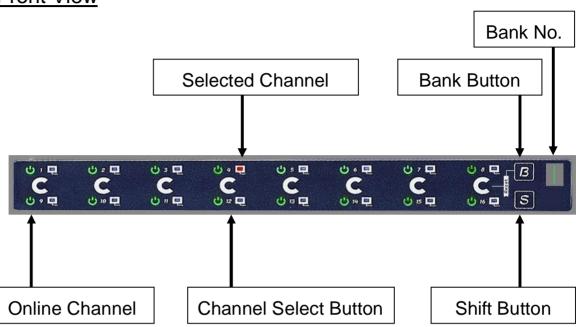
- Then type "pkill Xsun".And Type "pkill Xsession" to restart the Xsession.
- Under Common Desktop Environment (CDE).
- To change the OpenBoot resolution, you can type the following command in OK prompt.
 - 1. In OK prompt, type "setenv output-device screen:r1024x768x70".
 - 2. Type "printenv" to confirm the resolution has been changed to 1024x768x70Hz.

Note: Remember to RESTART the server after these processes

3. Then type, "reset" to restart the system.

KVM Session

Front View



LED Indication

Selected Channel - Displayed channel on monitor & red in

LED.

Channel select button - Press to select channel from 1 - 8.

Shift button - Press & Hold follow with a channel

button to select channel from 9 - 16.

Online Channel - Green LED state the PC has connected

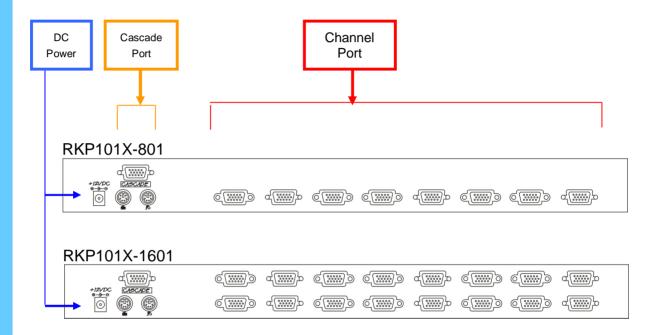
and power on.

Bank no. - Display the Bank no. from 1 - 8.

Bank button - Select the bank from 1 - 8 (for cascade

only).

Rear View



DC Power -connect to external 12V DC power adapter.

Cascade Port -connect to additional KVM switch for channel

expansion.

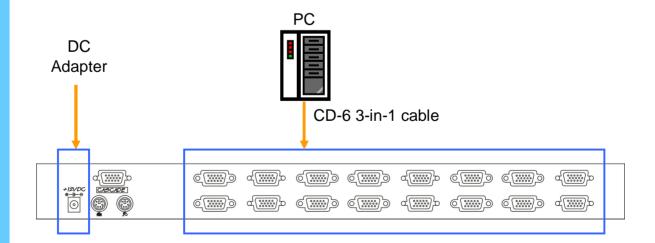
Channel Port -connect to PC computer with CD-6 3-in-1 KVM cable.

Installation Steps

Before installation, please make sure all of peripherals and computers have been turned off.

- 1. Connect the 3-in-1cable with 2 mini-din 6-pin connectors and a HDDB 15-pin connector to the computer ports.
- 2. Connect another end of the cable to KVM switch.
- 3. Plug the power adapter included to the LCD Keyboard Drawer.
- 4. After powering on computers and finishing the boot-up process, you can start LCD keyboard drawer with PS/2 KVM switch.

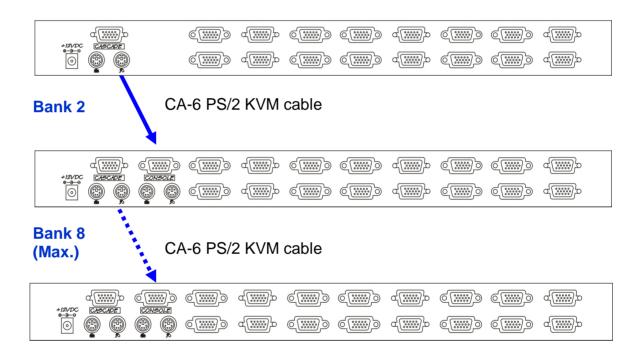
Note: Please don't switch the PC port (i.e. Don't press the push button of KVM switch or run hot key) during the computers are under boot-up.



Cascading

Using CA-6 PS/2 KVM cable to connect from Bank 1's "Cascade port" to Bank 2's "Console port". After connected please press "Bank" & "Channel" button on the front of the PS/2 KVM switch to reset the PS/2 KVM switch.

Bank 1



Cascade level Max.: 8 level

- Max. PC connection is 128 or with additional 122 PCs.
- All PS/2 KVM switch is compatible & can cascade with each other.
- Using CA-6 PS/2 KVM cable to cascade.
- Normal distance from one PS/2 KVM to another is 15 feet.

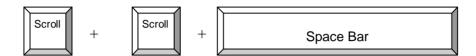
- 1. The channels that have PC connected and it is switch on will have a green LED on that channel.
- 2. The red LED will indicate the selected channel.
- 3. 7 segments LED will display the bank number.
- 4. Press channel button to select the channel.
- 5. Enter the password, default is "00000000" eight zeros.
- 6. Otherwise the keyboard & mouse will be locked.
- 7. If you forget your password, send back to Manufacturer.

HotKey Command

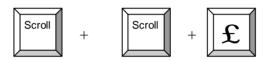
- Simple key sequence.
- Press "Scroll Lock" twice within 2 seconds.
- Follow with a beep sound, going into the hot key mode.
- Need to key in the hot key within 2 seconds.
- Go back to Operation System Control state.

Hot-key Command Operation

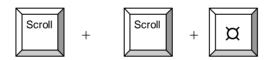
1. Calling OSD Menu



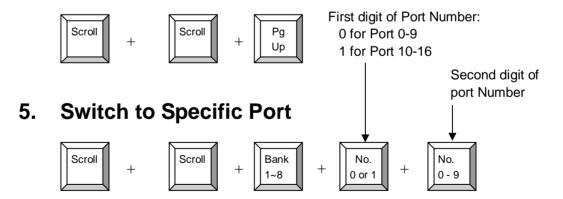
2. Switch to Previous Port (powered on PC only)



3. Switch to Next Power On Port (powered on PC only)



4. Switch to Previous Bank



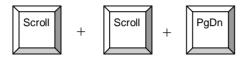
Example:

a) Bank 1 Port 4

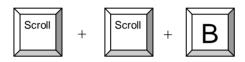
b) Bank 2 Port 16

HotKey Command Operation

6. Switch to Next Bank

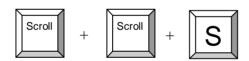


7. Enable / Disable beeper sound



Note: The default Beeper function is ON and beeper control is only for

8. Auto Scan for Powered on PC



9. Reset to factory Default Setting



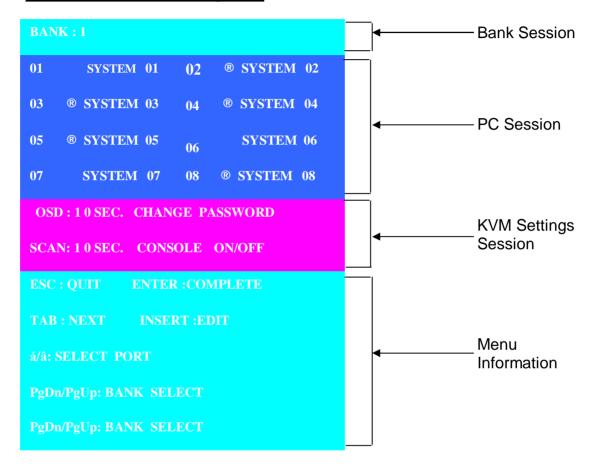
Note: Not available for password reset.

10. Find Port by name



Note: When the above dialogue appear, type the PC name and the OSD Menu will search PC name starting from 1st powered on PC port.

OSD Structure Diagram



OSD Menu Operation

Use "Tab" key to select session like Bank, PC, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc...

Bank Session

Use Page Up & Page Down to switch previous or next bank

PC Session

- 1. "®" next to the PC name represents the PC system is powered on
- 2. Use up arrow key "á" or down arrow key "â" to select port for destination PC name and press "Enter" to select
- 3. Edit PC name Press "Ins" key for editing PC name

Note: PC name should not be more than 8 characters.

4. When editing is finished press "Enter".

KVM Settings Session

1. OSD

- OSD Menu on screen time default is 10 seconds.
- It can be modified from 05 99 seconds.

2. Scan

- Scan interval from one PC port to next PC port when applying auto scan, its default is 10 seconds.
- It can be modified to 99 seconds for maximum.

3. Change Password

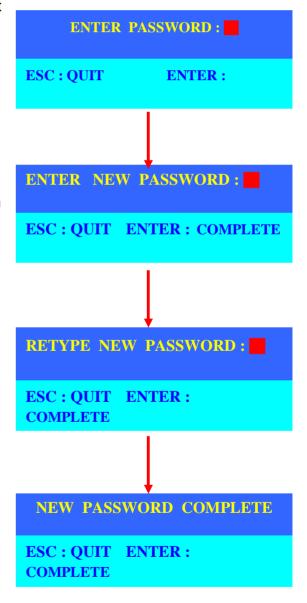
- Default password "00000000"8 zeros
- Choose "Change Password" in KVM Setting Session.
- Key-in the existing password.
- Enter the New Password.
- Re-Enter the New Password.
- Changing Password complete.
- The steps are shown as next picture:

4. Console On/OFF

- ON any user can use the console
- OFF user is not allowed to use the console port, unless password is entered.
- Default OFF, you need to key-in password.

5. Escape

 When the following screen is appeared, you can press "ESC" key to escape.



102

?SYSTEM 02

13. FAQ

- 1. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause the keyboard error or keyboard is not detected at PC side.
- 2. The computer boot up fine, but keyboard doesn't work.
 - Make sure the keyboard works when directly plugged into the computer.
 - Try a different keyboard, but use only 101, 102 or 104-key keyboard.
- 3. The Mouse is not detected during PC boot up.
 - Make sure the mouse works when directly plugged into the computer.
 - Make sure the mouse is a true PS/2 mouse. A combo mouse will work just as long as it is set for PS/2 mode with the correct adapter. Try a different mouse.
 - Avoid moving the mouse or pressing the mouse buttons when switching ports.
 - Avoiding switching ports during shutting down the PC process.
 - When you switch one PC port to another PC port, the best scan time setting need to be set to 5 seconds or more. Normally, the VGA monitor change one resolution mode to another will take one or two seconds. So, the scan time is not recommended to below 5 seconds.
- 4. Sun Server connection problem.

PS/2 KVM switch are using standard PS/2 type keyboard, mouse and D-sub 15pin VGA for connection. If you need to connect Sun Server to PS/2 KVM switch, you need a separate converter kit.

- 5. Sun 31 Kit
 - Convert USB to P/S 2 Keyboard & Mouse.
 - New model Sun Micro Server are using D-sub 15 pin Standard VGA.

14. Technical Specification

KVM

Item	Specification		
KVM Channel Port	RKP101X-801: 8 port / RKP101X-1601: 16 port		
KVM Channel Interface	HDDB 15 pin		
	PS/2 Keyboard: Mini Din 6 pin Female		
PC Computer Interface	PS/2 Mouse: Mini Din 6 pin Female		
	VGA : HDDB 15pin Female		
	PS/2 Keyboard: Mini Din 6 pin Female		
Cascade Port Connector	PS/2 Mouse: Mini Din 6 pin Female		
	VGA: HDDB 15pin Female		
KVM Cable Connection	3-in-one HDDB 15-pin KVM Cable (CA-6/ 10/ 15)		
PC selection	On Screen Display, Hot Key & Push Button		
LED	1 Bank LED		
LED	4 / 8 / 16 Online LED (Green) & Selected LED (Red)		
On Screen Display Control	Yes		
Scan Mode Intervals	5~99 Sec.		
VGA Resolution	1,920 x 1,440		
Bandwidth	200MHz		
Cascade MAX. Level	8 levels with addition 112 PCs connection		
Housing	Metal		
Power Adapter	DC 12V 1A		
Operation Temperature	0~40 °C		
Storage Temperature	-20 ~ 60℃		
Humidity	0~80%, Non-Condensing		

14. Technical Specification

LCD

Item	Description		
LCD Screen Manufacturer	SAMSUNG		
LCD Origin	South Korea		
Panel	15" TFT	17" TFT	
Resolution	1,024 x 768	1,280 x 1,024	
Brightness	300 cd/m2	350 cd/m2	
Color	16.2 Million	16.2 Million	
Contrast Ratio	450:1	350:1	
Viewing Angle	140° x 125°	140° x 120°	
Display Area	304 x 228 mm	337 x 270 mm	
Pixel Pitch	0.297 mm	0.264 mm	
Response Time (Tr)	5ms		
Response Time (Tf)	20ms		
Back Light	4 x Cold Cathode Fluorescent Tube		
Horizontal Sync.	48.4 kHz	64 ~ 80 kHz	
Vertical Sync.	65 MHz	60 ~ 75 Hz	
Input Signal	Analog RGB 0.7Vp-p		
Power Management	Power Management VESA DPMS		
	Brightness, Contract, Colour, Clock		
OSD Control	H.Position, V.Position, Phase, Scaling		
OSD Control	Auto Config., Input Select, Multi-Window		
	Clear EEPROM, OSD adjust		
Power Input	12V DC Adapter	12V DC Adapter	
Video Input	15-pin D-Sub Connec	15-pin D-Sub Connector	
Dimension	43.9(W) x 4.45(H) x 65(D) cm		
Weight	RKP1015-801/1601 : 11 / 12 kg RKP1017-801/1601 : 12 / 13 kg		