Overview

HPE Standard Analog KVM

The ATEN G2 Standard Series Analog KVM Switch for HPE offers a cost-effective solution for consolidated server access, management, and control in desktop and rack-mount environments. Target device selection is easy with 3 options: port selection through push-buttons on the switch, hotkey combinations from the keyboard, or a menu-driven on-screen display. This switch easily connects servers with KVM consoles such as the HPE LCD8500 1U Rackmount Console kit, or with other external monitor, keyboard, and mouse configurations.

The ATEN G2 switch combines multi-platform OS support with a selection of models featuring 4, 8, or 16 ports. This switch features two-level password security for authorized users to view and control connected devices, while allowing creation of up to 4 user profiles and an administrator profile. All ATEN G2 KVM Switch models are backed by HPE Tech Care extensions, which match the server's warranty and service levels at no additional cost.

HPE Standard Analog KVM

Why buy an ATEN switch from HPE?
- While you have many choices for rack and power infrastructure products, HPE offers an extensive range of rack, PDU, UPS and KVM products that can be integrated into your rack-based IT solutions though HPE Factory Integration Services
- HPE rack and power infrastructure products are tested and certified for specific use with HPE servers and storage, and backed by an HPE warranty
- HPE Pointnext 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 at no additional cost

Overview

Models

ATEN G2 Analog KVM Switches for HPE Servers

ATEN CS1304 G2 0x1x4 Analog KVM Switch for HPE Servers   Q1F44A
ATEN CS1308 G2 0x1x8 Analog KVM Switch for HPE Servers   Q1F45A
ATEN CS1316 G2 0x1x16 Analog KVM Switch for HPE Servers   Q1F46A

What's in the box

Each ATEN G2 Analog KVM Switch for HPE ships with the following items:

- (1) KVM Analog Console Switch
- (1) Console cable
- (1) Firmware upgrade cable
- (1) foot pad sets (4 pads)
- (4) M6 screws
- (4) M6 screw nuts
- (5) Zip ties
- (1) Power adapter
- (1) C13 to C14 power cable
- (1) Rack-mounting hardware kit
- (1) User instruction

Overview

HPE Standard Analog KVM – Front View

1. Port LEDs (4, 8, or 16 LEDs depending on model)
2. Reset Button
3. Firmware upgrade port (RJ-11 female)

4. Power LED
5. Firmware upgrade recovery switch

Notes: This is a photo of the 16 port switch, CS1316. CS1304, CS1308, CS1316 share the same layout. The only differences are CS1304 has 4 KVM ports / LEDs; while CS1308 has 8 KVM ports / LEDs and CS1316 has 16 KVM ports / LEDs
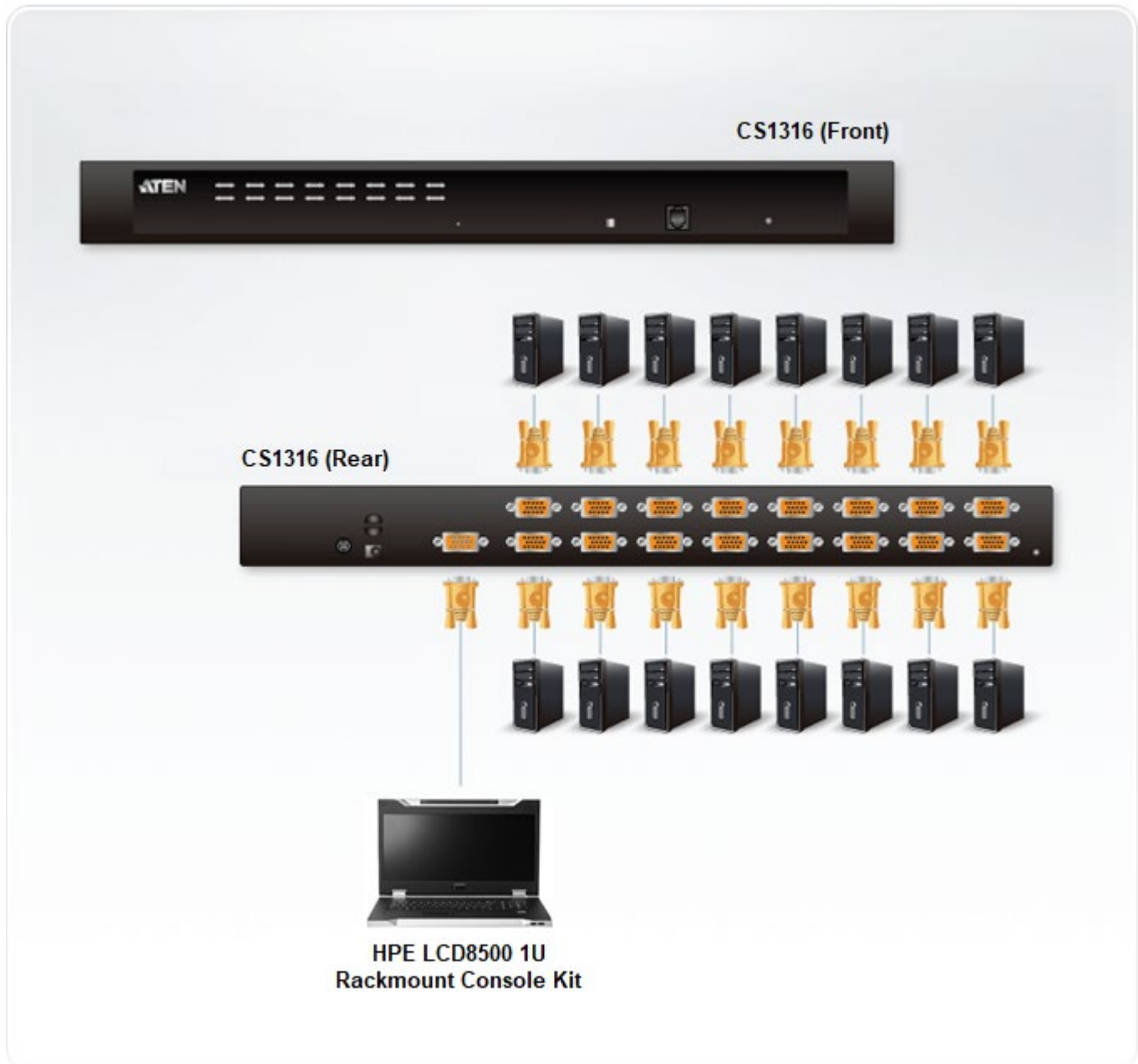
HPE Standard Analog KVM – Rear View

1. Cable tie slot
2. Server ports (SPHD-15 female): 4, 8, or 16 ports depending on model
3. KVM Console port (SPHD-18 male)
4. Power jack
5. Grounding terminal

Notes: This is a photo of the 16 port switch, CS1316. CS1304, CS1308, CS1316 share the same layout. The only differences are CS1304 has 4 KVM ports / LEDs; while CS1308 has 8 KVM ports / LEDs and CS1316 has 16 KVM ports / LEDs

Overview

Connecting servers to the KVM Switch Diagram

Notes: Servers or other target computers with VGA or DisplayPort outputs for video, and USB outputs for mouse/keyboard can be connected to one of the SPHD-15 Server Ports (4, 8, or 16 depending on switch model) with an SPHD to VGA/USB or SPHD to DisplayPort/USB cable.

Notes: KVM consoles such as HPE LCD8500 1U Rackmount Console kit or a traditional monitor/keyboard/mouse can be connected to the switch's KVM Console port (SPHD-18) with the included console cable.

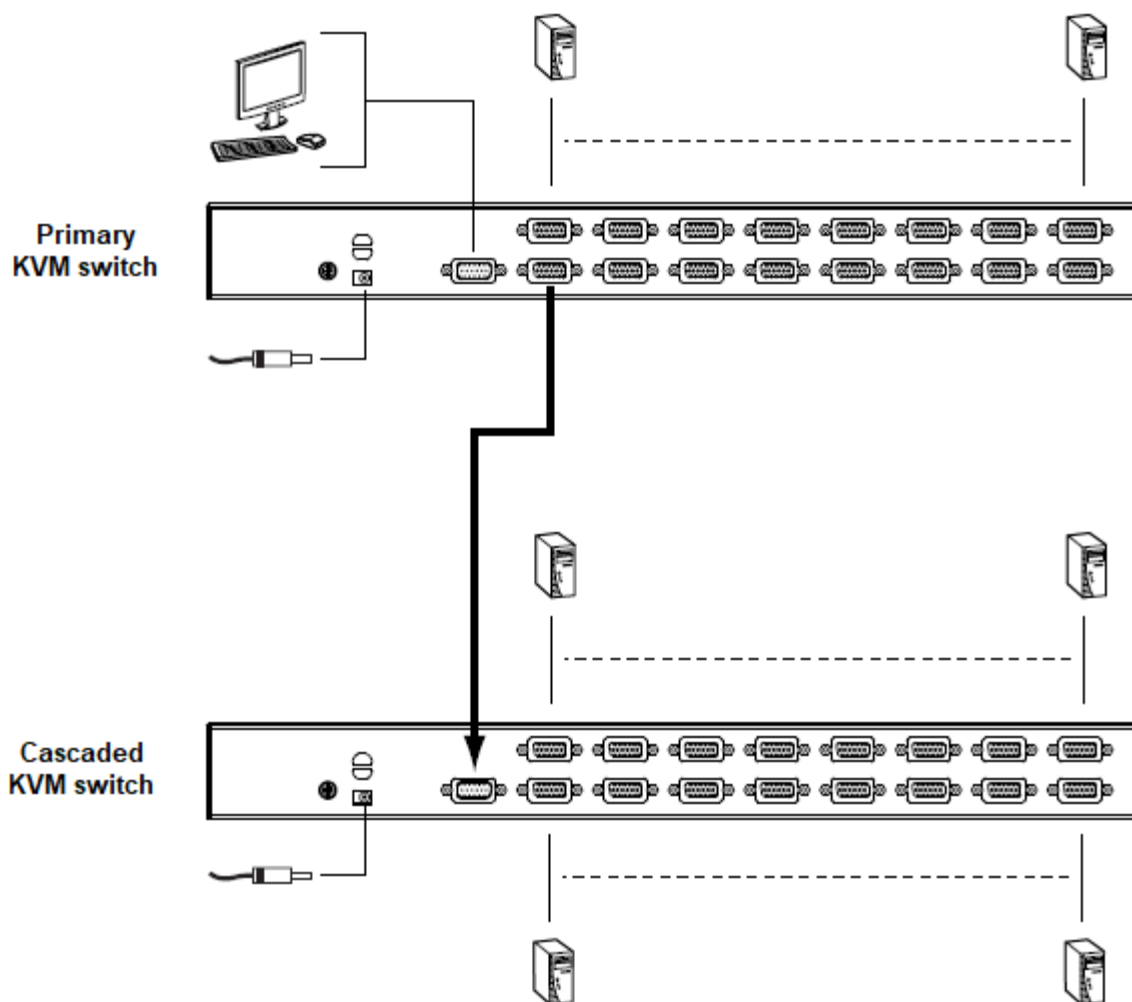**Notes:** See Related Options section for cable SKU numbers

Overview

Using HPE KVM Analog Switch in a Tiered Configuration
To control even more computers, additional switches can be cascaded from the primary HPE Analog KVM Switch. For the 16 port version, up to 16 additional switches can be cascaded, supporting control of up to 256 computers from a single primary console in a completed installation.

The connection from the primary KVM switch Console Port to the cascaded KVM switch can be accomplished with the **Console Cable** (included with every switch) plus an **ATEN 2L-5202U VGA/USB to SPHD-15 1.8m Interface Cable** (Q5T68A).

The below diagram shows a CS1316 cascade diagram with a single KVM switch on layer 2, a configuration which supports 31 PCs (15 PCs connected to primary KVM switch, and an additional 16 PCs connected to the second "cascaded" KVM switch, for a total of 31 connected PCs). Please refer to the user manual for more details.

KVM Analog Switch Tiered Configuration Diagram

Overview

XXXXXX**-X21** is SKU designation formed by a common six digit part number and a **-X21** suffix that identifies a SKU that is available across multiple server family lines. Refer to the table below to find the SKU suffix that applies to the specific server product line this option can be ordered with.

-B21	**-H21**	**-K21**
COMPUTE Server Line	**SPECIALIZED COMPUTE Server Line**	**STORAGE Line**

-B21
COMPUTE Server Line
HPE Cloudline CL2100/CL2200/CL2800/CL3100/CL4100/CL5200/CL5800 Servers
HPE Composable Cloud for ProLiant DL
HPE ProLiant BL460c/BL660c Servers
HPE ProLiant DL20/DL160/DL180 Servers
HPE ProLiant DL325/DL360/DL380/DL385/DL560/DL580 Servers
HPE ProLiant DX360/DX380 Servers
HPE ProLiant MicroServer
HPE ProLiant for Microsoft Azure Stack
HPE ProLiant ML30/ML110/ML350 Servers
HPE Synergy 480/660 Systems
HPE ProLiant DX170r/DX190r, DX2000 Servers
HPE ProLiant DX560 Gen10 server
HPE ProLiant DX4200 Gen10 server

-H21
SPECIALIZED COMPUTE Server Line
HPE Apollo 35/40/70 Systems
HPE Apollo 2000/6000 Servers
HPE XL170r/XL190r/XL270d (Apollo 6500) Gen10 Server for BlueData Software
HPE Converged System 300/500/700/750
HPE Edgeline Systems and Servers
HPE Integrity BL860c i6/BL870c i6/BL890c i6 Server Blades
HPE Integrity MC990 X Server
HPE Integrity rx2800 i6 Server
HPE Integrity Superdome
HPE SGI 8600 System
HPE Solutions for SAP HANA (TDI)

-K21
STORAGE Line
HPE Apollo 4200 Gen9/Gen10 Servers
HPE Apollo 4200 Gen10 LFF Server for BlueData Software
HPE Apollo 4510 Gen10 System
HPE D2220sb/D2500sb Storage Blade
HPE D3000/D6020/D8000 Disk Enclosures
HPE Scalable Object Storage with Scality RING
HPE SimpliVity 2600
HPE SimpliVity 325/380 Gen10
HPE Storage File Controllers
HPE StoreEasy 1460/1560/1650/1660/1860

Disclaimer: This may not be a complete listing of applicable servers

Standard Features

HPE Standard Analog KVM switches are suitable for installation in most IT environments
- Attachable foot pads are included for deployment of the switch in desktop environments
- Mounting hardware is included for easy installation into HPE G2 Advanced and Enterprise Racks
- Qualified for integration into HPE racks using HPE Factory Integration Services

Easy Access and Control: HPE Standard Analog KVM Switches support three different methods to select your target device
- Front side push-button selection with LED indicators allow for direct selection of the target device
- Keyboard hot-key support allows target device selection when the switch is inaccessible inside the rack
- A menu-driven multi-lingual OSD (On Screen Display) feature allows for target device selection through a graphical interface on the connected monitor or KVM console

HPE Standard Analog KVM switches allow users to access up to 256 servers through a single KVM installation
- Select from 4, 8, and 16 port models to support up to 16, 64, and 256 devices respectively through 2 level tiering/cascade technology
- Switch connectivity to individual servers is supported through interface adapter cable options that support servers using USB with both VGA and Display Port video connections

Strong Security: HPE Standard Analog KVM Switches provide security features to prevent unauthorized users
- Features two level password security so only authorized users view and control connected devices
- Supports up to 4 separate user profiles and an administrator profile

Features and Benefits
- **4, 8, or 16 ports:** Capable of supporting a range of different IT environments
- **Support for cascading up to 2 levels** – allowing for expansion and control of up to 256 computers (with 16 port models)
- **Multiplatform support** - Windows, Linux, Mac, and others to support a range of OS environments
- **Video DynaSync™ -** Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- **Auto USB interface detection** - Simplifies setup by automatically detecting connected input devices
- **USB keyboard and mouse emulation -** computers boot even when the console focus is elsewhere
- **Superior resolution**- up to 2048 x 1536; DDC2B for superior video quality
- **Front panel pushbuttons, hotkeys and multilingual on-screen display (OSD) menu** for easy target device selection
- **Two level password security** - only authorized users view and control computers; up to four users and an administrator with a separate profile for each
- **Auto Scan feature** monitors server ports and detects device status automatically
- **Hot pluggable server ports** - add or remove computers without having to power down the switch
- **Audible system alerts-** turned on and off via hotkey and OSD
- **Firmware upgradeable** – to support periodic maintenance and upgrades
- **No software installation required** – simplified setup
- **Designed for desktop or rack mount (19" system rack, 1U)** – for more versatile use

Standard Features

Operating System Support		
Operating System:		**Version:**
Windows		2000 and higher
Windows Server		2008 R2, 2012 R2, 2019
Linux	**Red Hat**	7.1 and higher
	RHEL	7.6
	SLES	12 SP3
	SuSE	8.2 and higher
	Mandriva (Mandrake)	9.0 and higher
	ESXi	6.7
UNIX	**AIX**	4.3 and higher
	FreeBSD	4.2 and higher
	Sun Solaris	Solaris 11.3
Novell	**Netware**	5.0 and higher
Mac		OS 9 and higher
Ubuntu		16.04
CentOS		7
OpenSUSE		13.2

Service and Support

HPE Pointnext - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake 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 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

Managed services to run your IT operations

HPE GreenLake Management Services provides 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.

Recommended Services

HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care 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 Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care 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

HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care 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/completecare

Service and Support

Warranty
When you need it, use outstanding HPE support services for your whole data center environment. With HPE Pointnext operational services, have the security of knowing that your KVM Switch will be covered at the same service level and coverage period as your HPE server. ATEN G2 Analog KVM Switches are backed by a 3-year warranty, which covers depot repair of the switch, or direct replacement of the switch.

For more information
To learn more on services for HPE Options, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit: **https://www.hpe.com/us/en/support.html** or
https://www.hpe.com/us/en/services/operational.html

Related Options

Related Options:
Server to switch interface cable

ATEN 2L-5202U VGA/USB to SPHD-15 1.8m 1-pack Interface Cable	Q5T68A

Notes: Primary interface cable to connect server port on switch to the VGA and USB outputs on a target server/device

ATEN 2L-5202U4 VGA/USB to SPHD-15 1.8m 4-pack Interface Cable	Q5T69A

Notes: 4 pack of the primary interface cable to connect server port on switch to the VGA and USB outputs on a target server/device

ATEN CV190 DisplayPort/USB to SPHD-15 1.8m 1-pack Interface Cable	Q5T70A

Notes: primary interface cable to connect server port on switch to the DisplayPort and USB outputs on a target server/device

LCD KVM Console

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 LCD8500 1U US TAA Rackmount Console Kit	AF645A

IEC locking jumper cords

HPE C13 - C14 WW 250V 10Amp 0.7m Black Locking Power Cord	Q0P67A
HPE C13 - C14 WW 250V 10Amp 1.4m Black Locking Power Cord	Q0P68A
HPE C13 - C14 WW 250V 10Amp 2m Black Locking Power Cord	Q0P69A
HPE C13 - C14 WW 250V 10Amp 3m Black Locking Power Cord	Q0P70A

Notes: These are single pack cables

HPE C13 - C14 WW 250V 10Amp 0.7m Black 6-pack Locking Power Cord	Q0Q02A
HPE C13 - C14 WW 250V 10Amp 1.4m Black 6-pack Locking Power Cord	Q0Q03A
HPE C13 - C14 WW 250V 10Amp 2m Black 6-pack Locking Power Cord	Q0Q04A
HPE C13 - C14 WW 250V 10Amp 3m Black 6-pack Locking Power Cord	Q0Q05A

Notes: These are 6 – packs of cables

HPE Tech Care

HPE Install Rack and Rack Options Service	U2871E

Technical Specifications

Function			CS1304	CS1308	CS1316
Computer Connections			4	8	16
Port selection			Multi-lingual On Screen Display (OSD), Hot-key, Push-button		
Connectors	**Console Port**	**Keyboard**	1 x SPHD-18 Male (Yellow)		
		Video			
		Mouse			
	KVM Ports	**Keyboard**	4 x SPHD-15 Female (Yellow)	8 x SPHD-15 Female (Yellow)	16 x SPHD-15 Female (Yellow)
		Video			
		Mouse			
	F/W Upgrade		1 x RJ-11 Female (Black)		
	Power		1 x DC Jack		
Push-buttons	**Port selection**		4	8	16
Firmware upgrade recovery switch			Left for Normal operation, right for Recover operation		
LEDs	**On Line**		4 (Orange)	8 (Orange)	16 (Orange)
	Selected		4 (Green)	8 (Green)	16 (Green)
	Power		1 (Dark Green)		
Emulation	**Keyboard/Mouse**		USB		
Video			Maximum resolution of 2048 x 1536; DDC2B		
Scan Interval			1 to 255 Seconds		
Power Consumption			DC 5.3 V; 5 W	DC 5.3 V; 5 W	DC 5.3 V; 6.6 W
Environment	**Operating Temperature**		0–50°C		
	Storage Temperature		-20–60°C		
	Humidity		0–80% RH, Non-condensing		
Physical Properties	**Housing**		Metal		
	Weight		(4.16 lbs) 1.89 kg	(4.16 lbs) 1.89 kg	(4.63 lbs) 2.10 kg
	Dimensions (L x W x H)		43.72 x 16.13 x 4.40 cm	43.72 x 16.13 x 4.40 cm	43.72 x 16.13 x 4.40 cm
			1.73 x 17.21 x 6.35 in	1.73 x 17.21 x 6.35 in	1.73 x 17.21 x 6.35 in

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
15-Nov-2021	Version 2	Changed	Service and Support Section was updated
02-Dec-2019	Version 1	New	New QuickSpecs

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