

Overview

HPE KVM Analog Console Switches

Looking for a simple and intuitive solution that allows you to access and manage servers across your entire network?

HPE KVM Analog Console Switches allow you to view and manage up to 256 rackmount servers across your data center through a single user interface. HPE KVM Analog Console Switches utilize a local On-Screen Display (OSD) interface, accessed through a rack console such as the HPE LCD8500, which provides intuitive menus for accessing each attached server or serial managed device. HPE's G3 KVM Analog Console Switches support an optional USB Remote Access Key that allows you to upgrade to KVM-over-IP functionality, providing remote access and management via the On-Board Web Interface (OBWI). New G3 models also support HPE Power Discovery Services and Location Discovery Services when connected to the appropriate power distribution unit and KVM rack console.

HPE KVM Analog Console Switches are available in 8 and 16-Port versions. Standard rack mounting of the KVM Analog Console Switch will share 1U (1.75") of front panel rack space with the rack console. However, each model can also be mounted in a "zero U" profile by mounting in the side rails of the rack.

Why do you need a KVM Analog Console Switch for your rack?

- Local access to each server from the data center floor via a KVM Analog Console.
- Remote, out-of-band access to all connected servers in the data center.
- Local and remote access to a mixed IT environment where more than one brand of server is in use.

Why HPE?

- HPE Services operational services purchased for servers and storage extend to our rack and power infrastructure products such as racks, power distribution units, uninterruptible power systems, and KVM console switches.

What is the Hewlett Packard Enterprise advantage for you? You don't have to spend additional budget to cover extended warranties and services for your rack and power infrastructure as you would with non-Hewlett Packard Enterprise products.

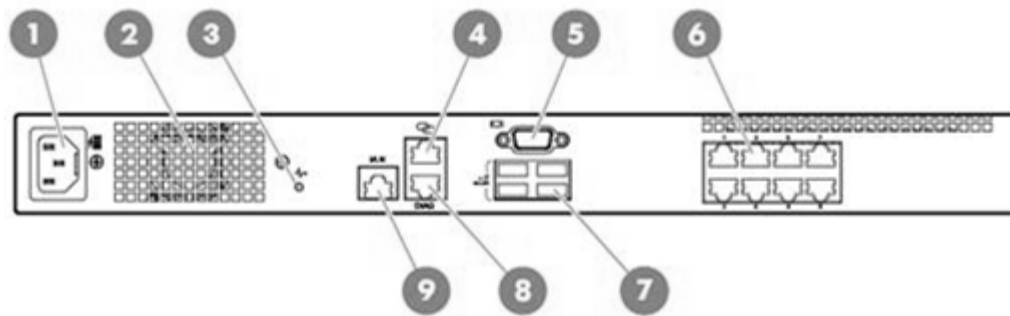
- HPE rack and power infrastructure products are designed and developed to be used specifically with Hewlett Packard Enterprise servers and storage.

What is the Hewlett Packard Enterprise advantage for you? You can use HPE rack and power products with non-HPE IT equipment; however, when used with Hewlett Packard Enterprise servers, you are able to take advantage of various server and IP-based tools used for maintaining and managing all the equipment in the rack.

- While you have many choices for rack and power infrastructure products, Hewlett Packard Enterprise offers an extensive range of rack, power, and KVM products to meet all your needs.

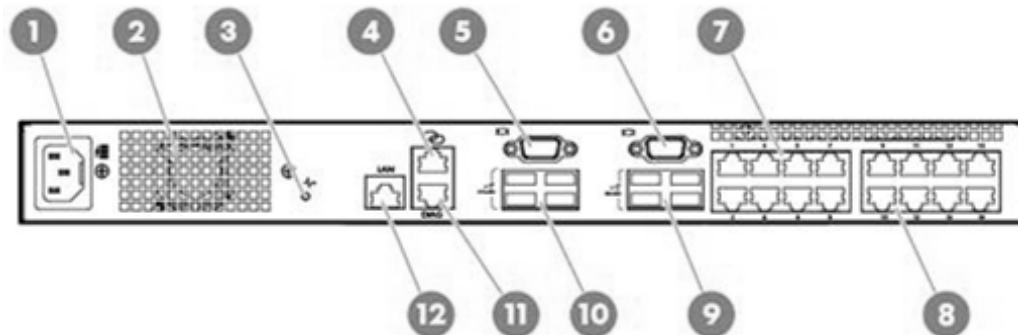
What is the Hewlett Packard Enterprise advantage for you? Hewlett Packard Enterprise can help to simplify IT purchasing, installation, usage, and maintenance for your organization by providing a single point of contact for all your needs.

Overview



HPE 0x1x8 G3 KVM Analog Console Switch

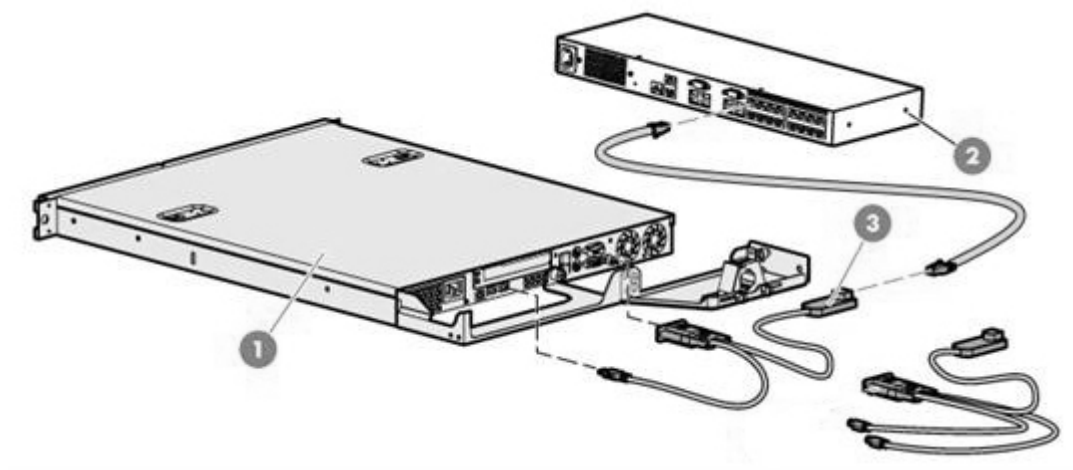
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|---------------------------------|--------------------------------|
| 1. Power cord connector | 6. Server connection ports 1-8 |
| 2. Fan | 7. Console port USB ports |
| 3. System health LED | 8. DIAG port |
| 4. RJ-45 tiering port | 9. LAN port |
| 5. Console port video connector | |



HPE 0x2x16 G3 KVM Analog Console Switch

- | | |
|-----------------------------------|----------------------------------|
| 1. Power cord connector | 7. Server connection ports 1-8 |
| 2. Fan | 8.. Server connection ports 9-16 |
| 3. System health LED | 9. Console port B USB ports |
| 4. RJ-45 tiering port | 10.. Console port A USB ports |
| 5. Console port A video connector | 11. DIAG port |
| 6. Console port B video connector | 12. LAN port |

Overview

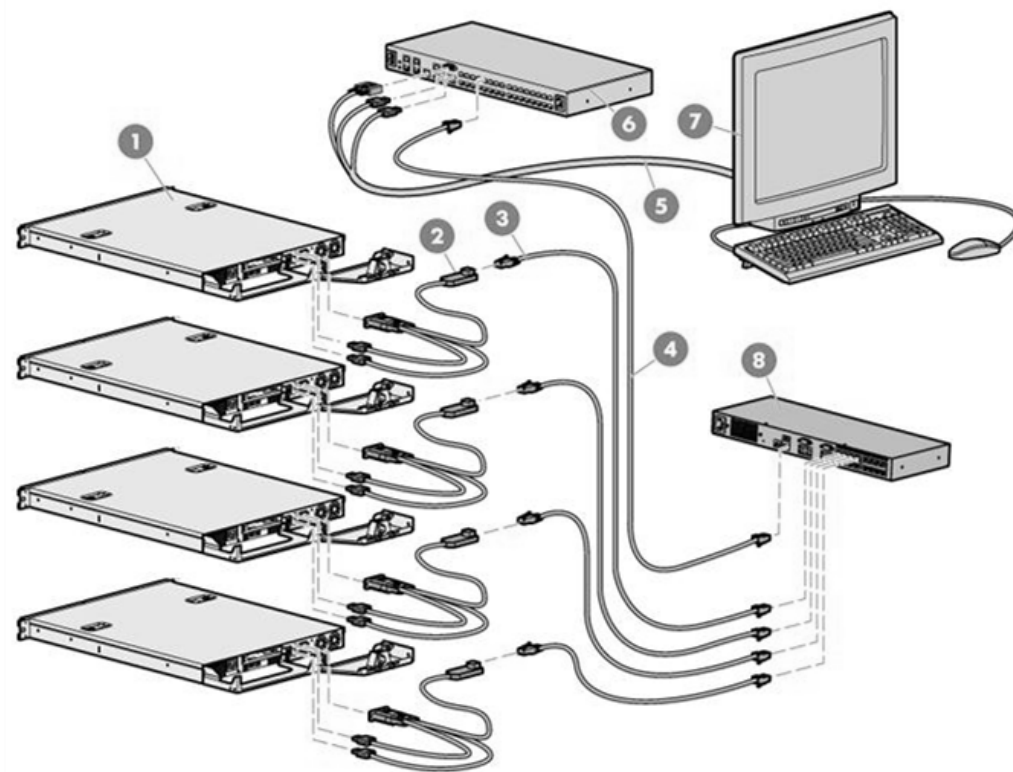


Connecting the Console Switch to the Interface Adapter (IA) on a Server

1. Server
2. Console Switch
3. USB Interface Adapter (IA)



Overview



Using HPE KVM Analog Console Switch in a Tiered Configuration

- | | |
|--------------------------------|---|
| 1. 1. Server | 5. KVM cable |
| 2. 2. Interface Adapter (IA) | 6. Main HPE IP Console Switch |
| 3. 3. UTP CAT5 cable or higher | 7. Local port |
| 4. 4. UTP CAT5 cable or higher | 8. Tiered HPE KVM Server Console Switch |



Models

Models		
HPE G3 KVM Analog Console Switches	HPE 0x1x8 G3 KVM Console Switch	AF651A
	HPE 0x2x16 G3 KVM Console Switch	AF652A
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What's in the box	Each KVM Console Switch ships with the following items: <ul style="list-style-type: none">• (1) KVM Analog Console Switch• (1) Rack-mounting hardware kit• (1) DB9-RJ45 adaptor• (1) Power Cord (US)• (1) Power jumper cable (Worldwide)• (1) Documentation kit	
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Standard Features

Features

- **On-Screen Display (OSD)** – displays system-related information on the console monitor, such as selected server name, status, power-up test data and configuration menus.
 - **Remote Access upgrades** – use the USB Remote Access Key (AF650A) to activate remote access capabilities, turning your analog switch into a digital switch.
 - **On-Board Web Interface (OBWI)** – built in web server providing remote management of the KVM.
 - **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.
 - **HPE Power Discovery Services (PDS)** – integrated support for HPE PDS when connected to an HPE Intelligent PDU (iPDU).
 - **HPE Location Discovery Services (LDS)** – integrated support for HPE Location Discovery services (LDS) when connected to the HPE LCD8500 Rackmount KVM Console.
 - **Password Protection** – For protection against unauthorized users, the switch box provides a password option for security purposes.
 - **Multiple Space Saving OU Installation Methods** –
 - Side Mount - Rails are provided for mounting the unit to the side of rack cabinets with side mounting capability.
 - Rear Rack Mount - HPE Console Switches may be mounted behind an HPE rack mounted keyboard and monitor with slide rails provided with the switch.
 - **Support for variety of server connections with Interface Adapters**
 - PS/2
 - USB
 - VT 100 serial console support
 - BladeSystems support via front diagnostics connector
-

Multi-user console switches

The multi-user KVM console switch has two user ports for multiple user consoles, and multiple system ports as well (many-to-many). The multi-user console offer expanded flexibility, such as the following scenarios:

- Simultaneous control of servers in both the data center and in other remote locations.
 - If there are multiple network administrators, a multiple console switch allows each of them to access all of the servers in their data center to diagnose problems, all from separate locations.
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Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

<https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

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HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

<https://www.hpe.com/services/operational>

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>



Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

<https://www.hpe.com/services/training>

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE 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.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>



Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

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

For more information

www.hpe.com/services



Related Options

Related Options

Remote Access Key	HPE USB Remote Access Key for G3 KVM Console Switches	AF650A
CAT5e Cables	HPE 6ft Qty 8 KVM CAT5 Cable	263474-B22
	HPE 12ft Qty 8 KVM CAT5 Cable	263474-B23
	HPE KVM Console USB Interface Adapter	AF628A
	HPE KVM Console USB/Display Port Interface Adapter	AF654A
	HPE KVM Console USB 8-pack Interface Adapter	AF655A
HPE Tech Care	HPE Install Rack and Rack Options Service	U2871E



Technical Specifications

Server Console Port Analog Switches	Dimensions	Height	1.72 in (4.36 cm)
		Width	17 in (43.8 cm)
		Depth	6 ½ in (16.51 cm)
		Weight	4.6 lb (2.04 kg)
	Power Requirements	Rated Voltage	100 to 240V AC
		Rated Frequency	50 to 60 Hz
		Rated Input Current	0.5A
		Output Power	20W (max)
		Inrush Current	60A max @ 120 VAC cold start
	Temperature	Heat	79 BTU/hr (max)
		Operating	32° to 122° F (0° to 50° C)
		Transit	-22° to 140° F (-30° to 60° C)
		Storage	-4° to 140° F (-20° to 60° C)
	Relative Humidity (non-condensing)	Operating	20% to 80%
		Non-operating	5% to 95%
	Video Modes Supported		VGA, SVGA, XGA

CAT 5 Cable lengths and Video Resolution Restrictions

	1280 x 1024	1024 x 768	800 x 600
50 ft (15m) cable length	Y	Y	Y
75 ft (22m) cable length	-	Y	Y
100 ft (30m) cable length	-	-	Y

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 many 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
04-Dec-2023	Version 32	Changed	Service and Support Section was updated
15-Nov-2021	Version 31	Changed	Service and Support Section was updated
01-Oct-2018	Version 30	Changed	Models were updated.
02-Jul-2018	Version 29	Changed	Models Section was Updated
05-Mar-2018	Version 28	Changed	Overview section was revised.
23-Oct-2017	Version 27	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
31-Mar-2016	Version 26	Added	Added new interface adapters.
		Changed	Overview, Models, and Related Options were revised.
		Removed	HPE G2 KVM Analog Console Switches section was removed from the QuickSpecs.
09-Feb-2015	Version 25	Added	Added new G3 models
		Changed	Title was changed from HPE KVM Server Console Switch to HPE KVM Analog Console Switches. Overview, Models, Standard Features, HPE Server Support, Service and Support, Related Options, and Technical Specifications sections were revised.
18-Feb-2014	Version 24	Changed	Interface Adapters was revised.
20-Nov-2013	Version 23	Changed	The title has changed.
20-Sep-2013	Version 22	Removed	Removed a Note from the Overview section.
20-Jun-2011	Version 21	Changed	Changes were made throughout the QuickSpecs.
16-Feb-2011	Version 20	Changed	Service and Support Offerings was changed to HPE Services operational in Service and Support, HPE Services operational, and Warranty Information, What's New was removed from the Overview and Serial Interface Adapter, 1-pack with power supply was removed from Interface Adapters.
25-Nov-2009	Version 19	Changed	HPE Server console switch 0x2x8 was added to Multi-user console switches and Single-user console switches was removed.
16-Nov-2009	Version 18	Added	HPE TAA Server console switch 0x2x16 was added.
27-Apr-2009	Version 17	Changed	Changes were made to the What's New, Models, and Which Model is best? sections.
10-Nov-2008	Version 16	Changed	Changed the Multi-user Console Switches Part Number from 366045-B21 to 336045-B21.
11-Jan-2008	Version 15	Removed	Removed the Expansion Module from the Related Options section.
28-Dec-2007	Version 14	Removed	Removed AF100A.
05-Sep-2007	Version 13	Added	Added the Environment-friendly Products and Approach object to the Technical Specifications section.
13-Feb-2007	Version 12	Changed	Changed the Single-user Console Switch Part Number.
12-Feb-2007	Version 11	Changed	Changes made within the What's New, Related Options, Features and the HPE Server Support sections.
20-Mar-2006	Version 10	Changed	Minor changes made in all sections except TECHNICAL SPECIFICATIONS.
13-Jan-2006	Version 9	Changed	Minor change made in OVERVIEW - Features (Multiple Space Saving OU Installation Methods) and HPE SERVER SUPPORT - HPE Unix Server Support.
26-Sep-2005	Version 8	Changed	Minor formatting changes made throughout the QuickSpecs.
08-Apr-2005	Version 7	Added	Added Care Pack Installation P/N's. Added Output Power, Heat and CAT 5 Cable lengths and Video Resolution Restrictions to Technical Specifications.
13-Dec-2004	Version 6	Changed	Every section of this QuickSpecs was revised except for Technical Specifications. The images were moved above the Service and Support section.
06-Aug-2004	Version 5	Changed	This QuickSpecs has been completely revised, including format and content.



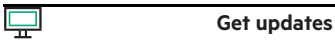
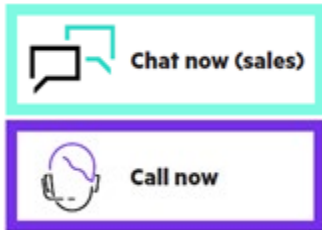
Summary of Changes

Date	Version History	Action	Description of Change
23-Mar-2004	Version 4	Changed	Models Corrected the part number for the USB Interface Adapter – 1 pack from 366047-B21 to 336047-B21.
18-Mar-2004	Version 3	Changed	Technical Specifications Corrected the callouts for the Components Image.
20-Nov-2003	Version 2	Changed	Overview-Features Multiple Space Saving 0U Installation Methods HPE Console Switches may be mounted behind a HPE Integrated Keyboard and Drawer (257054-XXX), the TFT5110R rack monitor or the TFT5600 rack mounted keyboard and monitor with slide rails are provided with the switch.
17-Nov-2003	Version 1	New	New QuickSpecs



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c04123433 - 11834 - Worldwide - V32 - 04-December-2023