Rack Mount KVM over IP Switch

(KVM-0801IP / KVM-1601IP)

User Manual

Warranty & Safety Information

FS.COM provides a limited warranty for twelve (12) months from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.

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Caution: Multiple power sources may be provided. To de-energize, all power connections need to be removed, including RPS cable if provided.

Caution: No user serviceable parts inside. Must be serviced by technically qualified personnel.

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Chapter 1 Product Overview

1.1 Product Introduction

KVM - over – IP (Hereinafter refers to IP-KVM) reloads the local keyboard, mouse and video to a remote management console, operator can safely get the BIOS level access, maintenance, support and recover system fault by using the standard Internet browser. It has passed SLL security certification and has been encrypted.

IP-KVM can easily access and control the remote KVM via LAN or Internet. It gathers the compressed video signal and the keyboard/mouse signal, then converts them into digital signal and transmits to the remote computer. IP-KVM supports remote access and provides solutions for control non-invasion remote.

It is easy and fast to install the KVM console; you just need to connect corresponding cables to the right ports of KVM and its module without software configuration.

1.2 Product Features

- Access and control up to8/16computers
- By daisy chaining up to 31 additional Combo-KVM, as many as 512 computers can be controlled from the original KVM console which support 8 or 16 ports KVM seamless mixed cascade connection
- Auto PS/2 and USB interface detection
- Two level password security--only authorized users view and control computers; up to four users and an administrator with a separate profile for each
- USB or PS/2 keyboard emulation--computer boot even the console focus is else where
- Convenient computer switching via front panel pushbuttons, hotkeys, OSD menu or mouse
- Auto scan feature for monitoring user-selected computers
- Hot pluggable --add or remove computers without having to power down the switch
- Broadcast mode--operations simultaneously performed on all selected computers
- Quickly select your computer by naming the server or inputting SN number of the server
- Manage server all around the world
- Remote access to the KVM(Keyboard, video and mouse) through modem
- Support any operating system even in BIOS level, during start up or in blue screen
- Support virtual media and hardware redirection
- Supports JAVA browser remote control
- All transmitting data are encrypted with SSL 265 bits

- SSL certificate management
- Automatically senses video resolution for best possible screen capture
- High-performance mouse tracking and synchronization

1.3 Appearance

KVM-1601IP

Front view

Rear View

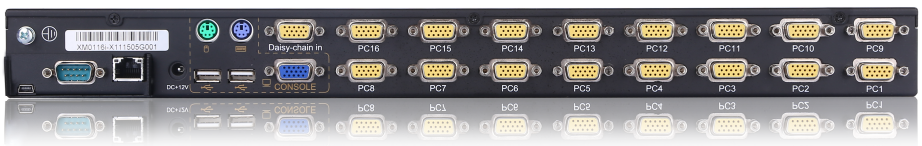


Figure 1-1

Chapter 2 Hardware Installation

2.1 Rack Mounting

The IP-KVM can be put on the desktop or rack mounted in standard 19" /1U rack:
Make sure all the connecting computers and external device are shut down before installation.
Put the KVM switch in a fit place; screw the brackets to the two sides of the switch, then screw the switch to the 19" rack. Keep a certain distance between the host computer, switch, monitor, keyboard and mouse when installation.

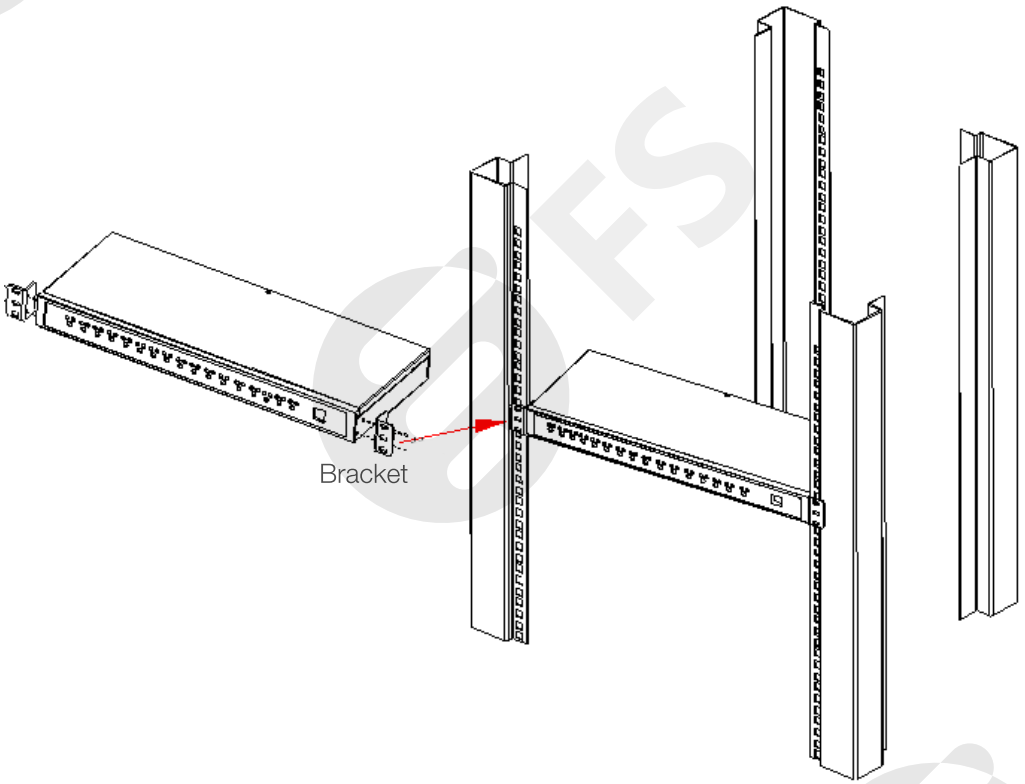


Figure 2-1

2.2 System Requirement

Hardware

Chapter 2 Hardware Installation

Item	Description
Local Host	8 or 16 PC/server
Local Console	One USB keyboard, one USB mouse and one monitor
Remote Console	1 PC or multiple computers connected to the network

Table2-1

Software

Item	Description
Local Host	8 or 16 PC/server
Remote Console	(1) Java operating environment: version1.4.2 or higher (2) Browser: Microsoft Internet Explorer (version6.0 and above or Netscape or Mozilla or Safari)

Table2-2

2.3 Single Station Installation

(Take KVM-0801IP/KVM-1601IP as an example)

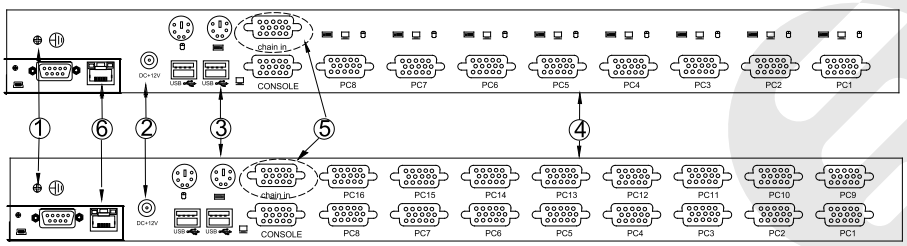


Figure 2-2

Chapter 2 Hardware Installation

No.	Explanation
1	Ground Connection Screw
2	Power Input
3	Local Console
4	PC Connection Port
5	Cascade port
6	IP Port

Table2-3

Installation Steps:

- Make sure the IP KVM has been connected to the ground.
- Connect local console keyboard, monitor and mouse to the console port of the KVM device (supports USB and PS/2).
- Connect the host computer with the KVM switch according to number 3 in the diagram.
- Connect the LAN port to the Internet (see number 4 in below diagram).
- Connect the 12V power adapter to the power socket.

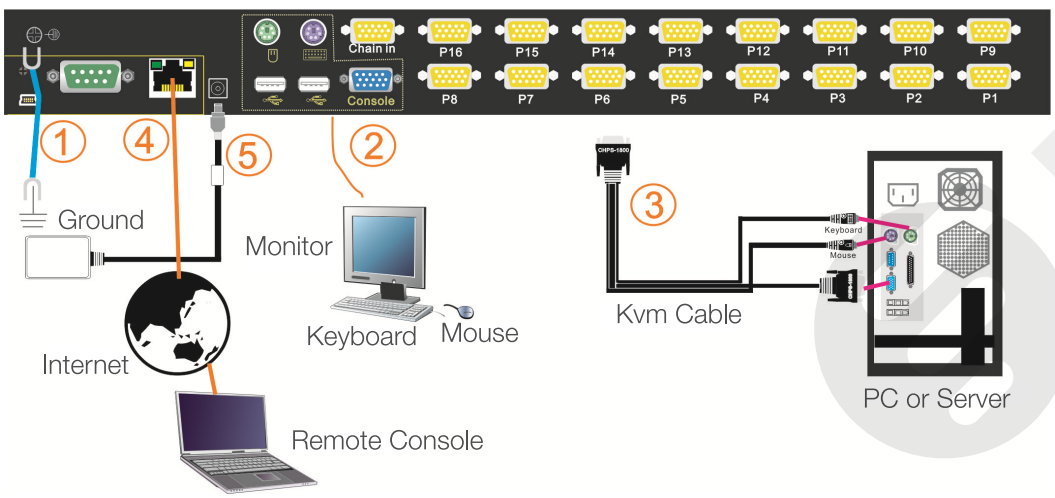


Figure 2-3

Chapter 2 Hardware Installation

Cables: To ensure signal integrity and simplify cable layout, we strongly recommend you using high-quality cables of different length as shown in below table.

Notice: All the three cables can be used to connect the KVM switch to servers. If there is no special requirement, we will send KVM signal cable-USB by default

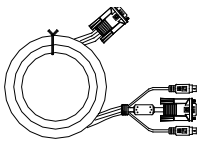
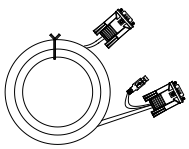
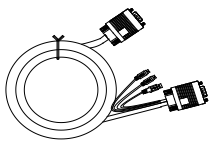
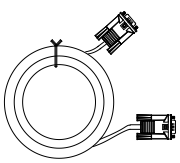
No.	Function	Model	Cable port
①	KVM signal cable—PS/2 	FH-1800（1.8M） FH-3000(3M) FH-5000(5M)	PC or Server port: Keyboard：6pin MIN-DIN male Mouse：6pin MIN-DIN male Display：15pin HDB female
			KVM port 15pin HDB male
	KVM signal cable—USB 	FH-1802 (1.8M)	PC or Server port: USB port：USB A TYPE(female) Display port：15pin HDB male
			KVM port 15pin HDB male
	KVM signal cable—COMBO 	FH-1801(1.8M) Note: USB port can't be connected to the PC with PS/2 port at the same time.	PC or Server port: USB：USB A TYPE(female) Display：15pin HDB male Keyboard：6pin MIN-DIN male Mouse：6pin MIN-DIN male
			KVM port 15pin HDB male
②	Cascade cable 	FH-3000(3M)	15pin HDB male

Table 2-4

2.4 Cascade Installation

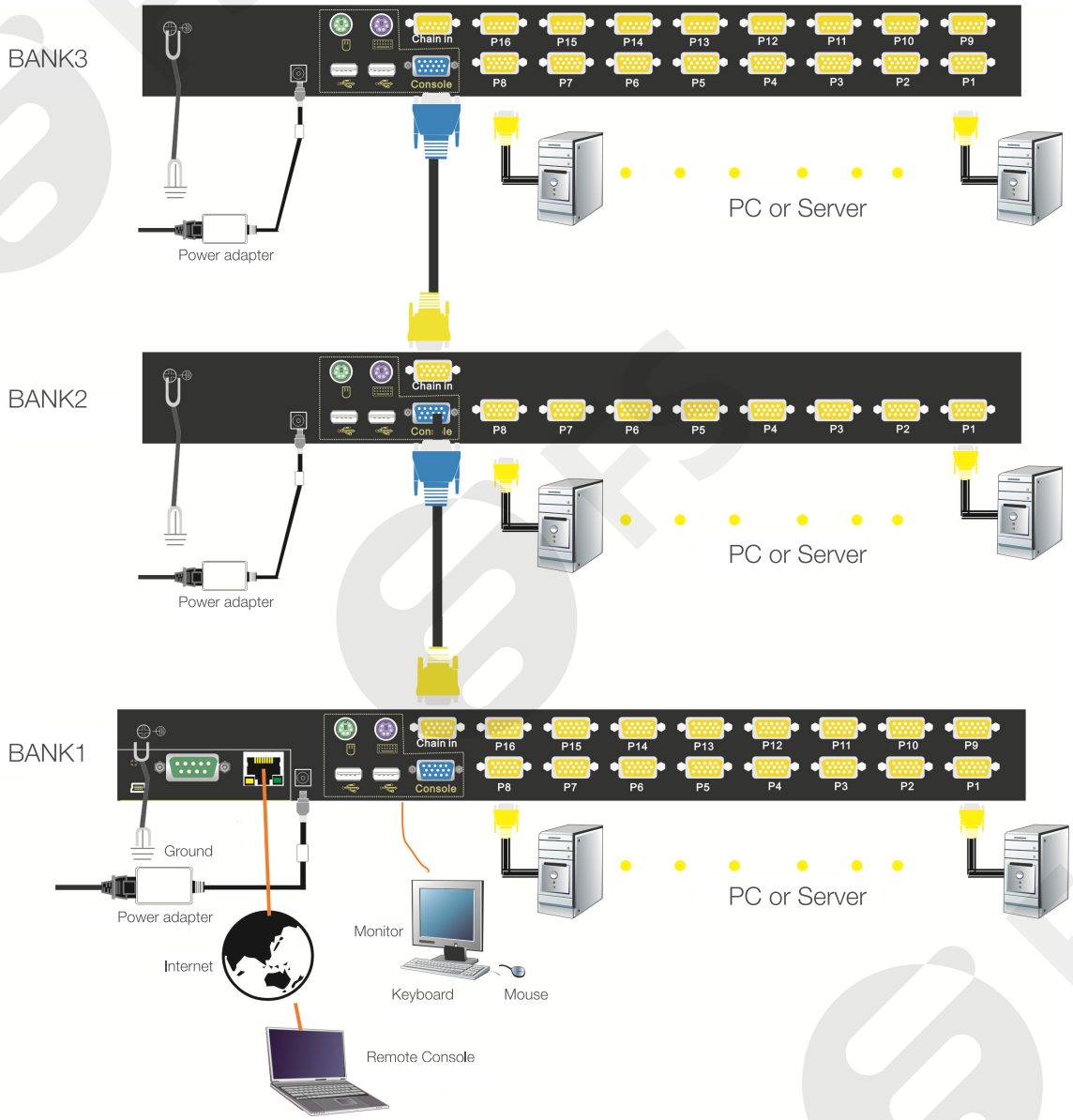


Figure 2-4

Explanation:

- Plug the yellow port of daisy chaining cable in the yellow “Daisy-Chain in” DB 15 port on the KVM KVM-0801IP/KVM-1601IP.
- Plug the other blue port in the blue “Console” DB 15 port on the KVM KVM-0801IP/KVM-1601IP.
- Repeat above steps according to above diagram, it can maximum cascade up to 32 KVM switches.

2.5 When the server is up and running

The KVM-over-IP gives you a full control over the remote server. The Management Console allows you to access the remote server’s graphics, keyboard and mouse and to send special commands to the server. You can also perform periodic maintenance of the server. Using the Console Redirection Service, you are able to do the following:

- Restart the system.
- Watch the boot process.
- Boot the system from a separate partition to load the diagnostic environment.
- Run special diagnostic program.

When the server is dead

Obviously, fixing hardware defects is not possible through a remote management device.
Nevertheless KVM-over-IP gives the administrator valuable information about the type of a hardware failure. Serious hardware failures can be categorized into five different categories with different chances to happen:

- Hard disk failure 50%
- Power cable detached, power supply failure 28%
- CPU, controll, main board failure 10%
- CPU fan failure 8%
- RAM failure 4%

Using KVM-over-IP, administrators can determine which kind of serious hardware failure has occurred.

Type of Failure	Detected by
Hard disk failure	Console screen, CMOS set-up information
Power cable detached, power supply failure	Server remains in power off state after power on command has been given
CPU Controller, main board failure.	Power supply is on, but there is no video output
CPU fan failure	By server specific management software
RAM failure	Boot-Sequence on boot console

Table2-5

Addresses, phone number and fax number also have been listed at www.fs.com. Please e- mail us at sales@fs.com or call us for assistance. All statements, technical information, and recommendations related to the products here are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact FS for more information.

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