

# 17" USB VGA LCD KVM over IP switch (XL1708i / XL1716i)



## Overview

### 1.1 Brief Introduction

KVM - over - IP (Hereinafter refers to IP-KVM) redirects the local keyboard, mouse and video data to a remote administration console. It allows you to control one or many computers locally at the server site or remotely via the Internet using a standard browser. You can securely gain BIOS level access to systems for maintenance, support, or failure recovery over the Internet. Communication is secure via SSL authentication and encryption. Use in conjunction with a KVM switch for multiple-server access.

The KVM over IP provides convenient, remote KVM access and control via LAN or Internet. It captures, digitizes, and compresses video signal and transmits it with keyboard and mouse signals to and from a remote computer. KVM over IP provides a non-intrusive solution for remote access and control. Remote access and control software run on its embedded processors only but not on mission-critical servers, so that there is no interference with server operation or impact on network performance.

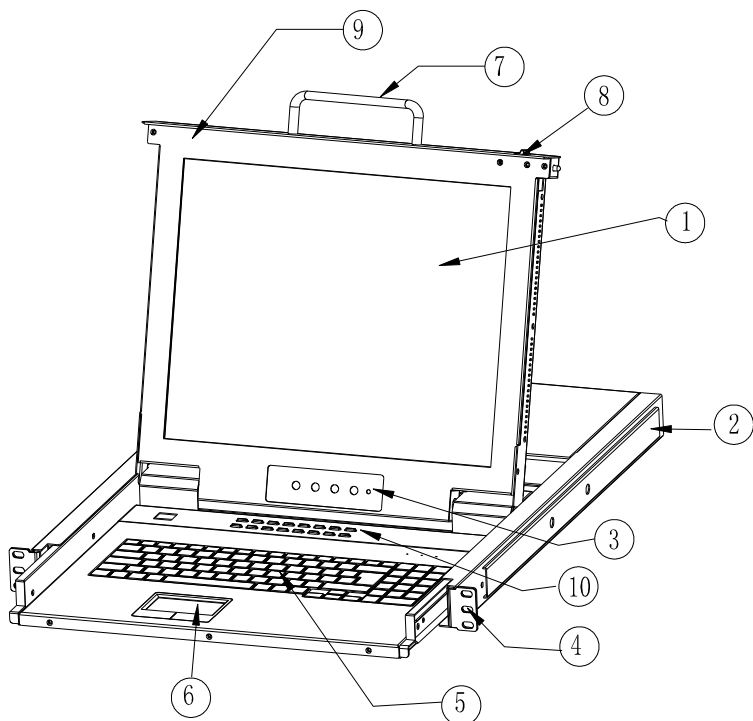
IP-KVM console integrates multiple KVM switches in a 1U height console. It can control multiple computers with a set of devices including monitor, keyboard and mouse, thus save much cost and space to separately equip keyboard, mouse and monitor for every computer. It is easy and fast to install the KVM console, you just need to connect corresponding cables to the right ports of KVM and its module without software configuration.

### 1.2 Features

- I 17" & 19" LED TFT LED monitor, high brightness, high resolution
- I Ultra slim 99 keys keyboard with small numeric keyboard
- I High resolution and high flexibility with touchpad; with two function buttons and scroll wheel, standard PS/2 port.
- I Access and control up to 8,16 computers, supports KVM seamless mixed cascade connection
- I USB console supports a wide variety of data center server and devices, supports server with USB and PS/2 keyboard and mouse
- I Two level password security--only authorized users view and control computers; up to four users and an administrator with a separate profile for each
- I USB or PS/2 keyboard emulation--computer boot even the console focus is else where
- I Convenient computer switching via front panel pushbuttons, OSD menu
- I Auto scan feature for monitoring user-selected computers
- I Broadcast mode -- operations simultaneously performed on all selected computers
- I Hot pluggable -- add or remove computers without having to power down the switch

- | Support Windows, Linux, Unix, Mac, Sun
- | Remote resolution: 1920\*1080@60Hz
- | Support two level user authority – administrator and ordinary user
- | Support channel access authorities for different users
- | Support user group
- | Support external authentication server, unified management of user rights
- | Support security logs to record events such as device power on / off, user login, logout, network abnormality, and KVM topology structure change
- | Support SYSLOG, can point the log to SYSLOG server
- | Control and access KVM & target server through browser
- | Support local control port configuration and remote browser configuration KVM
- | Support centralized management with software
- | The user can manage multi-servers in the software at the same time
- | Support automatic mouse synchronization
- | Quickly select your computer by naming the server or inputting SN number of the server
- | Support to send key combination
- | Support "Exit Macro" - the target server is automatically locked when the session is closed. "Exit Macro" can be set according to the needs of the target server
- | Support BIOS level access
- | Support full screen or display multiple windows at the same time with the software
- | Support firmware upgrade
- | Support 225 bits RSA user authentication
- | Advanced security mechanism including password protection and advanced encryption technology, support 64-bit DES, 128-bit AES data encryption
- | Support IP access control list filtering function
- | Support strong password protection mechanism
- | Support secure network link SSL
- | Support virtual media
- | Support DVD / CD drive, USB storage device, personal computer hard drive and ISO image

## Front View



- |                      |                  |
|----------------------|------------------|
| 1. LED Monitor       | 6. Touchpad      |
| 2. Rear Bracket Slot | 7. Handle        |
| 3. LED OSD Controls  | 8. Release Catch |
| 4. Front Bracket     | 9. Display Panel |
| 5. Keyboard          | 10. Switch LED   |

## Structure and Size (17")

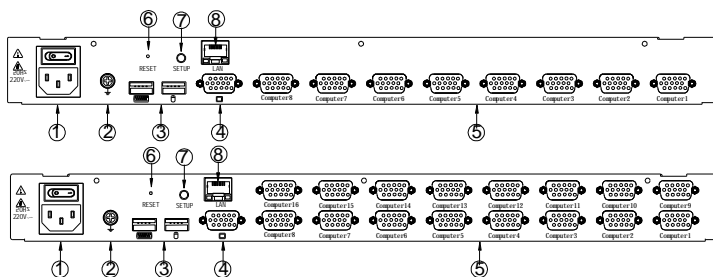
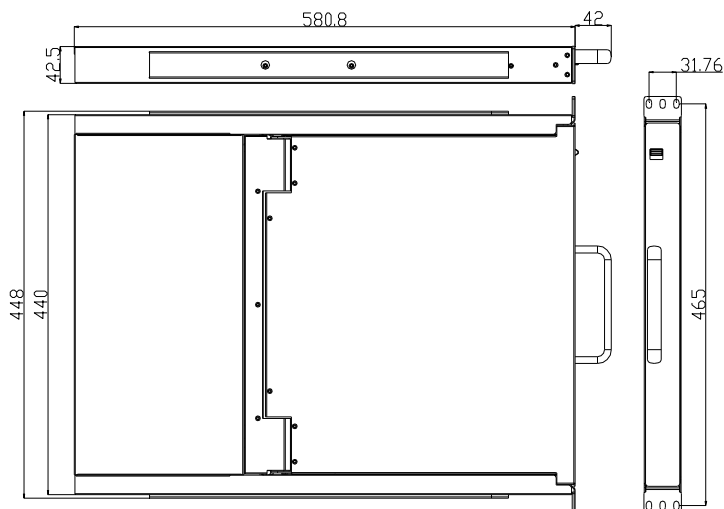
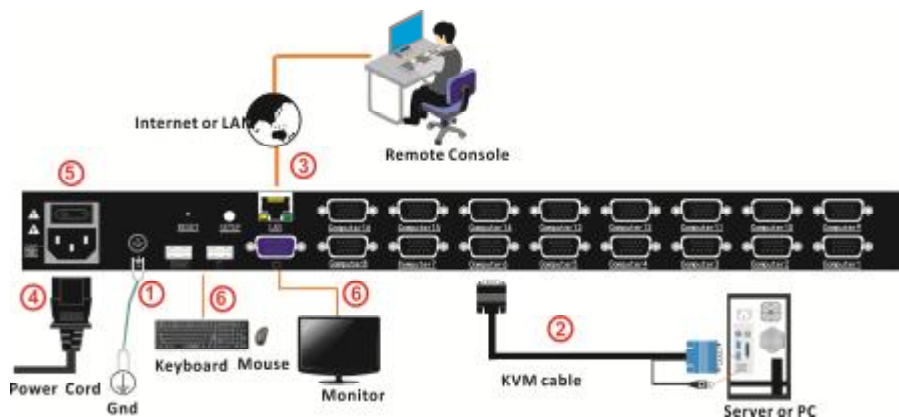


Diagram 1-2.3 back view to install KVM parts

No.	Explanation
1	Power socket with switch
2	Ground Connection Screw
3	USB port for (keyboard and mouse)
4	Video output VGA interface
5	PC connection port
6	Reset button
7	Upgrade port
8	IP port

## Connecting diagram

- 1) Make sure the KVM console has been connected to the ground (See number ① in below diagram)
- 2) Connect the computer to the KVM switch according to number ② in below diagram.
- 3) Connect the LAN port of the IP KVM to Internet (see number ③ in below diagram).
- 4) Connect the power cable into the KVM power port according to number ④ in below diagram.
- 5) Turn on power switch as shown in number ⑤ in below diagram, the KVM is running after power on.



Note: 1) please make sure all the connected devices already powered off

- 2) to avoid the damage of the devices, please make sure all the connected devices grounded

To ensure signal integrity and simplify cable layout, we strongly recommend you using high quality cables with different length as shown in above table.

## Specifications (17")

Model		XL1708i	XL1716i
Computer Connections	Direct	8	16
	Max	8	16
Port Emulation	Keyboard Mouse	PS/2, USB	
LCD Monitor	Model	SXGA TFT	
	View Area	17 "	
	Optimum Resolution	1280×1024@60Hz, DDC2B	
	Color	16.7 M	
	Brightness	250cd/m <sup>2</sup> (T y p)	
	Contrast Ratio	1000: 1 (T y p)	
	Pixel Pitch(mm)	0.264(H) × 0.264(W)	
Mouse	X/Y Resolution	>1000 points / inch, (40 points/mm)	
	Scroll Wheel	Support Scroll Wheel function	
Keyboard		99 keys (82 keys main keyboard +17 keys independent numeric keyboard)	
Port Selection		Front Panel Pushbuttons, OSD menu	
Remote	Remote Console	KVM (Active controller)	
	Management	web	
	Security	DES, AES encryption	
	Protocol	TCP, IP, ARP, ICMP, HTTP/HTTPS, SSH, DHCP, NTP, DNS and dynamic DNS	
	Resolution	1920×1080 @60Hz	
Power Input		100V- 240Vac, 50~60Hz, <1.5A	
Power Consumption		21W	27W
Operating Temperature		0—40 °C	
Store Temperature		-20—60 °C	
Humidity		0—80% RH, non- condensing	
Net Weight		13.3kg	13.7kg
Product Dimension (W × D × H)		448mm×581mm×42.5mm	
Package Dimension (W × D × H)		765mm×615mm×185mm	