

### Overview

## HPE KVM IP Console Switch

IT professionals who spend significant time in server rooms know the importance of a good quality KVM console switch with the features that you need to access your compute, storage, and networking hardware. With IT budgets constantly under pressure to do more with less there needs to be better utilization of existing IT assets, especially in dynamic virtual IT environment. By providing secure, remote access and control of your connected devices with the HPE KVM IP Console Switch, you can consolidate device management anywhere in the world while reducing operating and equipment costs

### What's New

#### New Features:

- Secure remote access to the switch and connected devices, 2 factor authentication via CAC, and VM access to install updates, perform maintenance, or power down connected devices
- Redundant remote access
- Video resolution supporting up to 1600 x 1200 on the local port
  - Widescreen video support modes include; 1680 x 1050, 1440 x 900, 1280 x 800, 1024 x 640, 800 x 500
- 1 local port and 1 tiering port
  - For digital appliances, the local ports will be represented by one tiering connection and one local KVM connection.
- Tiering up to 2 levels (base plus one lower level) through the Tiering port.

### Why HPE?

What is the Hewlett Packard Enterprise advantage for you?

While you have many choices for rack and power infrastructure products, HPE offers an extensive range of rack, power, and HPE KVM products to meet all your needs. What is the HPE advantage for you? HPE can help to simplify your IT purchasing, installation, usage, and maintenance for your organization by providing a single point of contact for all your needs. The HPE KVM products are designed and developed to be used specifically with HPE servers and storage, but can be used with non-HP IT equipment as well.

### What's in the box

Each KVM IP Switch ships with the following items:

- (1) KVM IP Console Switch
- (1) Rack-mounting hardware kit
- (1) DB9-RJ45 adapter
- (1) Power jumper cable

Find the User Guide on [hpe.com/info/rackandpower](http://hpe.com/info/rackandpower) or on our Product Support Page [here](#).

### Models

#### HPE KVM IP Console Server

HPE 1x1x8 G4 KVM IP Console Switch

Q1P54A

HPE 1x2x16 G4 KVM IP Console Switch

Q1P55A

#### HPE KVM USB Adapter

HPE KVM Console SFF USB Interface Adapter

Q5T66A

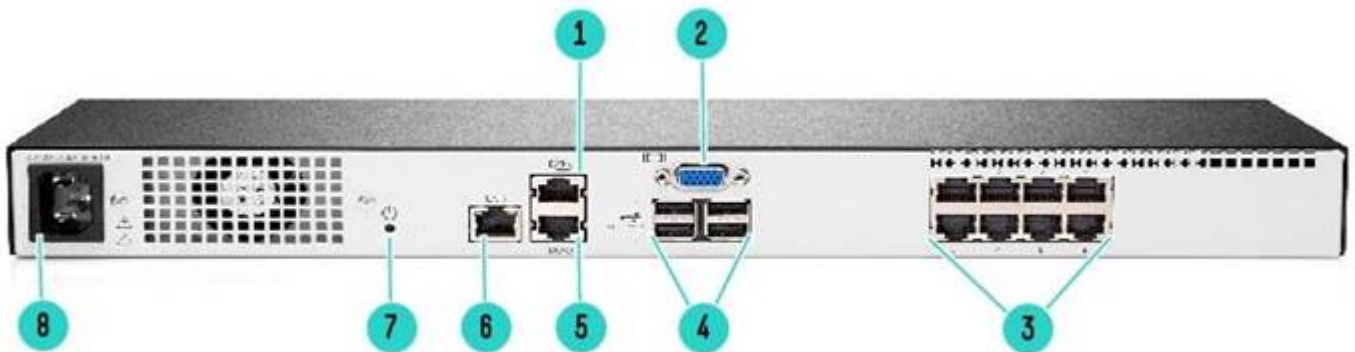
### Overview

HPE KVM Console SFF USB 8-pack Interface Adapter

Q5T67A

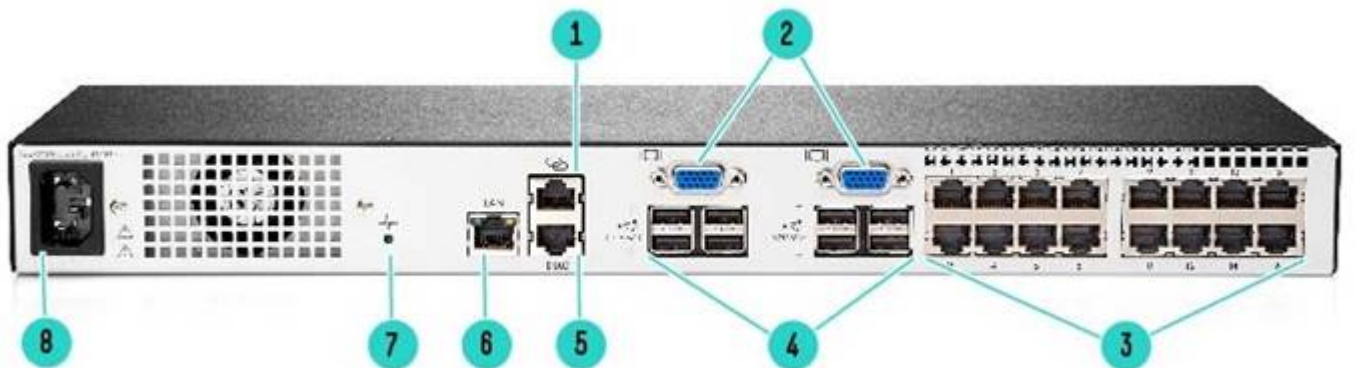


1x1x8 HPE G4 KVM IP Console Switch – Front View



1x1x8 G4 KVM IP Console Switch – Rear View

- |                              |                                      |
|------------------------------|--------------------------------------|
| 1. Tiering port              | 5. RJ-45 management port             |
| 2. Console Port A VGA        | 6. LAN 1                             |
| 3. Target device ports (1-8) | 7. Power supply status indicator LED |
| 4. Console Port A USB ports  | 8. Power Connector                   |



1x2x16 G4 KVM IP Console Switch – Rear View

- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| 1. Tiering port                   | 5. RJ-45 management port             |
| 2. Console Port A and B VGA       | 6. LAN 1                             |
| 3. Target device ports (1-16)     | 7. Power supply status indicator LED |
| 4. Console Port A and B USB ports | 8. Power Connector                   |

### Standard Features

#### Target Applications and Markets

Network Administrators, System Administrators, Engineering Managers, Chief Information Officers, and Managers of Information Systems are all among the users who benefits from using the HPE family of console switches.

- 24/7 data centers - The HPE KVM IP Console Switch enables staffed data centers to move people out of computer rooms while still maintaining server accessibility. Technicians can load the IP Viewer software on their local workstation at a desk or cubicle and access the servers in the computer room through a LAN/WAN connection.
- Staffed remote sites - The HPE KVM IP Console Switch provides users with access to local KVM functions over their LAN or WAN. Remote users can access servers and perform actions as if they are standing at a local console.
- Heterogeneous environments - The HPE KVM IP Console Switch connects to any type of server that has a standard USB KVM connection and will also connect to BladeSystems and serial devices.

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#### Features

- The HPE KVM IP Console Switch will support up to 2 users as 1 remote user and 1 local user.
- Full remote KVM functionality - Remote KVM control of servers and serially attached devices at near local performance.
- Remote and local virtual media:
  - Administrators can map local media on a workstation to a remote server in the data center or remote office to easily perform application installations or upgrades
  - A USB CD-ROM, USB DVD, USB floppy drive, or USB key can be attached directly to the HPE KVM IP Console Switch and mapped to an attached server
  - When used locally with the HPE LCD8500, USB drives can be connected to the front USB port on the Console for increased ease of use
  - Virtual media support requires the use of Virtual Media Interface Adapters
- Tiering support:
  - Two levels of cascading are available to support up to 256 servers. When all tiers are comprised of virtual media compatible console switches and interface adapters, virtual media can be mapped to a server on any tier
- iLO compatibility - Easily switch between remote KVM and iLO sessions directly from the IP Viewer software.
- Local Console OSD - Displays all system-related information on the console monitor.
- OBWI – Browser based access for management of the KVM Appliance and Interface Adapters as well as initiating a remote console session with a managed device.
- Programmable Scanning - An evaluation of system performance can be made by sequentially scanning any or all of the computers in the system. Programmable scanning allows you to determine which computers to include as well as the duration of the connection.
- Configuration NVRAM - NVRAM (non-volatile RAM) makes it easy to set configuration information using commands entered from the keyboard. The NVRAM stores the resulting configuration until a user decision is made to change the information, even if the unit loses power.
- Password Protection - For protection against unauthorized users, the appliance provides a local password option for security purposes as well as individual user authentication and access rights for remote users.
- Switch Firmware Update - The application code of the switch can be quickly and easily updated via FLASH ROM. Updates can be accomplished remotely over the LAN using the OBWI.
- Multiple rack configurations supported:: -
  - Front or Rear Horizontal Rack Mount – can be installed in any standard 19" rack U slot using the provided mounting hardware;
  - Shared 1U rack space - HPE KVM IP Console Switches may be mounted behind an HPE LCD8500 1U Rackmount KVM Console or any other KVM console that supports rear side mounting in a shared 1U space

### Standard Features

- Side Mount – use optional rails for mounting the unit to the side of rack between the RETMA rails (only supported on HPE rack enclosures)
- DVD virtual media support
- Supports existing HPE Interface Adapters, backward compatible.
- Dual-stack IPv6 with stateless auto configuration
- HPE BladeSystem c-Class KVM Interface Adapter available for BladeSystem c-Class servers.
- Video support:
  - Video compression allows 1600x1200 @ 60hz or 1680 x 1050 @ 60hz 16-bit color for remote sessions without impacting performance
  - Capable of higher resolutions at increased cable distances
- Improved security:
  - CAC support to the server
  - Keyboard, video, mouse and virtual media activity can be fully encrypted using 128-bit SSL, AES, supported encryption algorithms for remote sessions
  - Remote console sessions to the data center can be shared by other remote users. Stealth mode can also be used by administrators to monitor remote sessions without announcement.
- LDAP included:
  - Microsoft Active Directory integration using LDAP is standard
  - Local security database on switch is also available for non LDAP implementations
- IP Viewer 4.1 software:
  - Supports HPE IP Console Switch with Virtual Media, HPE IP and Server Console Switches, HPE Serial Console Servers, and legacy Cat5 based HPE IP Console Switches
  - Supports remote virtual media sessions
  - Compatible with Windows and Linux clients
- No software to install on target servers

**NOTE:** For more information please visit <https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>.

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### Tiering Configurations

Tiering is the ability to connect one or more switches under a single switch at the top as in a pyramid. Tiering allows an administrator to access larger numbers of servers from a single local or remote console. The HPE KVM IP Console Switch will support up to 2 levels of tiering under certain conditions

- HPE KVM IP Console Switch may be cascaded to KVM switches with Virtual Media or any Cat5 based HPE KVM IP Console Switch by connecting a Cat5 cable from a server port on the top switch to the dedicated tiering port on the switch below. Interface adapters are not needed to cascade HPE KVM IP Console Switch.
- Virtual media can be mapped to servers on any tier but only if the server is connected to a HPE KVM IP Console Switch using a Virtual Media Interface Adapter. Virtual media operation requires a Virtual Media Interface Adapter connected to a HPE KVM IP Console Switch with Virtual Media.
- An HPE KVM IP Console Switch cannot be tiered under a legacy Cat5 based HPE Server Switch.
- To perform a firmware upgrade for a tiered HPE KVM IP Console Switch and all attached Interface Adapters; you must connect directly to the tiered HPE KVM IP Console Switch On-Board Web Interface (OBWI).

**NOTE:** For more information on cascading HPE KVM IP Console Switch, please visit: <https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>

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### Service and Support

#### KVM Support

##### HPE ProLiant Server Support

All HPE ProLiant servers running any operating system are supported on all HPE KVM IP Console Switches.

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##### HPE Integrity Server Support

Integrity Server support is dependent on operating system and hardware configurations. For systems capable of displaying VGA graphics the USB Interface Adapters may be used. Some Integrity Servers may require an optional graphics adapter.

With some operating systems the Serial Interface G2 Adapter (PN: AF625A) may be connected to the RS-232 management port to provide serial connection through the HPE IP Console Switch.

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##### HPE Unix Server Support

HP9000 Servers can be managed using the Serial Interface G2 Adapter (PN: AF625A) connected to the RS-232 management port providing serial connection through the HPE KVM IP Console Switch.

**NOTE:** For additional information on supported options for the HPE Integrity and HP9000 Servers please consult the HP9000, Integrity and carrier-grade servers Configuration Guide.

HPE Serial Console Switches may also be used to support serially managed servers and devices.

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#### KVM Support with Virtual Media (requires Virtual Media Interface Adapter)

##### HPE ProLiant Server Support for Virtual Media

All HPE ProLiant servers capable of supporting USB storage devices and USB drive keys and running Microsoft Windows 2003 or later, RedHat 4 or later, or SLES 10 or later are supported. Requires Virtual Media Interface Adapter connected to a HPE Console Switch with Virtual Media.

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##### HPE Integrity Server Support for Virtual Media

For systems running Windows 2003 capable of displaying VGA graphics the USB Virtual Media Interface Adapter may be used. Some Integrity Servers may require an optional graphics adapter.

HPUX with USB 2.0 support is also compatible with Virtual Media.

**NOTE:** Some hardware configurations and/or operating systems may only transfer Virtual Media at USB 1.1 speeds.

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#### Warranty

Three-year limited warranty, fully supported by HPE Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HPE Pointnext operational services.

**NOTE:** Limited warranty is 3 year parts only.

HPE Pointnext operational services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical. A full range of HPE Pointnext operational hardware and software services are available including:

- Installation and start up
  - Education courses
  - Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
  - Comprehensive range of software technical support for Microsoft, Linux, ProLiant Essentials and VMWare-based IT solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
  - System Management, Performance Services and Mission Critical Support Solution
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### Service and Support

HPE Pointnext operational services include Hewlett Packard Enterprise branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3KVA. 22" and smaller external monitors will be covered at the same service level and coverage period as the server. For servers or storage systems installed within a rack, service also covers all HPE qualified rack options installed within the same rack.

**NOTE:** For more information on HPE Pointnext operational services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at:

<https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>

**NOTE:** For more complete information on HPE Services offerings, customers and resellers, please visit us at:

<https://www.hpe.com/us/en/support.html>

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### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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### Related Options



### HPE KVM Console SFF USB Interface Adapter (Q5T66A)

#### Virtual Media Interface Adapters

HPE KVM Console SFF USB Interface Adapter	Q5T66A
HPE KVM Console SFF USB 8-pack Interface Adapter	Q5T67A
HPE KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HPE KVM Console USB/Display Port Interface Adapter	AF654A

#### Non VM Interface Adapter

HPE KVM Console USB Interface Adapter	AF628A
<b>NOTE:</b> AF628A does not provide CAC and Virtual Media support.	
HPE BladeSystem c-Class KVM Interface Adapter	AF605A
<b>NOTE:</b> Supports HPE BladeSystems c-Class products only.	

#### Interface Adapters for Serial Connectivity

HPE KVM CAT5 1-pack Serial Interface Adapter	373035-B21
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#### CAT5e Cables

HPE 6ft Qty 8 KVM CAT5 Cable	263474-B22
HPE 12ft Qty 8 KVM CAT5 Cable	263474-B23

#### HPE LCD8500 Console Kit

HPE LCD8500 1U US Rackmount Console Kit	AF630A
HPE LCD8500 1U UK Rackmount Console Kit	AF631A
HPE LCD8500 1U DE Rackmount Console Kit	AF632A
HPE LCD8500 1U FR Rackmount Console Kit	AF633A
HPE LCD8500 1U JP Rackmount Console Kit	AF642A
HPE LCD8500 1U RU Rackmount Console Kit	AF643A
HPE LCD8500 1U INTL Rackmount Console Kit	AF644A

#### HPE Foundation Care

HPE Install Rack and Rack Options Service	U2871E
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### Technical Specifications

#### HPE KVM IP Console Switch

<b>Dimensions</b>	Height	1.72 in (4.36 cm)	
	Width	17 in (43.8 cm)	
	Depth	6.69 in (16.99 cm)	
	Weight	4.4 lb (2.0 kg)	
<b>Power Requirements</b>	Rated Voltage	100 to 240V AC auto-sensing (auto-switching)	
	Rated Frequency	50 to 60 Hz	
	Rated Input Current	0.5 to 0.25A	
	Input Power	100W (max)	
	Inrush current	30A max. @ 120VAC cold start	
		120VAC min.	379mA, 22.4W, 76.5btu
		120VAC max.	408mA, 24W, 81.9btu
		240VAC min.	257mA, 22.5W, 76.8btu
<b>Temperature Range</b>	240VAC max.	273mA, 24W, 81.9btu	
	Heat	340 BTU/hr (max)	
	Maximum Ambient Operating Temperature	32° to 140° F (0° to 50° C)	
	Ambient Storage and Shipping Temperature	-4° to 158° F (-20° to 70° C)	
<b>Temperature</b>	Operating	32° to 140° F (0° to 50° C)	
	Transit	-4° to 158° F (-20° to 70° C)	
	Storage	-4° to 158° F (-20° to 70° C)	
<b>Relative Humidity (non-condensing)</b>	Operating	20% to 80%	
	Non-operating	5% to 95%	
<b>Video Modes Supported</b>	VGA input on KVM and VGA and Display port on the server		
<b>Network Speed</b>	10/100 Mb/s		
<b>Connectors</b>	Ports	(8) or (16) CAT-5 ports	
	Local Video Output	(1) or (2) HD-15	
	Local Keyboard Input	(1) or (2) USB	
	Local Mouse Input	(1) or (2) USB	
	Setup and Configuration Port	(1) RJ-45	
	Tiering	(1) RJ-45	
	Input Power	EN 60320 C14 receptacle for use with any detachable C13 equipped power cord	



### Technical Specifications

#### CAT 5 Cable lengths and Video Resolution Restrictions

<b>Standard 4x3</b>				
Total Cable Length	1600x1200 1680x1050  @60hz	1280x1024  1280x800  @60Hz	1024x768  @60Hz	800x600  @60Hz
10'	X	X	X	X
50'		X	X	X
100'				X
<b>Wide Screen 16x9 / 16x10</b>				
Total Cable Length	1680x1050  @60Hz	1440x900  @60Hz	1280x800  @60Hz	800x500  @60Hz
10'	X	X	X	X
50'	X	X	X	X
100'				X

#### Environment-friendly Products and Approach- End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in any geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**.

These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

### Summary of Changes

Date	Version History	Action	Description of Change
01-Jul-2019	Version 4	Changed	Technical specifications were updated.
01-Oct-2018	Version 3	Changed	Overview and Related Options were updated.
02-Jul-2018	Version 2	Changed	Overview Section was updated
02-Apr-2018	Version 1	New	New QuickSpecs

     
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