

# KVM Switch 4/8/16 Port

## Overview

4/8/16 port KVM switch can access multiple computers from one keyboard, mouse and monitor. There is no interface card or software to configure. Installation is as easy as connecting cables between 8/16 ports KVM switch and your computers. Operation is as simple as pressing push button on the front panel and entering hot-key command

## Features

4/8/16 port KVM switch is 19" rack mount size design. Support Microsoft Intellimouse, Microsoft Intellimouse Explorer, Logitech Net Mouse or the other fully compatible MS mouse.

Provide Console PS/2 to PC serial mouse conversion

Support DOS, Win3.X, Win95/98/98SE/2000/ME/XP, WinNT, Netware, Unix, Linux

Hot Plug -Add PCs or Remove Connected PCs for Maintenance without Powering Down the KVM switch or PCs.

High Video Quality - Up To 1920X1440, Bandwidth: 200MHz  
No Software Required - easy PC selection via On Screen Display Manual, Push Buttons, Hot Keys

Support eight characters password protection and search PC server name

Auto Scan Mode for monitoring PCs and flexible Scan time from 5-99 seconds

Keyboard status restored when switching PCs

LED Display for easy status monitoring

Buzzer sound for switching port confirmation.

Using Standard Keyboard, VGA, Mouse cable.

Built-in one extra daisy chain port and no waste any PC port

No DIP switch setting needed and auto detect daisy chain bank.

## Installation

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

1. Connect the Keyboard, VGA, Mouse cables to the computer ports of KVM switch
2. Connect the Keyboard, VGA monitor, and Mouse to the console port of KVM switch
3. After Powering on computers and finishing the boot-up process, you can start to go 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 process.

## Package Contents

4, 8 or 16 port KVM Switch	1 PCS
User's manual	1 PCS
AC to DC Power Adapter	1 PCS
Rack Mount Kit	1 SET
Daisy Chain Cable	1 SET



Your Good Way on

## KVM Switch

► 2/4 Port  
8/16 Port

Connect 2/4/8/16 Computers  
to one **Keyboard, VGA, Mouse**

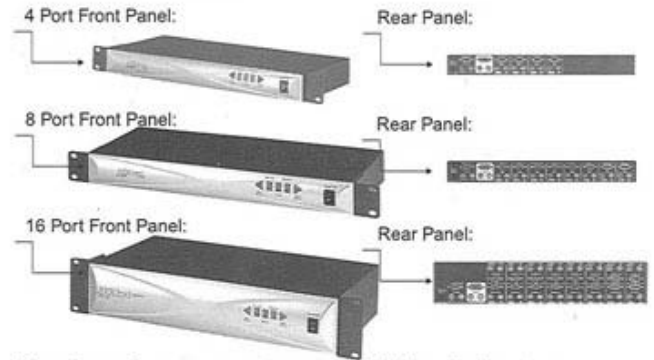
## Technical Specifications

Model No.	4 Port	8 Port	16 Port
PC Port	4	8	16
Console Port	1	1	1
PC Port Connector (All Female Type)	PS/2 Keyboard mini Din 6 pin PS/2 Mouse Mini Din 6 pin VGA HDDB 15pin		
Console Port Connector (All Female Type)	PS/2 Keyboard mini Din 6 pin PS/2 Mouse Mini Din 6 pin VGA HDDB 15pin		
Daisy Chain Port Connector (All Female Type)	PS/2 Keyboard mini Din 6 pin PS/2 Mouse Mini Din 6 pin VGA HDDB 15pin		
PC selection	On Screen Display Manual, Hot Key, Push Button		
7 segment LED	One Bank LED, Two PC Port LEDs		
On Screen Display Control	Yes		
Scan Intervals	5-99 Sec.		
Keyboard Emulation	PS/2		
Mouse Emulation	PS/2		
Mouse Conversion (Only Console port to PC port)	Console PS/2 to each PC port serial mouse		
VGA Resolution	1920X1440, DDC2 B		
Bandwidth	200MHz		
Daisy Chain MAX Level	8 levels		
MAX PC Connection	116	120	128
Housing	Metal		
Power Adapter	DC 9-12V		
Operation Temperature.	0-40°C		
Storage Temperature	-20 - 80°C		
Humidity	0-80%, Non-Condensing		
Size	19" Rack Mount / 1RU		
Dimension(cm)	41 X 17.5 X 4.7		41 X 24 X 8.4
Weight(kg)	3.2		3.5

## System Requirements

Model No.	4 Port / 8 Port	16 Port
Console sid	One VGA Monitor One PS/2 Keyboard One PS/2 Mouse	One VGA Monitor One PS/2 Keyboard One PS/2 Mouse
Computer side	4/8 HDDB 15 pin male to male VGA cables 4/8 PS/2 cable male to male for Keyboard 4/8 PS/2 cables male to male for Mouse	6 HDDB 15 pin male to male VGA cables 16 PS/2 cables male to male for Keyboard 16 PS/2 cables male to male for Mouse
Daisy-chain In	One HDDB 15 pin male to male VGA cables One PS/2 cables male to male for Keyboard One PS/2 cables male to male for Mouse	One HDDB 15 pin male to male VGA cables One PS/2 cables male to male for Keyboard One PS/2 cables male to male for Mouse

## Product Details



After Powering on computers and finishing the boot-up process, you can start to go KVM switch.

## Usage

### The power on state of 4/8/16 port KVM switch:

When you power on KVM switch, it will ask you the password, **the default password value is eight zero "00000000"**. Please key in eight zero and enter the same value at retype field.

**Note:** Before you are not familiar with the operation of OSD manual, please don't change the password 0 i.e. keep default eight zero (00000000) value. Otherwise, if you have set the password and unfortunately forget the pass-word, you need send it back to your distributor for maintaining the password.

### The Push Buttons:

(4 Port)

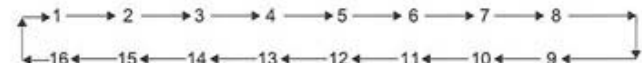


Pressing the button cyclically through all the ports.

(8 Port)



(16 Port)



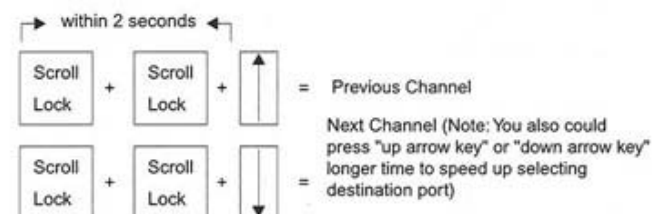
### LED Indication:

You can press the button in order like mentioned-above diagram. When you select one of sixteen PCs ports and this PC is powered on, the selected port LED is lit. When you select one of sixteen PC ports and this PC is shut down or disconnected a PC, the selected port LED will flash.

### Keyboard Hot Key Commands:

You can also conveniently command the KVM switch by switching ports through simple key sequences. To send commands to KVM switch, the "SCROLL LOCK" key must be pressed twice within 2 seconds. You will hear a beep for confirmation and the keyboard is in hot key mode. If you have not pressed any key in hot key mode within 2 seconds (It means to key in any key follows up "Scroll Lock" "Scroll Lock" key), the keyboard will back to under Operation System control state.

Below are the different hot key commands:



Scroll Lock + Scroll Lock + Page Up = Previous Bank

Scroll Lock + Scroll Lock + Page Down = Next Bank

### To select PC port:

Scroll Lock + Scroll Lock + Bank No. 1~8 + Bank No. 1~8 + Port No. 1~4(4 port) 1~8(8 port) 1~6(16 port)

Scroll Lock + Scroll Lock + B = Beeper  
(Note: The default Beeper function is ON)

Scroll Lock + Scroll Lock + S = Auto Scan

To get out of Auto Scan Mode, Press any key or SPACE bar.

Scroll Lock + Scroll Lock + R = OSD default value  
(Note: Not including password)

### ROM REFLASH

Scroll Lock + Scroll Lock + F = Search the same PC name  
(Note: Search PC name starting from 1st PC port)

FIND: █

Scroll Lock + Scroll Lock + Space bar = On Screen Display Manual

## On Screen Display Operation

When you pop up the OSD manual window go through the hot key, you will see the following small window on your monitor.

```

BANK:1
01 SYSTEM 01 02 SYSTEM 02
03 SYSTEM 03 04 SYSTEM 04
05 SYSTEM 05 06 SYSTEM 06
07 SYSTEM 07 08 SYSTEM 08
09 SYSTEM 09 10 SYSTEM 10
11 SYSTEM 11 12 SYSTEM 12
13 SYSTEM 12 14 SYSTEM 14
15 SYSTEM 13 16 SYSTEM 16
OSD: 10 SEC. CHANGE PASSWORD
SCAN: 10 SEC. CONSOLE ON/OFF
ESC:QUIT ENTER:COMPLETE
TAB:NEXT INSERT:EDIT
↑/↓:SELECT PORT
PgDn/PgUp:BANK SELECT
    
```

a. The 1ST line bar is Bank no.

b. The 2<sup>nd</sup> block is your PC system name list. You will find the system number list from 01 to 04 (if the current box is 4 port) or from 01 to 8 (if the current box no. is 8 port) or from 01 to 16 (if the current box no. is 16 port). You can define your PC name in maximum 8 characters. The factory default of 16 port KVM switch PC name is from "SYSTEM 01", "SYSTEM 02", "SYSTEM 16" and 8 port KVM switch is from "SYSTEM 01", "SYSTEM 02", "SYSTEM 08". Besides, the sun symbol "☀" near to the PC name represents the PC system is powered on.

To use up arrow key ↑ or down arrow key ↓ to select port for destination PC name. After you have selected the PC port already, you can press the ENTER Key to switch the PC port as you like immediately

To use PgUp key or PgDn key for selecting previous or next Box no. (or Bank No.)

BANK:1

01 SYSTEM 01 02 SYSTEM 02

To press "INS" key for editing PC name.

After finishing the edit, please press "Enter" key for confirmation.

To use "Tab" key to select items like BOX, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc

```

15 SYSTEM 15 16 SYSTEM 16
OSD: 10 SEC. CHANGE PASSWORD
SCAN: 10 SEC. CONSOLE ON/OFF
ESC:QUIT ENTER:COMPLETE
TAB:NEXT INSERT:EDIT
    
```

- The "OSD: 10 SEC" means that the OSD windows exists 10 sec. on your monitor. You can modify it from 05 sec to 99 sec. The factory default value is 10 sec..
- The "SCAN TIME" means that scan interval from one PC port to next PC port. The default SCAN time is 10 sec and the maximum scan time is 99 sec.
- The "CHANGE PASSWORD" is for user to avoid all PC systems to be intruded by the other person. The default password is 8 digits "00000000".

ENTER PASSWORD: █

ESC:QUIT ENTER:COMPLETE

There is an enter password window showed out when you select this item and then press the Enter. The maximum password is eight digits. After you key in the password already and press the Enter key, there is another window for confirming your typed password.

ENTER NEW PASSWORD: █

ESC:QUIT ENTER:COMPLETE

RETYPE NEW PASSWORD: █

ESC:QUIT ENTER:COMPLETE

You need to retype the password again for rechecking the password is matched or not.

NEW PASSWORD COMPLETE

ESC:QUIT ENTER:COMPLETE

- The "CONSOLE ON/OFF" means to manage the console of KVM switch. If you select "CONSOLE ON", it means that any user can use the console. If you select "CONSOLE OFF" (factory default OFF state), it means that any user will not be allowed to use the console unless you enter the password. When you enter the password already and pass the KVM switch authentication, the CONSOLE will be set to ON. After you finish using KVM switch, please don't forget to set up CONSOLE ON state to OFF state. Besides, if current CONSOLE is ON state and you reset KVM switch, the CONSOLE will be set up ON state back to OFF state.
- When you finish the set up of PC name and get out of OSD setting mode, you will find the PC name showed at the up-left corner of monitor. Now, you can use ESC key to clear the message right away if you don't need it.

- f. If you want OSD returning back to factory default value, you can execute "SCROLL LOCK", "SCROLL LOCK" , "R" keys in order. The Seven segment LEDs on the front panel will be flashed during the refresh process.

### ROM REFLASH

When the OSD value back to default setting, the seven segment LEDs on the front panel will stop flashing

## Application

4/8/16 Port



4 Port 

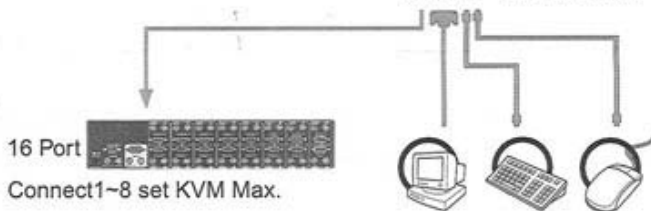
Connect1~8 set KVM Max.

8 Port 

Connect1~8 set KVM Max.

16 Port 

Connect1~8 set KVM Max.



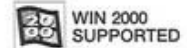
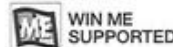
When you switch one PC port to another PC port, the best scan time setting need to be set to 5 sec. or more. Normally, it takes one or two seconds to change the resolution mode of VGA monitor to another, so the scan time is not recommended to be less than 5 seconds.

## CERTIFICATIONS



## Accessory product

1. KVM Switch cable  
(Daisy Chain Cble)
2. Adapter



## Troubleshooting

Ensure that all cables are well seated. Label all of cables with the number for each respective computer to avoid confusion.

1. The Power Jack polarity is center positive and the power adapter need be DC 9~12V
2. 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.
3. 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.
4. 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.  
Avoiding moving the mouse or pressing the mouse buttons when switching ports.  
Avoiding switching ports during shutting down the PC process.