

Segue, para ciência e transparência a todas as empresas interessadas, solicitação de diligências requeridas pela Área Técnica deste E. Tribunal com relação à análise da proposta, e respectivas respostas da empresa arrematante do Item 2 - SK Tecnologia:

À ARREMATANTE DO ITEM 2 - SK TECNOLOGIA:

A) “O documento proposta_final.pdf, em seu item 2. Proposta Comercial, apresenta uma tabela com os Part Numbers (PN) dos componentes para o equipamento ofertado para o item 2 do certame. Entre eles há o 865408-B21, que corresponde ao item HPE 500W FS Plat Ht Plg LH Pwr Sply Kit, que é a fonte de alimentação do equipamento. No entanto, na descrição do equipamento, abaixo desta tabela, está escrito: 2 fontes redundantes 800W. Para que a equipe técnica possa seguir em sua análise sobre o atendimento aos requisitos, peço que analise a possibilidade de se diligenciar junto à arrematante para que esclareça qual será o modelo das fontes que pretende-se fornecer nos equipamentos”

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Favor considerar 2 fontes de 800W conforme descrito.”

EM PROSSEGUIMENTO ÀS ANÁLISES DA PROPOSTA ENVIADA, A ÁREA TÉCNICA DESTA E. TRIBUNAL SOLICITOU NOVOS ESCLARECIMENTOS, CONFORME SEGUE:

B) A equipe técnica solicita a realização de diligência junto à arrematante do item 2 (SK Tecnologia Ltda.):

1) "R.HS12 - O equipamento deve ter, no mínimo, 2 (duas) placas HBA (Host Bus Adapter) dual-port, protocolo Fibre Channel (FC), em controladoras distintas, totalizando 4 (quatro) interfaces para garantir redundância (2+2), com suporte às funções de autonegociação de velocidade, failover e balanceamento de carga. Todas as interfaces FC deverão estar equipadas com adaptadores ópticos - transceivers SFP+ SWL (Short Wavelength) com conexão padrão LC que trabalhem com velocidade de, no mínimo, 16 Gbps e que sejam compatíveis com o produto ofertado e com switches fibre channel da marca Cisco, modelo MDS9396S, trabalhando com transceivers de 8 e 16 Gbps". A documentação enviada pela arrematante, informa que serão fornecidos "2 placas FC com 2 portas 16Gb", mas não informa marca/modelo do adaptador óptico; o Part Number da placa HPE SN1100Q foi fornecido, mas persiste dúvida sobre uma características dos adaptadores ópticos (transceivers), especificamente: "... transceivers SFP+ SWL (Short Wavelength) com conexão padrão LC".

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim as hbas possuem os transceivers conforme solicitado (comprovação PDF anexo HPE 16Gb Fibre Channel Host Bus Adapter part# P9D94A “16 Gbps HBA with standard bracket, two 16 Gbps SFP+, low-profile bracket, documentation, Connector Short wave laser with LC type conector”

2) "R.HS24 - Todas as licenças ofertadas deverão ser perpétuas, permitindo a continuidade do funcionamento do equipamento, ainda que não esteja coberto por contrato de atualização e suporte. Caso a nova versão ou release seja disponibilizada para download, todo suporte visando instalação e configuração deverá ser prestado pela CONTRATADA". Não está claro para a equipe técnica como é atendido o requisito. Solicito esclarecimentos.

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim, a licença iLO é Perpetua BD505A - HPE iLO Adv 1-svr Lic 3yr Support (comprovação HPE Integrated Lights-Out (iLo)) “When a user purchases an iLO license they get the right to use the licensed features perpetually, the time duration in the license refers to the duration for which they are entitled to support and updates. An iLO license is tied to the life of the server that it has been applied on, it cannot be transferred from that server to any other server.” Pag.22”

3) "R.HS26 - A controladora de gerenciamento deverá ser do mesmo fabricante do equipamento mantendo total compatibilidade com o mesmo e integração total com software de gerenciamento solicitado. Deverá ter compatibilidade com os protocolos de criptografia SSL para acesso à console via Web e protocolo de criptografia SSH para acesso à console CLI. Deverá permitir controle remoto tipo console (teclado, mouse e monitor) mesmo quando o sistema operacional estiver inoperante. Deverá informar o status do equipamento indicando componentes com falha e notificando via e-mail e trap SNMP. Deverá possuir tecnologia de mídia virtual possibilitando que unidades de CD/DVD e portas USB localizadas em estação de gerenciamento sejam emuladas no servidor gerenciado permitindo a inicialização (boot) através dessa mídia. Capacidade de monitorar o consumo de energia do servidor. Deverá permitir desligar e reiniciar o servidor através da console de gerenciamento, mesmo em condições de indisponibilidade do sistema operacional. Deverá permitir a instalação, update e configuração remota de sistemas operacionais, bem como a atualização de firmwares". Não ficou claro para a equipe técnica onde podem ser encontradas as informações específicas sobre o atendimento das funcionalidades listadas neste item.

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim, está configurada a BD505A - HPE iLO Adv 1-svr Lic e no mesmo documento do item 2 temos toda as comprovações (KVM, SSL,SSH e Virtual Media)”

4) "R.HS31 - Deverá ser fornecido e instalado kit de trilhos e braço organizador de cabos do mesmo fabricante do equipamento ofertado, para fixação dos equipamentos em rack de 19” padrão EIA-310D. Os trilhos devem permitir o deslizamento do equipamento a fim de facilitar a manutenção". A documentação enviada pela arrematante, informa um Part Number do acessório (HPE DL300 G10+ 1 U SFF Easy Inst Rail Kit), mas a equipe técnica ficou em dúvida sobre as características do acessório que foi ofertado para suprir o requisito, especificamente sobre a compatibilidade com rack de 19” padrão EIA-310D.

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim estão configurados : P26485-b21 HPE DL300 G10+ 1 U SFF Easy Inst Rail Kit e P26489-B21 HPE DL300 Gen 10+ 1U CMA for Rail kit compatível com o modelo EIA310, apenas para comprovação segue o rack da HPE que é no padrão EIA-310 e suporta os servidores (HPE G2 Enterprise Series Rack)”

5) "R.HS39 - Conforme Portaria nº 170 de 10/04/2012 do Instituto Nacional de Metrologia, Qualidade e Tecnologia (INMETRO), o equipamento deve cumprir os requisitos técnicos das normas IEC 60950-1 (Information Technology Equipment – Safety) e CISPR22 (Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement)". Não ficou claro para a equipe técnica onde podem ser encontradas as informações específicas sobre o atendimento da CISPR22 (ou da atualizada CISPR32).

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim, no documento anexo (IEC_ROHS_CISPR22) onde consta EN55032 que é compatível com o CISPR32”

6) "R.GM01 - Garantia integral dos produtos contratados deverá ser de 60 meses contados a partir da assinatura do Termo de Recebimento Definitivo. Deverá ser prestada pelo fabricante, com possibilidade de abertura de chamados técnicos na contratada e no fabricante. É comum no mercado a oferta de garantia de 60 meses para servidor de rede corporativo, que é o objeto deste processo". Na documentação apresentada pela arrematante há o documento proposta_final.pdf. A equipe técnica ficou em dúvida sobre como será feita a "...abertura de chamados técnicos na contratada e no fabricante" (grifo nosso).

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim, na proposta consta HU4A3A5 – HPE 5 Y TC Critical SVC, serviços de 5 anos com tempo de solução de 6 horas prestado diretamente pela HPE”

7) "R.GM07 - Os chamados técnicos deverão ser abertos automaticamente pela ferramenta de monitoramento fornecida com a solução contratada. Também podem ser feitos por telefone (0800) ou via e-mail pelo gestor do contrato ou pelos fiscais ou, ainda, por pessoas por eles designadas, o prazo máximo para solução definitiva do problema será de acordo com a severidade do incidente e a contagem do prazo se iniciará a partir do registro do chamado automático feito pela ferramenta, ou pelo contato telefônico com o fornecimento do número do protocolo da CONTRATADA ou a partir da confirmação do recebimento do e-mail, que deve ocorrer em, no máximo, 1 hora após o envio pela CONTRATANTE, salvo problemas comprovados de atraso no recebimento devido a problemas de força maior. A CONTRATADA deverá responder imediatamente ao e-mail, fornecendo o número do protocolo. O atendimento deverá ser efetuado em língua portuguesa". A equipe técnica, na análise dos documentos, ficou em dúvida sobre qual ferramenta de monitoramento será fornecida para abertura dos chamados de forma automática. Portanto, solicita-se esclarecimentos.

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Sim, no documento (Welcome Kit Brasil da HPE) temos todas as formas de abertura de chamado técnico, por fone, automático utilizando o HPE Infosight”

EM PROSSEGUIMENTO ÀS ANÁLISES DA PROPOSTA ENVIADA, A ÁREA TÉCNICA DESTA E. TRIBUNAL SOLICITOU NOVOS ESCLARECIMENTOS, CONFORME SEGUE:

C) “Ainda restou uma dúvida sobre o seguinte requisito:

*“R.GM01 - Garantia integral dos produtos contratados deverá ser de 60 meses contados a partir da assinatura do Termo de Recebimento Definitivo. Deverá ser prestada pelo fabricante, **com possibilidade de abertura de chamados técnicos na contratada** e no fabricante. É comum no mercado a oferta de garantia de 60 meses para servidor de rede corporativo, que é o objeto deste processo”.*

Pergunta-se: como poderá ser feita a “[...] abertura de chamados técnicos na contratada [...]”? Observe-se que a contratada poderá ser a arrematante, não será o fabricante. Solicita-se esclarecimentos.”

RESPOSTA DA ARREMATANTE SK TECNOLOGIA: “Todo o suporte de 60 meses como conforme exigido no edital, será prestado diretamente pelo fabricante HPE, com isso a abertura de chamados será feito diretamente no fabricante, podendo ser automático pelo servidor utilizando o Infosight, no 08000 ou através do portal de suporte da HPE, conforme o documento anexo da HPE. Caso seja necessário abrir chamado via contratada no caso a SK TECNOLOGIA, o fone é 11-38828282 ou ainda pelo email suporte@sktec.com.br.”

Overview

HPE 16Gb Fibre Channel Host Bus Adapter

The HPE 16Gb Host Bus Adapters are designed to support ProLiant Servers with PCI-Express I/O slots to connect to Hewlett Packard Enterprise Storage Arrays using the 16/8/4 Gb Fibre Channel protocol. The HPE 16Gb Host Bus Adapters bring datacenter infrastructure components to a higher level of performance and efficiency with the ability to deliver twice the I/O performance of 8Gb HBAs at lower latency. A 16Gb FC HBA purchased today is backward compatible with 8 Gb and 4 Gb storage networks and will protect future investments. When using storage intensive applications, such as backup/restore, database transactions, virtualization, and rich media, the increased performance of the 16 Gb infrastructure enables more rapid storage and retrieval of critical information. Designed for environments with greater virtual machine density and bandwidth requirements, the 16Gb HBAs enable more applications and VMs to run on a single host server and Fibre Channel port, resulting in reduced cabling and a higher return on IT investment. The four port adapters are specially designed for PCIe slot constrained servers which run workloads that demand extremely high storage networking bandwidth.

What's New

- FC-NVMe support in Windows, VMware and Linux OSes

Models

Description	SKU
Single Port	
SN1200E Single Port	
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
SN1100Q Single Port	
HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
Dual Port	
SN1200E Dual Port	
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A
SN1100Q Dual Port	
HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A

Standard Features

Key Features and Benefits

Performance

Delivers, up to three times the IOPS*, twice the data throughput (MB/s) and cuts latency by half compared to 8Gb FC HBAs

Best Fibre Channel IOPS, latency and throughput performance enables increased application and database transactions per second, enables faster large block transfers and increases the number of VMs that can be supported per server.

Notes: * The HPE SN1200E delivers up to 1.6 million IOPS on a single port or in aggregate across both ports

Support for greater Server Virtualization

Ideal for high density server virtualization environments

Enables more applications and VMs to run on a single server and Fibre Channel port, resulting in reduced cabling and a higher return on IT investment.

Provides HPE ProLiant Connectivity to HPE Storage And Network

Robust interoperability testing

- Provides an HPE-branded HBA solution which has undergone extensive HPE interoperability testing for connecting HPE ProLiant servers into HPE Storage and networking environments.
 - Optimal for connecting to The HPE 16Gb FC edge/core network switches.
-

Smart SAN support

Smart SAN is a protocol agnostic application embedded in SAN components that enables SCSI-attached Alletra/Primera/3PAR to orchestrate configuration, settings and policies in a SAN. HPE Smart SAN's Target Driven Zoning enables you to configure zones accurately in minutes and not in hours and its automatic discovery mechanism creates a powerful platform which would enable real-time diagnostics with self-healing in the near future.

Express Lane prioritization

The SN1200E enables I/O prioritization of physical or virtual server to a LUN or a group of LUNs ensuring priority delivery in high-traffic or congested storage networks. Managed with the Emulex OneCommand management software downloadable from

HPE Software Downloads

NVMe over Fibre Channel

The SN1200E & SN1100Q 16Gb Fibre Channel Host Bus Adapters are NVMe-enabled to support emerging NVM Express (NVMe) over Fibre Channel storage networks.

- FC-NVMe support in Windows Server 2016 / 2019 with Native Multipathing (Asymmetric namespace access (ANA)) and Boot from SAN (BFS) for SN1100Q adapter
 - FC-NVMe support for ESX 7.0 U1, RHEL 8.3, RHEL 7.9, SLES 15 SP2 for SN1100Q adapter
 - Supports FC-NVMe-2 Sequence Level Error Recovery (SLER)
-

Active Health System

All HPE 16Gb Fibre Channel adapters support HPE ProLiant Active Health System integration. This helps administrators accurately troubleshoot and resolves problem within the server faster.

Standard Features

Secure Firmware download

The SN1200E delivers enhanced security via the new secure firmware update feature which protects and ensures the authenticity of device firmware.

Forward error correction (FEC)

FEC is enabled and improved at 16Gb as required by the FC Specification, automatically correcting transmission errors and improving network performance and resiliency.

Universal SAN Congestion Mitigation (UCSM)

UCSM support (Fabric Performance Impact Notifications, FPIN) for SN1100Q adapter in the following tools & OS distros:

- QCC CLI, ESX CLI, Windows / Linux / ESX drivers
 - UCSM I/O Throttling mitigation support.
-

Link cable beaconing (LCB)

LED beaconing for ports on both ends of a physical link simplifies cable identification and management.

D-Port Diagnostics

Quickly run automated diagnostic tests in a single step, across multiple adapters, servers, and fabric components to assess connectivity. Optics and cable problems are identified and resolved.

FDMI

Quickly check connectivity to SAN devices and query the switch management server for in-depth details on connected devices.

Read Diagnostic Parameters (RDP)

Identify the source of network and media errors like cyclic redundancy check (CRC) and loss of sync (LOS) by remotely accessing diagnostic information from anywhere in the fabric.

Fabric-assigned Port Worldwide Name (FA_WWN)

Using SN1100Q & SN1200E administrators can preconfigure WWN settings at the switch port allowing Fibre Channel adapter to acquire port WWN address from the Gen 5 16Gb or Gen 6 32GFCfabric. This allows SAN administrator to configure SAN zoning without need for servers to be present.

Buffer-to-Buffer Credit Recovery (BB_CR)

The SN1100Q enhances performance and resiliency by automatically recovering buffer credits, which can be lost on long distance and lossy connections with the potential to stall I/O or degrade performance.

Virtual Machine ID (VM-ID)

The SN1100Q enables System/SAN administrator to monitor FC traffic from VM to LUN

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.

Recommended Services

Support for this adapter is at the level of server it is a part of. Please check the QuickSpecs of the server.

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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Defective Media Retention

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

HPE Support Center - AI Powered and Digitally Enabled Support

Achieve faster time to resolution with access to product-specific resources and expertise through a brand-new digital and data driven customer experience. Sign-in to the all-new customer engagement platform, featuring reimagined digital case management- simplified for easy case creation and management with inline knowledge recommendations. A personalized task panel shows cases awaiting action, expiring support and more. New virtual agent - powerful AI-driven troubleshooting with seamless transition to live agent with conversation history included and the ability to verify contract, warranty, and case status. And Enhanced, intelligent search - Machine Learning tailors content easily and instantly as it's used.

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

Learn More

www.hpe.com/services

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

To learn more on HPE Storage 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>
HPE Support Services are sold by HPE 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 HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>
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Service and Support

Warranty

3-0-0 Three-year parts exchange warranty. Additional warranty protection can be purchased.

HPE Global Services provides a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers and toll-free 24x7 hardware technical phone support for the duration of the warranty. In addition, available service offerings include a full range of HPE Pointnext operational packaged hardware and software services.

Notes: Certain restrictions and exclusions apply. Consult the HPE Customer Support Center for details.

Technical Specifications

Family Information

	P9D93A	P9D94A	Q0L13A	Q0L14A
Number of channels	Single	Dual	Single	Dual
Port Speed	16 Gbps	16 Gbps	16Gbps	16Gbps
Slot type supported	PCI Express 3.0 to Fibre Channel			
OS Supported				
Notes: Always refer to the HPE Single Point of Connectivity Knowledge for HPE Storage Products at: http://www.hpe.com/storage/spock for specific product support information and specific OS versions supported.				
Windows Server 2019/2016/ 2012 / 2012 R2 & HyperV	x64	x64	x64	x64
RHEL 8.x, 7.x, 6.x	x64	x64	x64	x64
VMware ESX/ESXi 7.0,6.7,6.5,6.0,5.5	x64	x64	x64	x64
SLES 15.x,12.x, 11.x	x64	x64	x64	x64
Servers Supported	Select HPE ProLiant & Apollo Gen10 and above platforms Notes: Refer to server Quick Specs for details regarding supported options.			
Array Platforms Supported	Refer to http://www.hpe.com/storage/spock for specific product support information			
What's Included in the Box?	16 Gbps HBA with standard bracket, one 16 Gbps SFP+, low-profile bracket, documentation	16 Gbps HBA with standard bracket, two 16 Gbps SFP+, low-profile bracket, documentation	16 Gbps HBA with standard bracket, one 16 Gbps SFP+, low-profile bracket, documentation	16 Gbps HBA with standard bracket, two 16 Gbps SFP+, low-profile bracket, documentation
Environmental - Operating Temperature	32° F to 113° F (0° C to 45° C)		32° F to 131° F (0° C to 55° C)	
Environmental - Storage Temperature	-40° F to 158° F (-40° C to 70° C)		-4° F to 158° F (-20° C to 70° C)	
Environmental - Relative Humidity - Operating	15% to 80% RH at 40° C (non-condensing)		10% to 90% RH at 40° C (non-condensing)	
Product Dimensions (W x D x H)	6.59 x 0.49 x 4.4 in (12.34x167.51x111.15mm)		6.63 x 0.63 in. (119 x 168 x 16mm)	
Media	Multi-mode Optic (SFP+)		Multi-mode Optic (SFP+)	
Connector	Short wave laser with LC type connector		Short wave laser with LC type connector	
PCIe Connector	PCIe 3.0 x8			
Auto-negotiation	16/8/4 Gbps			
Brackets	Shipped with both ½ height and full-height brackets			

Summary of Changes

Date	Version History	Action	Description of Change
10-Jan-2022	Version 21	Changed	Corrected NVMe information
07-Sep-2021	Version 20	Changed	Added UCSM and removed some of the deprecated features
04-May-2021	Version 19	Changed	Removed OBS products and added FC-NVMe OS information
03-Aug-2020	Version 18	Changed	QuickSpecs layout was updated and Branding Refresh was applied.
15-Jun-2020	Version 17	Changed	Overview and Technical Specification sections were updated
06-Apr-2020	Version 16	Changed	QuickSpecs layout was updated
07-Aug-2017	Version 15	Changed	Feature changes and Gen10 support
08-May-2017	Version 14	Changed	Changed Environmental data for SN1200E cards
17-Feb-2017	Version 13	Changed	Feature and table of specifications are cleaned up with latest information
28-Nov-2016	Version 12	Changed	Added Information on SN1200E 16Gb Single port and Dual Port adapters
07-Jun-2016	Version 11	Changed	Changes made throughout the QuickSpecs
31-Mar-2016	version 10	Changed	Changes made throughout the QuickSpecs
17-Oct-2014	Version 9	Changed	Removed the SN1000 from the name, Update the Technical Specifications section table.
09-May-2014	Version 8	Changed	Operate and Support and Basic Care were revised.
28-Mar-2014	Version 7	Changed	PCIe Connector was revised in Technical Specifications.
14-Feb-2014	Version 6	Removed	SN1000E Single Port and SN1000E Dual Port were removed.
20-Sep-2013	Version 5	Changed	Changes made to the following Sections; Overview, Models and Technical Specifications
19-Aug-2013	Version 4	Changed	QuickSpecs layout was updated
04-Dec-2012	Version 3	Changed	Changes made throughout the QuickSpecs. Note that the title has changed.
18-Jun-2012	Version 2	Changed	QuickSpecs layout was updated
13-Feb-2012	Version 1	New	New QuickSpecs

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Overview

HPE Integrated Lights-Out (iLO)

Integrated Lights-Out (iLO) is an embedded technology that ships in HPE Servers. It is the core foundation for the intelligence of the HPE Servers. This technology is combination of the iLO ASIC that is part of the server-board and the firmware that powers the ASIC. Different generations of ProLiant Servers carry different versions of the iLO ASIC.

SI No	ProLiant Generation	iLO ASIC version
1	Gen10 and Gen10 Plus	iLO 5
2	Gen9 and Gen8	iLO 4
3	Gen7	iLO 3

iLO is key to make the server operational and boot. It helps simplify server set up, engage health monitoring as well as power and thermal control. These capabilities are included with the Server at no extra cost (iLO Standard). No installation needed and minimal setup is required. Industry leading features that enhance server administrator productivity are available through optional licenses. With iLO 5 Firmware version v1.40, the iLO Advanced license will include all licensed features. This new, simplified approach allows customers to have either standard, included features, or upgrade to licensed features that are all available with iLO Advanced.

What's New

Currently, when a customer orders a server, the server is shipped with the default iLO password being a randomized string. The randomized string which is the initial password for the iLO is printed on the iLO Default Network Settings Tag. The default password is used for the initial login and is restored when iLO is Reset to Defaults. Using the randomized password is a security best practice. However, some customers that onboard large numbers of servers view this as an impediment to automation.

Customers who prefer to get their servers with a well-defined or common default iLO password, may now order SKU P08040-B21 along with their servers. Ordering this SKU with the server will instruct the factory NOT to randomize the password and set a HPE defined common password. All customers using this SKU will receive their systems with the same password. Server orders that do not include the SKU P08040-B21 will continue to receive their servers with randomized passwords. This common password will be printed on the iLO Default Network Settings Tag and will be the default password if iLO is Reset to Defaults.

HPE highly recommends changing of this password immediately after the initial onboarding process.

Customers who want to choose their own custom default password should use the HPE Factory Express Integration Services.

Standard Features

iLO 5 Firmware version v2.xx

- Support for IEEE 802.1x protocol
- Support for IEEE 802.1AR based identity (iLO IDevID)
- Support for signed component certificates from HPE factory for customer assurance and self-verification
- Redfish and IPMI enhancements
- Thermal and power management enhancements
- Bug fixes

iLO 5 Firmware version v1.40

- Features previously requiring an iLO Advanced Premium Security Edition now enabled with an iLO Advanced license
- Security Dashboard - Displays the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features
- One-button Secure Erase via Intelligent Provisioning, designed to decommission/repurpose servers
- Support for Gemalto SafeNet and SafeNet AT key managers
- Virtual NIC functionality, allowing secure authenticated iLO access from the Operating System
- LDAP/Directory settings configurable via Redfish
- Firmware Downgrade Policy - Specifies how iLO handles requests to downgrade firmware that you can update through iLO
- NVMe wear level display
- Ability to edit Maintenance Windows in Firmware & OS Software section
- Password complexity rules feature
- Enable/disable for overlay video showing Server Health Summary
- Server configuration lock enabled via the BIOS
- Workload Performance Advisor - Provides server tuning recommendations to improve server performance

iLO 5 Firmware version v1.30

- Support for scheduled firmware updates
- Support for Intelligent System Tuning features via iLO UI
- Enhancements to AlertMail features including secure email and the ability to use an external SMTP mail server, eliminating the need for users to have their own SMTP server
- HTML5 IRC enhancements
 - Support for local files to be mounted via Virtual Media in HTML5 Remote Console
 - Improved performance of HTML5 Remote Console
 - Fixed keyboard bugs in HTML5 Remote Console
- Forensics capture of defective FW images to NAND, and ability to download bad image for external analysis
- Automatic Save/Restore of iLO configuration to/from NAND at iLO startup
- Enhancements to prevent NAND wear out

• iLO 5 Firmware version v1.20

- HTML5 Remote Console
 - No dependency on JAVA or .NET
 - Native browser support for Chrome, Firefox, Edge, Internet Explorer, Safari

Standard Features

- Support for Windows, Linux, Mac clients
- Keyboard, Video, Mouse redirection
- Virtual Media Support (via URLs)
- GUI and REST API to configure power settings for Apollo servers
- GUI and REST API to configure drive zoning for Apollo servers
- Support for IPv6 on share network port
- Support for Online Certificate Status Protocol (OCSP) for CAC/SmartCard/certificate based authentication
- Support for RSA-PSS certificate signatures
- RSA cipher support in CNSA mode
- Added NVMe drive properties to Redfish

iLO 4 Firmware version v2.70

- HTML5 Remote Console
- Support for Gemalto SafeNet and SafeNet AT key managers
- "All Host Links Down" SNMP trap
- Infosight skinny AHS download
- Integrated Remote Console power button confirmations.
- OpenSSL 1.0.1 -> 1.0.2o
- Added logging of **Non-volatile flash memory wear data to Active Health System.**

iLO 4 Firmware version v2.62

- Bug Fixes

Refer to the **HPE iLO User Guide (iLO 5 iLO 4)** and **release notes (iLO 5 iLO 4)** for a complete list of fixes/enhancements and also additional information on new features/enhancements/fixes.

Related FAQs for HPE iLO Licensing

Q: Can the iLO Advanced license key of the new electronic SKU's be installed via normal HPE factory CTO process?

A: No, this has been discontinued, in case you need factory integration of iLO licenses please order the physical SKU with the #0D1 option.

Q: Can one still get iLO Advanced electronic licenses (E-LTU SKU)?

A: YES, electronic licenses are still available and can be ordered. Only the #0D1 option i.e. factory integration has been discontinued.

Q: Can the **FLEX or TRACKING license SKU's** be HPE Factory Integrated?

A: NO, the FLEX and TRACKING license SKU's cannot be installed in the Hewlett Packard Enterprise Factory. However, these licenses can be installed in the factory as part of the Factory Express service which is chargeable.

Q: What is the difference between one (1) and three (3) year support?

A: You are entitled to a one (1) or a three (3) year support contract on licensed features. After your one (1) or three (3) year support contract expires, your iLO licensed features still work, and are enabled. However, you will not have HPE support for those licensed features; standard iLO non licensed features are still supported. Your licenses do not expire. They are valid for the life of the server on which they are applied.

Standard Features

Q: How are iLO standard features (included with every ProLiant server at no additional cost) supported?

A: iLO standard features and firmware updates are supported under the Server Hardware Warranty Contract.

iLO firmware updates are available at

- <http://www.hpe.com/support/iLO4> - for iLO 4
- <http://www.hpe.com/support/iLO5> - for iLO 5

For more information on HPE iLO licensing, please refer to the [HPE iLO Licensing Guide](#) at <http://www.hpe.com/support/iLOLicenseGuide-en>.

Licensing Redemption

HPE has a new licensing portal, visit us at <https://myenterpriselicense.hpe.com>

Q: What does the customer receive when the electronic version is ordered?

A: The customer will still receive an email that contains a link to the licensing portal and the license key will be printed on the electronic email.

Customers are HIGHLY encouraged to register the product on the licensing portal

Registration is important because, if you lose your license key, you can obtain it through the My License Portal <https://myenterpriselicense.hpe.com>

You receive your support contract that is included in the price of your iLO license.

For e-delivery products, the entitlement order number (EON) used to register the product on the licensing portal will be the same as the Hewlett Packard Enterprise sales order number.

Notes: This document is a consolidation of previous QuickSpecs and covers HPE iLO 5, HPE iLO 4, HPE iLO 3 and HPE iLO 2 for HPE ProLiant servers. Please visit: <http://www.hpe.com/info/iLO>

Alert Administration for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant support delivery of SNMP server agent alerts as well as internally generated management processor alerts (e.g. unsuccessful login attempt), to a management console such as HPE Systems Insight Manager, Insight Control, OneView. Traps forwarded by the processor can be configured in Insight Manager for delivery to an administrator's pager or e-mail.

Always On Intelligent Provisioning

Intelligent Provisioning is now Always On. Intelligent Provisioning is accessible from the iLO browser user interface anytime without having to reboot your server. Clicking Always On to access Intelligent Provisioning has the same capabilities as accessing Intelligent Provisioning by pressing F10 from the POST screen.

Auto-Configuration of IP Address using DNS/DHCP for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant provides automatic network configuration. A default name and Dynamic Host Configuration Protocol (DHCP) client that leases an IP address from the DHCP server on the network are standard with HPE iLO for ProLiant. This allows the management processor to register its device name with Domain Name Services (DNS) and Windows® Internet Naming Service (WINS). For systems that do not use DNS/DHCP, static IP configuration is also supported.

Automated Group Administration & Actions for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant group administration automates configuring and managing large deployments of Integrated Lights-Out processors. Using iLO's extensive scripting language with HPE Lights-Out Configuration Utility, the HPE Lights-Out Online Configuration Utility or RESTful Interface Tool,

Standard Features

an administrator can easily configure all settings for mass deployments, control all functions and activate the HPE Integrated Lights-Out (iLO) for ProLiant Advanced license keys simultaneously on multiple HPE ProLiant iLO processors. With a batch process or HPE System Insight Manager's powerful device query mechanism, these utilities enable scalable use and management of HPE ProLiant iLO's. Sample scripts are available at: <http://www.hpe.com/info/iLO>.

Auxiliary Power for HPE ProLiant

Because the HPE Integrated Lights-Out (iLO) for ProLiant management processor obtains its power from the auxiliary power plane of the server, it is always on when the server is plugged into a power source. If the server provides Redundant Power Supplies (RPS) then the HPE iLO for ProLiant will use redundant power and will continue operation in the event of a power supply failure.

Post led Indicator for HPE ProLiant

The Integrated Lights-Out (iLO) has been designed to provide feedback during the POST process as a blade system does not include a directly attached monitor. The Integrated Lights-Out (iLO) blinks the Server Health LED during the boot process to enable the onsite administrator the results of the POST process.

Embedded System Health for HPE ProLiant

On supported server models, the HPE iLO for ProLiant management processor monitors fans, temperature sensors, power supply sensors and VRMs without having the System Management Driver loaded. The status of these is accessible from all HPE iLO for ProLiant user interfaces (browser, SMASH command line Redfish API, XML scripts and IPMI) independent of the host operating system. The intelligence of iLO manages the Sea of Sensors thermal control, directs the Dynamic Power Capping technology and monitors the health of server components.

Flexible Interfaces for HPE ProLiant

Using any of the HPE iLO for ProLiant interfaces, customers can configure, update and control all HPE iLO for ProLiant Standard functions regardless of the state of the host server or operating system:

- **Browser** - HPE iLO for ProLiant is fully accessible by means of Microsoft® Internet Explorer®, and Mozilla Firefox® (Linux® and Windows® only).
- **Redfish API** - HPE iLO for ProLiant conforms to industry-standard specification and schema for data center infrastructure management sponsored and controlled by the Distributed Management Task Force, Inc. (DMTF), Redfish establishes a new management standard for system control that is scalable, easy to use, and secure with the effort to modernize heterogeneous data centers. In addition, HPE ProLiant servers expose iLO RESTful API extensions, allowing customers to experience the full range of value-add features available from a programmable interface.
- **Command line** - HPE iLO for ProLiant supports the new industry standard command line, DMTF System Management Architecture for Server Hardware, Server Management Command Line Protocol (SM CLP) specification. These commands can be used on other SM CLP compliant Hewlett Packard Enterprise products, such as the first generation iLO, Lights-Out 100 Management Processors, HPE Integrity iLO, and other non-Hewlett Packard Enterprise products.
- **Scripting** - HPE iLO for ProLiant supports a scalable scripting interface using either programmable JSON, XML or PERL scripting. This enables scalable, simultaneous configuration, update and operation large groups of HPE iLO for ProLiant servers as well as iLO and RiLOE II management processors.
- **Intelligent Platform Management Interface (IPMI)** is a standardized computer system interface used by system administrators for out-of-band management of computer systems and monitoring of their operation. System administrators can use IPMI messaging to monitor platform status (e.g. system temperatures, voltages, fans, power supplies and chassis intrusion); to query inventory information; to

Standard Features

review hardware logs of out-of-range conditions; or to perform recovery procedures such as issuing requests from a remote console through the same connections e.g. system power-down and rebooting, or configuring watchdog timers. The standard also defines an alerting mechanism for the system to send a simple network management protocol (SNMP) platform event trap (PET).

Flexible Network Connectivity for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant provides a choice between two network connection methods to access all functionality:

- **Dedicated connection** - Access HPE iLO for ProLiant via an embedded 10/100-MB (10/100/1000-MB on iLO 4) dedicated Ethernet NIC. This enables remote management over a dedicated, out-of-band management network. In-band SNMP notification of server problems on a real-time basis is also supported without separate telephone connections or modem sharing devices. The dedicated NIC can auto-negotiate speed and duplex options. The iLO Dedicated NIC provides the highest levels of reliability and security.
 - **Shared Network Port** - On selected ProLiant server models, HPE iLO for ProLiant supports network connectivity through a new high-speed shared connection via one of the embedded system NICs. The latest version of iLO also supports Shared network port over the Flexible -LOM providing full accessibility to all HPE iLO for ProLiant functions including browser, Virtual Media and Virtual Keyboard Video and Mouse in graphics mode. The management processor maintains a unique IP address and MAC allowing the network controller to route HPE iLO for ProLiant and host data correctly. With the Shared Network Port, out-of-band management and production data can share the same wire eliminating the separate network connection for each server.
-

Flexible Setup Options for HPE ProLiant

An onboard ROM-based configuration utility allows fast and easy setup without additional software. HPE iLO for ProLiant can also be setup via the browser or command line interface over the network. Integration with SmartStart Scripting Toolkit allows configuration of the card as part of the initial server deployment. For large deployments, the HPE Lights-Out Configuration Utility or the iLO REST tool can be used to configure groups of HPE iLO for ProLiant processors, saving time and resources.

iLO Access Options and Services Control (iLO 5 and above only)

Ability to turn enable/disable iLO access options and services.

iLO IDevID

iLO can be provisioned with server identity in the factory. This factory provisioned server identity is called iLO IDevID.

HPE servers can be securely onboarded into a customer network using the IDevID for 802.1X authentication. iLO IDevID

has life time validity and is immutable.

To instruct the HPE factory to provision a server with an IDevID, include SKU P41905-B21 in your order.

iLO Repository (iLO 5 and above only)

Storage space earmarked in the iLO which can be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware.

Standard Features

iLO Security Dashboard

Helps detect and address possible security vulnerabilities in current server setup

iLO Security Modes (iLO 5 and above only)

Ability to put harden iLO for specific security requirements.

iLO Service Port (Gen10 servers and above only)

The iLO Service port is a USB port connected to the iLO and is located on the front panel of the server. Users can connect their laptops to this port via a USB-Ethernet adapter (HPE recommends using the following HPE part Q7Y55A) and get the full access to the Integrate remote console. Users can also connect a USB drive to this port and download service logs to it.

All servers may not have an iLO Service Port please refer server QuickSpecs to confirm.

Immutable Root of Trust (iLO 5 and later only)

Signatures for validation of integrity of iLO and UEFI/BIOS are built into the iLO ASIC. This prevents any possibility of tampering of security signatures throughout the supply-chain.

Integrated Lights-Out (iLO) Management for HPE ProLiant

HPE Agentless Management 2.0

The base hardware monitoring and alerting capability is built into the system (running on the HPE iLO chipset) and starts working the moment that a power cord and an Ethernet cable is connected to the server. This means that:

- All **core** management is out-of-band for increased security and stability: no OS software required, no open SNMP port on the OS and zero downtime updates.
- **Monitor** and Alerting on key internal server components: CPUs, memory, temperatures, fans, SmartArray controllers, hard drives (including cache modules) and power supplies.
- HPE **Systems** Insight Manager (HPE SIM) can see the system and will give customers preview of the System Health Summary and Sub-System Details.
- iLO **integrates** with HPE OneView.

Notes: On Gen10 servers, server monitoring is only via Agentless Management, HPE does not provide HPE Insight Management Agents or HPE WBEM providers for Gen10 servers.

HPE Active Health System

HPE Active Health System is an essential component of the HPE iLO Management. It provides customers with: Diagnostics tools/scanners wrapped into one; Always on, continuous monitoring for increased stability and shorter downtimes; Rich configuration history; Health and service alerts; Easy export and upload to Service and Support.

HPE Active Healthy System Viewer Tool

Enables you to read the Active Health System log files. It will provide errors messages and advises on a resolution. Use can create a support file, simply by uploading your AHS log file from within this tool.

Visit <http://www.hpe.com/servers/AHSV> for the **FREE** online version.

HPE Intelligent Provisioning

Lets customers provision and configure a single server without any separate media. No more SmartStart CDs or Smart Update Firmware DVDs are needed. For more information regarding Intelligent Provisioning please go to website at <http://www.hpe.com/info/intelligentprovisioning>

Standard Features

HPE Embedded Remote Support

Hewlett Packard Enterprise offers embedded remote support that allows a customer to enable remote support directly from iLO (also OA and IP) without installing OS agents on the device, greatly reducing the time to activate remote monitoring. Through Insight Remote Support 7.0.5 and later versions and Insight Online direct connect capability, customers now benefit from 24x7 remote monitoring, auto-generated service events, support cases and anywhere, anytime monitoring with HPE Insight Online, a personalized cloud-based IT dashboard. Through the HPE Support Center portal, Insight Online displays devices remotely monitored by Hewlett Packard Enterprise and lets you easily track your auto-generated service events and support cases, view device configurations, and proactively monitor your Hewlett Packard Enterprise contracts and warranties as well as HPE Proactive service credit balances. The Insight Online dashboard is also available in the HPE Support Center Mobile App.

Integrated Lights-Out (iLO) Event Log for HPE ProLiant

The HPE iLO for ProLiant Event Log stores detailed management processor events and data independent of the host operating system. Actions like server power on/off, reset, changes in user configuration, clear event log, successful and unsuccessful login attempts are logged along with the user's access machine name in the iLO Event Log enabling audits for security or troubleshooting purposes. The iLO Event Log is easily accessible through the browser, command line, script or Insight Manager.

Integrated Lights-Out (iLO) Standard Blade Edition Features for HPE ProLiant

HPE iLO for ProLiant Standard Blade Edition is enhanced to include several features that are essential for blade operation. The following additional features are supported as standard features on HPE ProLiant BL c-Class and HPE Integrated Lights-Out (iLO) supported c-Class BladeSystem servers:

- Virtual Keyboard Video and Mouse remote graphic console.
 - Terminal Services Pass-Through supported in iLO2. Improvements in the iLO 3. Integrated Remote Console displaces the need for this feature. Virtual Media (browser access only to floppy disk, CD-ROM, DVD-ROM and USB-Drive based virtual media).
-

Integrated Management Log for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant captures and stores the server's Integrated Management Log (IML) for access via browser or command line even when the server is not operational. This capability can be helpful when troubleshooting remote host server problems. The IML contains a history of events that impact server health and management.

Integration with HPE Systems Insight Manager and other management applications for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant is integrated with Hewlett Packard Enterprise and other leading management applications to allow seamless use in lifecycle tasks and processes from deployment to fault management and administration. HPE OneView and HPE Systems Insight Manager (SIM) intelligently discovers HPE iLO for ProLiant devices and associates them with their host servers for fast access during fault management activities. HPE Insight Control Server Provisioning integrates tightly with HPE iLO when provisioning HPE ProLiant servers, including the Intelligent Provisioning capabilities of HPE ProLiant Gen8 servers. Intelligent discovery and launch of HPE iLO for ProLiant browser is also supported in HPE Openview Operations for Windows® and Network Node Manager®, Microsoft Operations Manager® and CA Unicenter®.

Integrated Remote Console for HPE ProLiant

The HPE iLO .NET Integrated Remote Console is launched from the iLO web browser interface, utilizes

Standard Features

Microsoft .NET Framework® 3.5 (on the client PC) and takes advantage of Microsoft DirectX® based hardware acceleration to provide high performance and outstanding user graphics. HPE iLO has an enriched viewing experience with maximum resolution of 1600 x 1200 and maximum color depth of 32k colors. With HPE iLO, remote screen fits within one window and the screen can be scaled to any size, avoiding the use of scroll bars.

HPE iLO for ProLiant has a Java-free Integrated Remote Console for environments with Microsoft Windows® host and client operating systems. With HPE iLO Standard and HPE iLO Standard Blade Edition, Integrated Remote Console provides access to Virtual Keyboard Video and Mouse in pre-OS text mode and Virtual power from a single screen. ProLiant OA/iLO Standard Blade Edition also allows virtual media to be controlled from the IRC.

Starting with iLO 5 v1.20 onwards a HTML5 remote console is supported.

Local User Accounts And Logon Records for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant Standard supports up to 12 local user accounts with customizable access rights, individual logins and passwords. HPE iLO for ProLiant also provides logging of user actions in the event log, progressive delays for failed login attempts, and login legal warning.

Microsoft Emergency Management Service Console Integration for HPE ProLiant

The Microsoft Emergency Management Service® console provides a text-based screen to access the host server. HPE Integrated Lights-Out (iLO) for ProLiant provides the option to access the EMS console from the Integrated Lights-Out (iLO) browser interface. The Emergency Management Service console option is available on all HPE ProLiant servers using Windows Server 2003® or later.

Mobile App for HPE iLO

HPE iLO brings additional efficiency and effective remote management at the touch of your fingertips with the HPE iLO Mobile App. The HPE iLO Mobile App gives you immediate secured access to your server from the touch of your Smartphone or Tablet devices. Today we support Apple's iOS and Android devices (Phone and Tablet). This feature is supported on HPE iLO 3 and HPE iLO 4. To learn more visit:

<http://www.hpe.com/info/ilo/mobileapp>.

Multi-Language Support

We provide our customers with the ability to read the HPE iLO GUI in the following languages: English, Japanese and simplified Chinese. Multi-Language support is only available on servers which carry a version of iLO with NAND.

Power Consumption Reporting for HPE ProLiant

On supported server models, the HPE iLO for ProLiant management processor displays the present power consumption in Watts and BTU. The present power is a five minute average that is calculated and displayed via all HPE iLO interfaces (browser, CLI, script).

Power Regulator for HPE ProLiant

Power Regulator for ProLiant can be enabled on supported server models from HPE iLO for ProLiant Standard browser, CLP and script interfaces. Power Regulator Static Low Power and Dynamic Power Savings Modes as well as Operating System based modes (AMD PowerNow or Intel Demand Based Switching) can be enabled to save on server power and cooling costs. On supported ProLiant servers,

Standard Features

Power Regulator allows CPU's to operate at lower frequency and voltage during periods of reduced application activity.

Power Supply High- Efficiency Mode for HPE ProLiant

Beginning with the HPE ProLiant G6 servers, power supply high efficiency mode enables servers to run at maximum power efficiency even at low loads. When operating in this mode, the ProLiant OA will channel load through a single primary supply, as opposed to balancing power load equally across both supplies. In the event of a power supply outage, the secondary supply will immediately assume the load for the server. Power supply high-efficiency mode is not enabled automatically and must be configured through the iLO user interface.

Remote Firmware Update for HPE ProLiant

This feature ensures that HPE Integrated Lights-Out (iLO) for ProLiant is always up-to-date with the latest firmware available from Hewlett Packard Enterprise. Updates to the ROM code on HPE iLO for ProLiant are accomplished through the browser interface, command line, REST API , XML script, or using online flash components for Windows® Linux® and VMware®.

Remote Serial Console (Virtual Serial Port) for HPE ProLiant

Access to the host server's serial, text-based (Virtual Serial Port) during all server states over an Ethernet network is a standard feature on all HPE Integrated Lights-Out for ProLiant management processors. From the operating system-independent console you can monitor and control the BIOS and the server during Power-On System start-up testing (POST), as well as Microsoft Emergency Management Services® and serial tty sessions on systems running Linux operating systems. After OS is installed access can be set up to be re-directed to the Virtual Serial Port. Also in the event of a crash you can configure the OS to send the core data dumps to the Virtual Serial port.

ROM-base Setup Utility (RBSU) for HPE ProLiant

Embedded configuration utility within the system ROM and accessible through the HPE Integrated Lights-Out (iLO) for ProLiant interface that facilitates pre-OS display of server resources, configuration of primary boot controller and boot order, and configuration of system devices and installed options.

Security for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant provides strong security for remote management in distributed IT environments by using industry-standard Secure Sockets Layer (SSL) and Transport Layer Security (TLS) encryption of HTTP data transmitted across the network. SSL or TLS encryption (up to 256-bit) ensures that the HTTP information is secure as it travels across the network.

HPE Integrated Lights-Out (iLO) for ProLiant also uses Secure Shell version 2 to provide strong authentication and encryption of commands executed on iLO management processors over a network. PuTTY and OpenSSH clients may be used to access HPE iLO for ProLiant over a Secure Shell connection.

In addition, HPE iLO for ProLiant provides a configurable option to enable strong encryption Advanced Encryption Standard (AES) on browser, REST API, CLP and XML scripting interfaces.

Single Sign-on for HPE ProLiant

When using local user accounts on HPE Integrated Lights-Out and BladeSystem Onboard Administrator, single-sign on is supported. This allows users to access automatically, login to HPE ProLiant iLO from the BladeSystem OA user interface.

Standard Features

Static IP Bay Configuration for HPE ProLiant

The Static IP Bay Configuration feature simplifies deployment by automatically assigning IP addresses to individual blades from a reserved static pool as they're powered on even if DHCP is present.

System Diagnostics for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant may be used to diagnose systems. The Remote Console, Integrated Remote Console and Remote Serial Console may be used to monitor the system for POST error messages. The Integrated Management Log and HPE iLO for ProLiant Event Log record events useful for diagnostics. HPE Integrated Lights-Out (iLO) for ProLiant Virtual Media (if activated by an iLO Advanced key) may be used to boot and run System Diagnostics.

Virtual Indicators for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant provides the ability to control server Unit ID LEDs from the HPE iLO browser, REST API command line (SM CLP), XML scripting. The server Unit ID LED is the blue LED on the ProLiant server that is used for identifying systems in a rack full of servers.

Virtual Key Video Mouse remote text console for HPE ProLiant

Embedded hardware remote console capabilities in a text mode screen prior to loading of the operating system; is provided as a standard feature on all ProLiant Integrated Lights-Out (iLO) management processors. This provides access to system BIOS and during Power-On System start-up testing using Virtual KVM technology. Remote text in "pre-OS" mode is accessible from the Integrated Remote Console and the Java applet Remote Console. The Java applet supports both Microsoft® and Sun Java® software.

Virtual Power Button for HPE ProLiant

Using a supported browser, command line or script interface, HPE Integrated Lights-Out (iLO) for ProLiant can be used to remotely operate the power button of a host. For example, if the host server is off, you can turn it on from the HPE ProLiant iLO browser, REST API, command line (SM CLP), XML. You can also power off and on the server in one step. A "press and hold" option is available for the Virtual Power Button in the event a momentary press is insufficient to power off a server experiencing an operating system failure.

Virtual Private Network (VPN) support for HPE ProLiant

HPE iLO for ProLiant functionality is available securely over the Internet around the world when used in conjunction with VPN technology. VPN is supported on both HPE iLO for ProLiant network connection methods, dedicated and shared network ports.

Simple Network Management Protocol Version 3 (SNMPv3)

SNMP is the protocol developed to manage nodes (servers, workstations, routers, switches and hubs etc.) on an IP network. HPE iLO now has SNMP Version 3 (SNMPv3) which has added security and remote configuration capabilities over the previous versions. The SNMPv3 architecture introduces the User-based Security Model (USM) for message security and the View-based Access Control Model (VACM) for access control. The architecture supports the concurrent use of different security, access control, and message processing models. More specifically: Security, authentication and privacy, authorization and access control, Administrative Framework, naming of entities, people and policies, usernames and key management, notification destinations, proxy relationships, and remotely configurable via SNMP operations.

Standard Features

IPv6 on Dedicated NIC

The HPE iLO 4 dedicated NIC supports IPv6 addressing. DHCPv6, SLAAC/router assigned addresses and static IPv6 addresses are supported.

iLO Federation Discovery

Built in standard uniquely recognizes numerous servers at once via multicast discovery methods supporting both IPv4 and IPv6 environment providing the following information:

- Queries and displays group health status
- Displays group configuration
- Provides registered server name
- Discovers and identifies what servers have licenses installed

See the section below for additional iLO Federation Management features that are supported with the iLO Advanced license.

To learn more see the iLO Federation User Guide: <http://www.hpe.com/support/ilo5-federation-ug-en>

iLO Restful Application Program Interface (API)

The iLO RESTful API management interface functionality is available for iLO 4, iLO 5 and Moonshot iLO Chassis Management Module-based. Hewlett Packard Enterprise servers uses the basic HTTP operations (GET, PUT, POST, DELETE, and PATCH) to either submit or return a JSON formatted "resource" to or from a URI. The API enables users to manage one or multiple servers to:

- Get full inventory
- Control Power and reset
- Configure BIOS, iLO 4, iLO 5 and Smart Array (supported only on iLO 5/Gen10 controllers and above) settings
- Status of server health
- Fetch event logs and SSH Serial Console
- And more

iLO RESTful API Redfish conformant. To learn more see the <https://hewlettpackard.github.io/ilo-rest-api-docs/ilo5/> or <http://www.hpe.com/info/restfulapi>.

Notes: For more information on supported servers and licensed features see the [iLO license matrix](#).

Advanced functionality, through the HPE iLO Advanced license such as graphical remote console, multi-user collaboration, and video record/playback can be activated with the optional HPE iLO Advanced or HPE iLO Advanced for BladeSystem licenses. These HPE iLO Advanced licenses can be purchased stand-alone or as part of HPE Insight Control or HPE OneView. The Advanced licensed features offer sophisticated remote administration of servers in dynamic data center and remote locations and can help significantly reduce cost associated with IT-related travel and unplanned downtime. For more specific license information, visit our [iLO Family Datasheet](#).

3rd Party Key Manager Support

Facilitates key exchange for disk connect to a smart array controller, encrypted by Utimaco ESKM, Gemalto Safenet or SafenetAT key managers - providing easy integration of ProLiant servers in environments where the encryption key management is done by Utimaco ESKM, Gemalto Safenet or SafenetAT.

Standard Features

Automatic and On-Demand Video Record and Playback for HPE ProLiant

HPE ProLiant iLO Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Server faults include an ASR, server boot sequence, Linux panic, or Windows® blue screen. Additionally users are able to manually record and save any console video sequence to their client hard drive for replay from the HPE iLO Integrated Remote Console.

Automatic Firmware Recovery (iLO 5 and above only)

Recover iLO, UEFI/BIOS and other essential firmware automatically to a known good version (either factory default or a known good firmware recipe resident in the iLO Repository) on detection of a compromised iLO, UEFI/BIOS and other essential firmware.

Commercial National Security Algorithms mode (CNSA) support (iLO 5 and above only)

Support for CNSA compliant cryptography preventing the use of insecure algorithms.

Directory Services Integration for HPE ProLiant

HPE Integrated Lights-Out (iLO) for ProLiant integrates with enterprise-class directory services to provide secure, scalable, and cost effective user management. Directory services, such as Microsoft® Active Directory Novell eDirectory and OpenLDAP (iLO 4 v2.53), can be used to authorize directory users with assigned user roles to Integrated Lights-Out processors. With Active Directory, customers have the flexibility to integrate with or without a schema extension. An easy and reliable installation program is available to install a management console snap-in and extend customer's existing directory schema to enable directory support for the HPE lights-out management products. A directory migration tool is available to automate setup for both methods of integration. In addition, current versions of HPE iLO firmware will support directory nested groups.

Global Team Collaboration for HPE ProLiant

Up to six (via iLO 3 and above) and four (via iLO 2) HPE ProLiant iLO users with remote console privileges in different locations can collaborate using the shared remote console to troubleshoot, maintain and administer remote servers. In iLO2, the session leader can allow either view only or full console control by individual participants. In iLO3 and iLO4 the session leader can allow full console control by individual participants. Shared remote console mode is supported from the Integrated Remote Console on clients using Microsoft® Internet Explorer browsers as well as Firefox via iLO 3.

iLO Federation Management

The next generation enabling technology delivering unprecedented scale, speed and simplicity. iLO Federation Management, requires an iLO Advanced, iLO Advanced for BladeSystem or iLO Scale-Out license, and enables users to manage multiple servers as one via:

- Group Power Control
- Group Power Capping
- Group Firmware Update
- Group Configuration
- Group Virtual Media
- Group License Activation

To learn more see the iLO Federation User Guide:

<http://h20564.www2.hpe.com/hpsc/doc/public/display?docId=c04149067>

Standard Features

iLO Free Trial 60 Day License

A FREE license key is available to temporarily activate iLO licensed features for evaluation purposes. The evaluation key unlocks all of the industry leading remote management on supported HPE ProLiant servers up to 60 days. Evaluation keys are available at: <http://www.hpe.com/info/TryiLO>.

iLO Serial Port Record\ Playback for HPE ProLiant

HPE iLO takes the output data from the Remote Virtual Serial Console (VSP) and saves it to iLO memory for so data can be later accessed. Very similar to "video console replay ", but is text based data only from the serial port. This would be used to store logs of data and\or history of activity to be retrieved later to see exactly what activity was done - or actions occurred (Play back) but all text based.

Intelligent System Tuning (Jitter Smoothing) (iLO 5 and above only)

Improve workload throughput, start by leveling and balancing frequency fluctuation with HPE's patented Jitter Smoothing technology. Engaging processor turbo boost can cause frequency fluctuations or "jitter" which results in a constant struggle between maximum output and deterministic performance needs. Now available on all ProLiant Gen10 servers, Jitter Smoothing mitigates processor frequency fluctuation to improve overall workload throughput above turbo mode. Beneficial for high frequency trading applications. To enable this capability an iLO Advanced license is needed.

Intelligent System Tuning (Core Boosting) (iLO 5 and above only)

When enabling Intel Turbo Boost mode, Core Boosting will maintain higher frequencies across more active cores on select servers and Intel processors; This is accomplished while maintaining Intel specs, warranty, and reliability. To enable this capability iLO Advanced license is needed

One-Button Secure Erase

Easily erase all user data on the server, secondary storage and NVRAM, per NIST Standards 800-88r1 with the click of a button in the UI/one call via RESTful API. Allowing easy repurpose and redeployment of servers with confidence that servers have been reset back to factory settings.

Power Regulator Reporting for HPE ProLiant

iLO Advanced iLO Advanced for BladeSystem and iLO Scale-Out enable access to power related data from any of the three iLO interfaces (browser, script or command line) on supported server models. Available information includes time spent in Power Regulator Dynamic Savings mode and average, peak and minimum power consumption over 24 hour intervals. Check the server QuickSpecs to verify specific system support for Power Regulator and power monitoring.

Remote Kernel Debugger for Windows® for HPE ProLiant

Integrated Lights-Out allows you to connect a Microsoft® Windows® debugger running on a remote PC to the iLO Virtual Serial Port (VSP) to diagnose and repair operating system kernel errors.

Remote System logs

HPE iLO keeps a log of everything being done, so it can later be used for troubleshooting or simply has a record. Syslog can be configured to receive logging from a remote client, or to send logging to a remote syslog server. Remote logging is sending a duplicate record of those events not only to the local machine but to a remote machine as well.

Standard Features

Runtime Firmware Validation (iLO 5 and above only)

Validation of iLO and UEFI/BIOS firmware at runtime. Notification and automated recovery on detection of compromised firmware.

Server Configuration Lock

Ensures secure transit and locks server hardware configuration using a password

Server System Restore

Improvement of server system restore - extending the number of components that can be restored

Single Sign-On for HPE ProLiant

ProLiant users can automatically login to iLO from HPE OneView, HPE System Insight Manager (version 5.1 or greater) and the HPE BladeSystem Onboard Administrator. In addition, to direct access and authentication using iLO Active Directory integration, the role based authentication in HPE OneView, SIM and Onboard Administrator can be used to simplify user access and user account administration.

Two-factor authentication via Kerberos for HPE ProLiant

HPE ProLiant Integrated Lights-Out (iLO) provides strong user authentication with two-factor authentication via Kerberos or smart cards such as Common Access Card (CAC) and Personal Identity Verification (PIV) cards using digital certificates embedded on smartcards or USB -security tokens. Using this form of strong authentication, iLO access can be restricted only to IT individuals possessing a certificate bearing smartcard or USB security token and a PIN.

Video Player for HPE ProLiant

HPE iLO allows you to view automatically captured server video footage or on-demand captured footage within an iLO session or separately through the new iLO Video Player.

Virtual Keyboard Video and Mouse graphic console for HPE ProLiant

HPE iLO graphical consoles provide Virtual KVM capabilities with KVM over IP performance. This gives system administrators a single console that is responsive and agile for routine administration and emergency situations. iLO Virtual KVM works with a standard browser and no additional software is required on the remote server or client system for iLO 2. HPE iLO 3 and iLO 4 require the .NET Framework 3.5, which is already provided with Windows® 7.

Virtual Media for HPE ProLiant

The USB-based Virtual Media feature allows an IT administrator to boot the remote server using a standard 1.44-MB diskette, CD ROM, DVD+R or USB flash drive on a client PC or from a floppy diskette, CD or DVD image stored on a virtual media server on the network. Virtual Media saves time and increases efficiency by eliminating the need to visit servers in datacenters and remote sites just to insert a diskette, CD-ROM, DVD-ROM or USB key.

Warranty

Hewlett Packard Enterprise will replace defective delivery media replacement for a period of 90 days following the date of purchase.

Standard Features

Workload Performance Advisor

Provides server tuning recommendations to improve server performance

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 reimaged 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/completecure>

Service and Support

HPE Support Center

Personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more [HPE Support Center](#)

HPE Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Services or HPE contractual support agreement.

Notes: HPE Support Center Mobile App above is subject to local availability.

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 QuickSpecs, 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.

HPE Services

iLO Care Pack options can be found at

<https://ssc.hpe.com/portal/site/ssc?action=determineNodeContents&nodeId=28814>

Configuration Information

In order to assist with your buying decisions on iLO Licensing, Hewlett Packard Enterprise provides the following reference material.

- HPE iLO Standard - FREE - no license required
- HPE Factory Installed Licenses - No extra cost
- **Selecting the right iLO license**
- **HPE iLO Licensing Guide**
- **Supported Servers and Features**

Notes:

- HPE iLO licenses can be purchased regardless of the version of iLO you are using, however some of the licensed features may require a specific iLO ASIC version to function.
- HPE iLO Scale-Out, Essentials, Advanced for BladeSystem, and Advanced Premium Security Edition licenses have been discontinued with the release of iLO 5 v1.40.
- With iLO 5 v1.40, the security features from the Advanced Premium Security Edition license will now be included with the purchase of an iLO Advanced license.
- For more information on license tiers, please visit our [HPE iLO Licensing Guide](#)

HPE Integrated Lights-Out (iLO) Advanced for ProLiant Servers (supported on ALL Servers)

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Common Password FIO Setting	P08040-B21

Notes:

- Supported on ALL Servers
- HPE highly recommends changing of this password immediately after the initial onboarding process.
- Tracking and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.
- Tracking licenses may only be purchased by customers that have implemented an activation key agreement (AKA) with Hewlett Packard Enterprise. You can request an AKA at <http://www.hpe.com/info/aka>
- When purchasing an iLO electronic license, regardless of the number of licenses purchased, customers will obtain only ONE (1) License Entitlement Certificate. This ONE (1) License Entitlement Certificate will be used for all licenses purchased.
- An iLO Advanced license is automatically included with Synergy compute modules. Use the licensing page to view the license. You cannot add or remove a license on Synergy compute modules.

HPE recommended USB to Ethernet Adapter to connect iLO Service Port to laptops

Configuration Information

HPE Serial Special Cable Kits

Q7Y55A

Notes: For more information, visit: <http://www.hpe.com/info/ilo/licensing>**Discontinued iLO Licenses and Replacement Part Numbers**

HPE is simplifying iLO licensing. All features would either be standard or enable via iLO Advanced license. All other iLO iLO licenses are being discontinued.

Please see our **HPE iLO Licensing Guide** documentation for more details surrounding this transition.

Summary:

- Customers who have iLO Advanced and upgrade to v1.40 will get the security features at no additional cost.
- Customers that already have iLO Advanced Premium Security Edition will continue to get the security features as before.
- The iLO Essentials and iLO Advanced for BladeSystem licenses can no longer be purchased after January 31, 2019.
- The iLO Advanced Premium Security Edition license can no longer be purchased after the release of iLO 5 v1.40
- All the above changes will not impact our customers support and support agreements.
- Customers who have licenses which are discontinued will continue to use the features and get support as long as they have a valid support contract
- Customer who have licenses which are discontinued but have not be applied to a server, can use these licenses at a time of their choosing.
- Previously purchased licenses that are unused can still be utilized

Table 1: Discontinued iLO Essentials Licenses and Replacement Part Numbers:

Description	SKU	Replacement SKU Description	Replacement SKU
HPE iLO Essentials License with 1yr Support on iLO Licensed Features	BD775A	HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Essentials License with 3yr Support on iLO Licensed Features	BD774A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Essentials Electronic License with 1yr Support on iLO Licensed Features	E6U62ABE	HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Essentials Electronic License with 3yr Support on iLO Licensed Features	E6U61ABE	HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE

Configuration Information

Table 2: Discontinued iLO Advanced for BladeSystem Licenses and Replacement Part Numbers:

Description	SKU	Replacement SKU Description	Replacement SKU
HPE iLO Advanced for BladeSystem 8-server License with 1yr Support on iLO Licensed Features	512489-B21	None	None
HPE iLO Advanced for BladeSystem 1-server License with 1yr Support on iLO Licensed Features	512488-B21	HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced for BladeSystem 1-server License with 3yr Support on iLO Licensed Features	BD502A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced for BladeSystem Electronic License with 1yr Support on iLO Licensed Features	E6U60ABE	HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced for BladeSystem Electronic License with 3yr Support on iLO Licensed Features	E6U63ABE	HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced for BladeSystem Flexible Quantity License with 1yr Support on iLO Licensed Feature	512490-B21	HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21

Description	SKU	Replacement SKU Description	Replacement SKU
HPE iLO Advanced for BladeSystem Flexible Quantity License with 3yr Support on iLO Licensed Features	BD503A	HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced for BladeSystem AKA Tracking License with 1yr Support on iLO Licensed Features	512491-B21	HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced for BladeSystem AKA Tracking License with 3yr Support on iLO Licensed Features	BD504A	HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Advanced Blade Electronic License with 3yr 24x7 Tech Support and Updates	BD503AAE	HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE

Table 3: Discontinued iLO Advanced Premium Security Edition Licenses and Replacement Part Numbers:

Description	SKU	Replacement SKU Description	Replacement SKU
HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE	None	None
HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features	Q7E31A	HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features	Q7E33A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features	Q7E32AAE	HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE

Configuration Information

HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features	Q7E34AAE	HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features	Q7E32A	HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features	Q7E34A	HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E35A	HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Premium Security AKA Tracking License with 3yr Support on Licensed Features	Q7E36A	HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A

Factory Integration Rules:

Factory integration of iLO electronic licenses (E-LTU) has been discontinued. If you need factory integration of iLO licenses please order the physical license along with the #0D1 option. This will ensure factory integration of the iLO license at no extra cost.

Notes:

– When a user purchases an iLO license they get the right to use the licensed features perpetually, the time duration in the license refers to the duration for which they are entitled to support and updates. An iLO license is tied to the life of the server that it has been applied on, it cannot be transferred from that server to any other server.

– When purchasing an iLO electronic license, regardless of the number of licenses purchased, customers will obtain only ONE (1) License Entitlement Certificate. This ONE (1) License Entitlement Certificate will be used for all licenses purchased.

Technical Specifications

HPE iLO On System Management	
Architecture	PCI Express based health and remote management ASIC
Processor	iLO 5 Embedded ARM processor core operating at 800MHz iLO 4 Embedded ARM processor core operating at 400MHz
Upgradeability	Firmware upgradeable via Flash ROM
Video Support	iLO 5 1920 x 1200 (32 bpp) iLO 4 1920 x 1200 (16 bpp)
Interfaces	HPE iLO Dedicated* Network connection (10/100/1000 Mb/s) on rack, tower and SL systems Notes: *Optional Module on some servers. HPE iLO Shared Network connection (10/100/1000 Mb/s) on rack, tower and SL systems HPE iLO network connection on blades (100 Mb/s) to Onboard Administrator (with 10/100/1000 Mb/s uplink) on blade systems HPE iLO network connection on Synergy compute modules (1000 Mb/s) to the Enclosure Manager
Operating System Support	For information on the Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from Hewlett Packard Enterprise, please visit our OS Support Site at: http://www.hpe.com/info/ossupport .
Client System Support	For information on Client System Support, please visit the HPE iLO Release notes
Client Browser Support	Microsoft Internet Explorer Firefox Extended Support Release (ESR) Google Chrome Notes: Please refer to the iLO GUI login help page for latest list of supported browser versions.
Command Line Support	Secure Shell and serial port access Secure Shell version 2 CLP and XML scripting interface RESTful Interface tool
Security	FIPS 140-2 validation Common Criteria certification Secure Socket Layer Transport Layer Security Configurable for PCI DSS compliance Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser AES encryption of video iLO 5 Immutable silicon root of trust Runtime firmware validation CNSA support Common Access Card support Security Modes Granular Control over iLO services and access options Encrypted virtual media
Directory Support Services	Active Directory, OpenLDAP, Novell eDirectory

Technical Specifications

Driver Support	HPE ProLiant iLO Management Controller Driver Package
Management protocols supported	SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), HPE RIBCL XML, and iLO RESTful API (Redfish Spec conformance)

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-Oct-2021	Version 32	Changed	Service and Support Section was updated
02-Aug-2021	Version 31	Changed	Service and Support Section was updated
07-Jun-2021	Version 30	Changed	Added information on changes in 2.xx Overview and Standard Features sections were updated
02-Dec-2019	Version 29	Changed	Service and Support Section was updated. Overview and Configuration Information sections were updated.
02-Apr-2019	Version 28	Changed	Overview section updated. Added new features in Standard Features section.
04-Jun-2018	Version 27	Changed	Overview section was updated.
05-Mar-2018	Version 26	Changed	SKU Descriptions were updated
05-Feb-2018	Version 25	Changed	Overview -What's New section was updated
04-Dec-2017	Version 24	Changed	Overview and Standard Features sections were updated
23-Oct-2017	Version 23	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
25-Sep-2017	Version 22	Added	Added Information for iLO 5 v1.15 and iLO 4 v.2.54 and v2.55
17-Jul-2017	Version 21	Changed	The SKU Q7E36A changed from 1yr support to 3yr support.
11-Jul-2017	Version 20	Added	Added iLO 5/Gen10 information.
05-Jun-2017	Version 19	Changed	Added information on version 2.53. Added information on changes to #0D1 option for Electronic SKUs and the fact that it would be discontinued. Added a pointer to iLO licensing guide for detailed information on licensing. Added RESTful API information under scripting. RESTful API branding changes. Removed information on feature of 2.40 related to critical temperature cutoff as it applied to a small subset of servers.
18-Nov-2016	Version 18	Added	Added a note on licensing for Synergy compute modules and note on 2.50
26-Sep-2016	Version 17	Changed	Overview sections was revised.
06-Jun-2016	Version 16	Changed	Overview section was updated.
18-Mar-2016	Version 15	Changed	Removed Care Pack SKU numbers and replaced with link to site with Care Pack information, this will ensure customers get the latest SKU information.
19-Feb-2016	Version 14	Changed	Added new HPE Pointnext operational and licenses information. Overview, and Standard Features were revised.
28-Sep-2015	Version 13	Changed	HPE RESTful Application Program Interface (API) section was added to Standard Features. Redfish 1.0 Spec conformance was added to the management protocols supported in Technical Specifications. HPE RESTful API was revised in the Overview section.
03-Mar-2015	Version 12	Changed	Overview section was revised.
10-Oct-2014	Version 11	Changed	Overview section was revised.
09-Sep-2014	Version 10	Changed	Changes made throughout the QuickSpecs.
18-Feb-2014	Version 9	Changed	Changes made in Step 2.
14-Feb-2014	Version 8	Changed	Changes made throughout the QuickSpecs.

Summary of Changes

08-Nov-2013	Version 7	Changed	Models and HPE Pointnext operational services were revised.
10-Sep-2013	Version 6	Changed	Models and HPE Pointnext operational services were revised.
19-Aug-2013	Version 5	Changed	Overview: change was made in HPE Embedded Remote Support (iLO 4) section only.
29-Mar-2013	Version 4	Changed	Overview: Updated Product description at the beginning of the section and updated hyperlink Models section. Standard Features: Completely updated Remote Serial Console (Virtual Serial Port) for HPE ProLiant section. Additional Features: Completely updated Text Console via SSH for HPE ProLiant section.
19-Feb-2013	Version 3	Changed	Overview and Models sections completely revised. The HPE Pointnext operational descriptions were updated in the Related Options section. Added iLO Serial Port Record\ Playback for HPE ProLiant, and Remote System logs to the Additional Options section. HPE iLO 4 On System Management was added to the Technical Specifications section.
31-Aug-2012	Version 2	Changed	Changes made throughout the QuickSpecs.
06-Mar-2012	Version 1	New	Initial version.

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c04154343 - 14276 - Worldwide - V32 - 04-October-2021

Manufacturer's Name: Hewlett Packard Enterprise Company
Manufacturer's Address: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declares under its sole responsibility that the product:

Product Name and/or Model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Regulatory Model Number: TPS-I010
Product Options: All

conforms to the following product specifications and regulations:

Safety	Electromagnetic Compatibility
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Ecodesign

Regulation (EU) 2019/424
EN 303 470 V1.1.1

Restriction of the use of certain hazardous substances
EN 50581:2012

The product complies with the requirements of Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits, Directive 2014/30/EU relating to electromagnetic compatibility, Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products, Directive 2011/65/EU as amended on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and carries the CE marking accordingly.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Additional Information

This product is assigned a Regulatory Model Number which stays with the regulatory aspects of the design. The Regulatory Model Number is the main product identifier in the regulatory documentation and test reports, this number should not be confused with the marketing name or the product numbers. Any product bearing this Regulatory Model Number that does not carry the CE marking is not compliant with all the requirements listed above and may not be placed on the EU market.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulatory Manager
HPE, Houston Product Compliance Center

Contact for regulatory topics only

EU: HPE, Postfach 0001, 1122 Wien, Austria

US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Име на производителя: Hewlett Packard Enterprise Company
Адрес на производителя: 11445 Compaq Center Drive West, Houston, TX 77070, USA

декларира на собствена отговорност че продуктът:

име и/или модел на продукта: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
нормативен номер на модела: TPS-I010
опции на продукта: целият

съответства на следните спецификации на продукта и регламенти:

безопасност
EN 62368-1:2014
EN 62479:2010

Електромагнитната Съвместимост
EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Екодизайн
Регламент (ЕО) 2019/424
EN 303 470 V1.1.1

Ограничението за употребата на определени опасни вещества
EN 50581:2012

Този продукт отговаря на изискванията на Директива 2014/35/ЕС относно електрически съоръжения, предназначени за използване при някои ограничения на напрежението, Директива 2014/30/ЕС относно електромагнитната съвместимост, Директива 2009/125/ЕО за създаване на рамка за определяне на изискванията за екодизайн към продукти, свързани с енергопотреблението, Директива 2011/65/ЕС в текущата версия относно ограничението за употребата на определени опасни вещества в електрическото и електронното оборудване, и носи съответната маркировка CE.

Допълнителна информация

Този продукт има нормативен номер на модела, който съответства на нормативните аспекти на дизайна. Нормативният номер на модела е основният идентификатор на продукта в нормативната документация и протоколите от тестовете, като този номер не трябва да се бърка с търговското име или номерата на продукта. Всеки продукт, носещ този нормативен номер на модела, който не носи маркировка CE, няма да отговаря на всички изброени по-горе изисквания и може да не бъде пуснат на пазара на ЕС.



Houston, TX
25.05.2021

Bryan Vanalstyne, Регулаторен мениджър
HPE, Houston Product Compliance Center

Информация за връзка в съответния регион само по правни въпроси

ЕС: HPE, Postfach 0001, 1122 Wien, Austria
САЩ: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Název výrobce: Hewlett Packard Enterprise Company
Adresa výrobce: 11445 Compaq Center Drive West, Houston, TX 77070, USA

prohlašuje na svou odpovědnost že výrobek:

Název Produktu a/nebo model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Regulační číslo modelu: TPS-I010
Možnosti výrobku: Všichni

je v souladu s následující specializací výrobků a nařízeními:

Bezpečnost	Elektromagnetické Kompatibility
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Ekodesign
Nařízení (ES) 2019/424
EN 303 470 V1.1.1

Omezení používání některých nebezpečných látek
EN 50581:2012

Tento výrobek splňuje požadavky Směrnice 2014/35/EU týkajících se elektrických zařízení určených pro používání v určitých mezích napětí, Směrnice 2014/30/EU týkajících se elektromagnetické kompatibility, Směrnice 2009/125/ES o stanovení rámce pro určení požadavků na ekodesign výrobků spojených se spotřebou energie, Směrnice 2011/65/EU v aktuální verzi o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních, a je správně CE označený.

Další informace

Výrobek má přidělené regulační číslo modelu, které je v souladu s regulačními aspekty designu. Regulační číslo modelu je hlavní identifikátor výrobku v regulační dokumentaci a v protokolu o zkoušce a není možné ho zaměňovat s obchodním názvem nebo číslem výrobku. Žádný produkt nesoucí toto číslo regulačního modelu, který nemá označení CE, nebude splňovat všechny výše uvedené požadavky a nesmí být uveden na trh EU.



Houston, TX
25.05.2021

Bryan Vanalstyne, Manažer regulační
HPE, Houston Product Compliance Center

Kontakt výhradně pro regulační záležitosti

EU: HPE, Postfach 0001, 1122 Wien, Austria
USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Producents navn: Hewlett Packard Enterprise Company
Producents adresse: 11445 Compaq Center Drive West, Houston, TX 77070, USA

erklærer under eget ansvar at produktet:

Produktnavn og/eller model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Lovpligtigt modelnummer: TPS-I010
Produktmuligheder: Alle

opfylder følgende produktspecifikationer og bestemmelser:

Sikkerhed

EN 62368-1:2014
EN 62479:2010

Elektromagnetisk Kompatibilitet

EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Miljøvenligt design

Forordning (EF) 2019/424

EN 303 470 V1.1.1

Begrænsning af anvendelsen af visse farlige stoffer

EN 50581:2012

Produktet overholder hermed kravene i Direktiv 2014/35/EF lovgivning om elektrisk materiel bestemt til anvendelse inden for visse spændingsgrænser, Direktiv 2014/30/EF lovgivning om elektromagnetisk kompatibilitet, Direktiv 2009/125/EF om rammerne for fastlæggelse af krav til miljøvenligt design af energirelaterede produkter, Direktiv 2011/65/EF i den aktuelle version om begrænsning af anvendelsen af visse farlige stoffer i elektrisk og elektronisk udstyr, og bærer CE mærkningen i overensstemmelse hermed.

Yderligere information

Dette produkt er tildelt et lovpligtigt modelnummer, som forbliver ved de lovgivningsmæssige aspekter af designet. Det lovpligtige modelnummer er den primære produktidentifikator i den lovgivningsmæssige dokumentation og testrapporter, dette nummer bør ikke forveksles med markedsføringsnavnet eller produktnumrene. Ethvert produkt, der bærer dette reguleringsmodellenummer, der ikke har CE-mærkning, vil ikke overholde alle ovennævnte krav og må ikke markedsføres på EU-markedet.



Houston, TX
25.05.2021

Bryan Vanalstyne, Reglerende chef
HPE, Houston Product Compliance Center

Kontakt, kun til lovgivningsmæssige spørgsmål

EU: HPE, Postfach 0001, 1122 Wien, Austria

US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Name des Herstellers: Hewlett Packard Enterprise Company
Adresse des Herstellers: 11445 Compaq Center Drive West, Houston, TX 77070, USA

erklärt in alleiniger Verantwortung dass das Produkt:

Produktbezeichnung und/oder Modell: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Regulatorische Modellnummer: TPS-I010
Produktoptionen: Alle

den folgenden Produktspezifikationen und Richtlinien entspricht:

Sicherheit

EN 62368-1:2014
EN 62479:2010

Elektromagnetische Verträglichkeit

EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Umweltgerechte Gestaltung

Verordnung (EU) 2019/424

EN 303 470 V1.1.1

Beschränkung der Verwendung bestimmter gefährlicher Stoffe

EN 50581:2012

Das Produkt erfüllt die Anforderungen von Richtlinie 2014/35/EU über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen, Richtlinie 2014/30/EU über die elektromagnetische Verträglichkeit, Richtlinie 2009/125/EG zur Schaffung eines Rahmens für die Festlegung von Anforderungen an die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte, Richtlinie 2011/65/EU in der geltenden Fassung zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten, und trägt dementsprechend die CE Kennzeichnung.

Zusatzinformation

Diesem Produkt ist eine regulatorische Modellnummer zugeordnet, welche an die regulatorischen Aspekte des Designs gebunden ist. Die regulatorische Modellnummer ist das Hauptproduktkennzeichen in der Dokumentation und in den Prüfberichten; diese Nummer ist nicht mit dem Marketingnamen oder den Produktnummern zu verwechseln. Produkte mit dieser Regulierungsmodellnummer, die nicht die CE Kennzeichnung tragen, erfüllen nicht alle oben angeführten Anforderungen und dürfen nicht im EU Markt in den Verkehr gebracht werden.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulierungsleiter
HPE, Houston Product Compliance Center

Kontakt für regulatorische Themen

EU: HPE, Postfach 0001, 1122 Wien, Austria

US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Επωνυμία κατασκευαστή:
Διεύθυνση κατασκευαστή:

Hewlett Packard Enterprise Company
11445 Compaq Center Drive West, Houston, TX 77070, USA

δηλώνει με αποκλειστική του ευθύνη ότι το προϊόν:

Όνομα ή/και μοντέλο προϊόντος:

HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus

Αριθμός μοντέλου σύμφωνα με τη νομοθεσία:

TPS-I010

Προαιρετικά χαρακτηριστικά προϊόντος: όλοι

Συμμορφώνεται προς τις ακόλουθες προδιαγραφές και κανονισμούς:

ασφάλεια

EN 62368-1:2014

EN 62479:2010

ηλεκτρομαγνητική συμβατότητα

EN 55032:2015 Class A

EN 55035:2017/A11:2020

EN 61000-3-2:2014

EN 61000-3-3:2013

Οικολογικού σχεδιασμού

Κανονισμός (ΕΚ) 2019/424

EN 303 470 V1.1.1

τον περιορισμό της χρήσης ορισμένων επικίνδυνων ουσιών

EN 50581:2012

Το παρόν προϊόν συμμορφώνεται προς τις απαιτήσεις της Οδηγία 2014/35/ΕΕ των αναφερομένων στο ηλεκτρολογικό υλικό που προορίζεται να χρησιμοποιηθεί εντός ορισμένων ορίων τάσεως, Οδηγία 2014/30/ΕΕ σχετικά με την ηλεκτρομαγνητική συμβατότητα, Οδηγία 2009/125/ΕΚ για τη θέσπιση πλαισίου για τον καθορισμό απαιτήσεων οικολογικού σχεδιασμού όσον αφορά τα συνδεδεμένα με την ενέργεια προϊόντα, Οδηγία 2011/65/ΕΕ στην τρέχουσα έκδοση για τον περιορισμό της χρήσης ορισμένων επικίνδυνων ουσιών σε ηλεκτρικό και ηλεκτρονικό εξοπλισμό, και φέρει την ανάλογη σήμανση CE.

Πρόσθετες πληροφορίες

Το παρόν προϊόν συνοδεύεται από τον αριθμό μοντέλου που προβλέπεται από τη νομοθεσία σχετικά με τον σχεδιασμό του. Ο εν λόγω κανονιστικός αριθμός μοντέλου είναι ο κύριος αναγνωριστικός αριθμός του προϊόντος στα έγγραφα ρυθμιστικού χαρακτήρα και στις εκθέσεις δοκιμών, και δεν πρέπει να συγχέεται με την εμπορική ονομασία ή τους αριθμούς προϊόντος για σκοπούς εμπορικής διάθεσης. Κάθε προϊόν που φέρει αυτόν τον κανονιστικό αριθμό μοντέλου που δεν φέρει τη σήμανση CE δεν πληροί όλες τις απαιτήσεις που αναφέρονται παραπάνω και δεν μπορεί να διατεθεί στην αγορά της ΕΕ.



Houston, TX
25.05.2021

Bryan Vanalstyne, Ρυθμιστικός Διευθυντής
HPE, Houston Product Compliance Center

Στοιχεία επικοινωνίας αποκλειστικά για κανονιστικά ζητήματα

ΕΕ: HPE, Postfach 0001, 1122 Wien, Austria

ΗΠΑ: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nombre del fabricante: Hewlett Packard Enterprise Company
Dirección del fabricante: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declara bajo su sola responsabilidad que el producto:

Nombre del producto y/o modelo: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Número de modelo reglamentario: TPS-I010
Opciones del producto: Totos

cumple con las siguientes especificaciones y regulaciones de productos:

Seguridad

EN 62368-1:2014
EN 62479:2010

Compatibilidad Electromagnética

EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Diseño ecológico

Reglamento (UE) 2019/424

EN 303 470 V1.1.1

Restricciones a la utilización de determinadas sustancias peligrosas

EN 50581:2012

El producto adjunto cumple con los requisitos de la Directiva 2014/35/UE sobre el material eléctrico destinado a utilizarse con determinados límites de tensión, Directiva 2014/30/UE en materia de compatibilidad electromagnética, Directiva 2009/125/CE por la que se insta un marco para el establecimiento de requisitos de diseño ecológico aplicables a los productos relacionados con la energía, Directiva 2011/65/UE en la versión actual sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos, y porta el marcado CE correspondiente.

Información adicional

Este producto tiene asignado un número de modelo reglamentario en consonancia con los aspectos normativos del diseño. El número de modelo reglamentario es el principal identificador del producto en la documentación reglamentaria y en los informes de ensayo. No se debería confundir este número con el nombre comercial ni con los números comerciales del producto. Cualquier producto que lleve este número de modelo reglamentario que no lleve el marcado CE no cumplirá con todos los requisitos enumerados anteriormente y no podrá comercializarse en la UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Gerente de Regulación
HPE, Houston Product Compliance Center

Contactos nacionales solo para temas normativos

UE: HPE, Postfach 0001, 1122 Wien, Austria

USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Tootja nimetus: Hewlett Packard Enterprise Company
Tootja aadress: 11445 Compaq Center Drive West, Houston, TX 77070, USA

deklareerib oma ainuvastutusel et toode:

Toote nimetus ja/või mudel: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Normatiivse mudeli number: TPS-I010
Toote variandid: Kõik

vastab järgmistele toote kohta käivatele spetsifikatsioonidele ja regulatiivsetele dokumentidele:

Ohutus	Elektromagnetilise Ühilduvuse
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Ökodisaini
Eeskiri (EÜ) 2019/424
EN 303 470 V1.1.1

Teatavate ohtlike ainete kasutamise piiramise kohta
EN 50581:2012

Käesolev toode vastab Direktiiv 2014/35/EL teatavates pingevahemikes kasutatavaid elektriseadmeid käsitlevate, Direktiiv 2014/30/EL mis käsitleb elektromagnetilise ühilduvuse, Direktiiv 2009/125/EÜ mis käsitleb raamistiku kehtestamist energiamõjuga toodete ökodisaini nõuete sätestamiseks, Direktiiv 2011/65/EL praeguses versioonis teatavate ohtlike ainete kasutamise piiramise kohta elektri- ja elektroonikaseadmetes, ja on tähistatud vastavalt CE tähisega.

Lisateave

Tootele on omistatud normatiivse mudeli number, mis vastab konstruktsiooni normatiivsetele aspektidele. Normatiivse mudeli number on normatiivsetes dokumentides ja katsetuste aruannetes toote peamiseks identifikaatoriks, seda numbrit ei tohi segamini ajada turundusnumbri või toote numbriga. Ükski seda normatiivset mudelinumbrit kandv toode, millel puudub CE-vastavusmärgis, ei vasta kõigile ülalnimetatud nõuetele ja seda ei tohi lasta ELi turule.



Houston, TX
25.05.2021

Bryan Vanalstyne, Reguleerivad Manager
HPE, Houston Product Compliance Center

Kontakt üksnes normatiivsetes küsimustes

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Vaatimustenmukaisuusvakuutus #: EU DoC TPS-I010 R1 / fi

Valmistajan nimi:
Valmistajan osoite:

Hewlett Packard Enterprise Company
11445 Compaq Center Drive West, Houston, TX 77070, USA

vakuuttaa yksinomaisella vastuullaan että tuote:

Tuotteen nimi ja/tai malli: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Lainsäädännön edellyttämä mallinumero: TPS-I010
Tuotevaihtoehtot: Kaiken

noudattavat seuraavia tuotemäärittäjiä ja määräyksiä:

Turvallisuus
EN 62368-1:2014
EN 62479:2010

Sähkömagneettista Yhteensopivuutta
EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Ekologiselle suunnittelulle
Asetus (EY) 2019/424
EN 303 470 V1.1.1

Tiettyjen vaarallisten aineiden käytön rajoittamisesta
EN 50581:2012

Tuote noudattaa täten Direktiivi 2014/35/EU sähkölaitteita tietyllä jännitealueella koskevan, Direktiivi 2014/30/EU sähkömagneettista yhteensopivuutta koskevan, Direktiivi 2009/125/EY energiaan liittyvien tuotteiden ekologiselle suunnittelulle asetettavien vaatimusten puitteista, Direktiivi 2011/65/EU nykyisessä versiossa tiettyjen vaarallisten aineiden käytön rajoittamisesta sähkö- ja elektroniikkalaitteissa, vaatimuksia, ja näin ollen sillä on CE merkintä.

Lisätietoja

Tälle tuotteelle on osoitettu lainsäädännön edellyttämä mallinumero, joka pysyy samana mallin lainsäädännöllisten näkökulmien mukaisesti. Lainsäädännön edellyttämä mallinumero on tuotteen päätunniste lainsäädännöllisissä asiakirjoissa ja testiraporteissa, ja tätä numeroa ei saa sekoittaa markkinointinimeen tai tuotenumeroihin. Tuotteet, joissa on tämä lakisääteinen mallinumero, joissa ei ole CE-merkintää, eivät täytä kaikkia edellä lueteltuja vaatimuksia, eikä niitä saa saattaa EU: n markkinoille.



Houston, TX
25.05.2021

Bryan Vanalstyne, Sääntelypäällikkö
HPE, Houston Product Compliance Center

Paikallinen yhteyshenkilö vain lainsäädännöllisille aiheille

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nom du fabricant: Hewlett Packard Enterprise Company
Adresse du fabricant: 11445 Compaq Center Drive West, Houston, TX 77070, USA

déclare sous sa seule responsabilité que le produit:

Nom du produit et/ou modèle: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Numéro de modèle de réglementation: TPS-I010
Options de produit: Tout

est conforme aux réglementations et spécifications de produit suivantes:

Sécurité	Compatibilité électromagnétique
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

D'écoconception
Règlement (UE) 2019/424
EN 303 470 V1.1.1

Limitation de l'utilisation de certaines substances dangereuses
EN 50581:2012

Le présent produit satisfait aux exigences de la Directive 2014/35/EU relatives au matériel électrique destiné à être employé dans certaines limites de tension, Directive 2014/30/EU concernant la compatibilité électromagnétique, Directive 2009/125/CE établissant un cadre pour la fixation d'exigences en matière d'écoconception applicables aux produits liés à l'énergie, Directive 2011/65/EU dans la version actuelle relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques, et arbore la marque CE en conséquence.

Renseignements complémentaires

Un numéro de modèle de réglementation, qui demeure avec les aspects réglementaires de conception, est attribué à ce produit. Le numéro de modèle de réglementation est le principal élément d'identification du produit dans la documentation sur la documentation réglementaire et les rapports d'essai, ce numéro ne doit pas être confondu avec le nom commercial ou les numéros de produit. Tout produit portant ce numéro de modèle réglementaire qui ne porte pas le marquage CE pourrait ne pas être conforme à toutes les exigences énumérées ci-dessus et ne pas être mis sur le marché de l'UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Responsable de la réglementation
HPE, Houston Product Compliance Center

Contact pour les sujets de réglementation uniquement

UE: HPE, Postfach 0001, 1122 Wien, Austria
USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Naziv proizvođača: Hewlett Packard Enterprise Company
Adresa proizvođača: 11445 Compaq Center Drive West, Houston, TX 77070, USA

izjavljujem pod punom odgovornošću da je proizvod:

Naziv i/ili model proizvoda: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Regulatorna oznaka modela: TPS-I010
Opcije proizvoda: Sav

u skladu sa sljedećim Specifikacijama proizvoda i propisima:

Osigurač	Elektromagnetsku Kompatibilnost
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Ekološki dizajn
Uredba (EU) 2019/424
EN 303 470 V1.1.1

Ograničenje uporabe određenih opasnih tvari
EN 50581:2012

Navedeni proizvod u skladu je sa zahtjevima Direktiva 2014/35/EU u odnosu na električnu opremu namijenjenu za uporabu unutar određenih naponskih granica, Direktiva 2014/30/EU u odnosu na elektromagnetsku kompatibilnost, Direktiva 2009/125/EZ o uspostavi okvira za utvrđivanje zahtjeva za ekološki dizajn proizvoda koji koriste energiju, Direktiva 2011/65/EU u trenutačnoj verziji o ograničenju uporabe određenih opasnih tvari u električnoj i elektroničkoj opremi, i sukladno tome sadrži oznaku CE.

Dodatni podaci

Ovom proizvodu dodijeljena je Regulatorna oznaka modela, koja je u skladu s regulatornim aspektima konstrukcije proizvoda. Regulatorna oznaka modela glavna je identifikacijska oznaka proizvoda u regulatornoj dokumentaciji i izvještajima o ispitivanju i tu se oznaku ne smije zabunom zamijeniti za tržišno ime ili brojeve proizvoda. Bilo koji proizvod koji nosi ovaj regulatorni modelni broj, koji ne nosi CE oznaku, možda neće biti u skladu sa svim gore navedenim zahtjevima i možda se neće plasirati na tržište EU.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulatorni menadžer
HPE, Houston Product Compliance Center

Lokalni podaci za kontakt isključivo za regulatorna pitanja

EU: HPE, Postfach 0001, 1122 Wien, Austria
SAD: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Gyártó neve: Hewlett Packard Enterprise Company
Gyártó címe: 11445 Compaq Center Drive West, Houston, TX 77070, USA

teljes felelősséggel kijelenti hogy az alábbi termék:

Termék neve és/vagy modellje: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Hatósági típusszám: TPS-I010
Termékopciók: Minden

megfelel az alábbi termékspecifikációknak és előírásoknak:

Biztonság	Elektromágneses Összeférhetőségre
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Környezetbarát tervezésére

2019/424/EK rendelet

EN 303 470 V1.1.1

Korlátozásáról egyes veszélyes anyagok való alkalmazásának

EN 50581:2012

A termék a jelen nyilatkozat szerint megfelel a 2014/35/EU irányelve elektromos berendezésekre a meghatározott feszültséghatáron belüli használatra tervezett vonatkozó, 2014/30/EU irányelve az elektromágneses összeférhetőségre vonatkozó, 2009/125/EK irányelve az energiával kapcsolatos termékek környezetbarát tervezésére vonatkozó követelmények megállapítási kereteinek létrehozásáról, 2011/65/EU a jelenlegi verzióban irányelve egyes veszélyes anyagok elektromos és elektronikus berendezésekben való alkalmazásának korlátozásáról, irányelv követelményeinek és ennek alapján található rajta a jelölés.

További információk

A termékhez meghatározott hatósági típusszám a kivitel szabályozási szempontjaihoz kapcsolódik. A hatósági típusszám szerepel a hatósági dokumentumokban és vizsgálati jelentésekben a termék fő azonosítójaként. Nem összetévesztendő a piaci névvel vagy a termék azonosítószámaival. Azon termékek melyek hordozzák ezen Hatósági típusszámot de nem rendelkeznek CE jelöléssel, nem feltétlenül felelnek meg minden fentebb felsorolt követelménynek és nem minden esetben forgalmazhatók az Európai Unió területén.



Houston, TX
25.05.2021

Bryan Vanalstyne, Szabályozási Menedzser
HPE, Houston Product Compliance Center

Helyi elérhetőség hatósági témákhoz

EU: HPE, Postfach 0001, 1122 Wien, Austria

US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nome del fabbricante: Hewlett Packard Enterprise Company
Indirizzo del fabbricante: 11445 Compaq Center Drive West, Houston, TX 77070, USA

dichiara sotto la propria esclusiva responsabilità che il prodotto:

Nome del prodotto e/o modello: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Numero di matricola: TPS-I010
Opzioni del prodotto: Tutti

è conforme alle seguenti Specifiche del prodotto e ai seguenti regolamenti:

Sicurezza

EN 62368-1:2014
EN 62479:2010

Compatibilità Elettromagnetica

EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Ecocompatibile

Regolamento (CE) 2019/424

EN 303 470 V1.1.1

Restrizione dell'uso di determinate sostanze pericolose

EN 50581:2012

Il prodotto è conforme ai requisiti della Direttiva 2014/35/UE relative al materiale elettrico destinato ad essere adoperato entro taluni limiti di tensione, Direttiva 2014/30/UE relative alla compatibilità elettromagnetica, Direttiva 2009/125/CE relativa all'istituzione di un quadro per l'elaborazione di specifiche per la progettazione ecocompatibile dei prodotti connessi all'energia, Direttiva 2011/65/UE nella versione attuale sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche, e pertanto reca il marchio CE.

Informazioni aggiuntive

A questo prodotto viene assegnato un numero di matricola secondo gli aspetti normativi della progettazione. Il numero di matricola normativo è il codice principale di identificazione del prodotto nella documentazione prevista dalla normativa e nei verbali di prova, questo numero non deve essere confuso con il nome commerciale o con il codice articolo del prodotto. Qualsiasi prodotto con questo numero di modello normativo che non reca la marcatura CE non sarà conforme a tutti i requisiti sopra elencati e non potrà essere immesso sul mercato dell'UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulatory Responsabile
HPE, Houston Product Compliance Center

Contatti solo per gli aspetti normativi

UE: HPE, Postfach 0001, 1122 Wien, Austria

USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Gamintojo pavadinimas: Hewlett Packard Enterprise Company
Gamintojo adresas: 11445 Compaq Center Drive West, Houston, TX 77070, USA

Atsakingai pareiškia kad produktas:

Produkto pavadinimas ir / ar modelis: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Reglamentinis modelio numeris: TPS-I010
Produkto parinktys: Visiškai

atitinka tokias produkto specifikacijas ir reglamentus:

Saugumas	Elektromagnetiniu Suderinamumu
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

**Ekologinio projektavimo
Reglamentas (ES) 2019/424**
EN 303 470 V1.1.1

apribojimas naudojimo dėl tam tikrų pavojingų medžiagų
EN 50581:2012

Produktas atitinka Žemos įtampos direktyvos Direktyva 2014/35/ES susijusių su elektrotechniniais gaminiais, skirtais naudoti tam tikrose įtampos ribose, suderinimo, Direktyva 2014/30/ES susijusių su elektromagnetiniu suderinamumu, Direktyva 2009/125/EB nustatanti ekologinio projektavimo reikalavimų su energija susijusiems gaminiams nustatymo sistemą, Direktyva 2011/65/ES dabartinėje versijoje dėl tam tikrų pavojingų medžiagų naudojimo elektros ir elektroninėje įrangoje apribojimo, reikalavimus ir turi atitinkamą CE ženklą.

Papildoma informacija

Šiam produktui yra priskirtas Reglamentinis modelio numeris, kuris priklauso nuo projekto reglamentavimo aspektų. Reglamentinis numeris yra pagrindinis produkto identifikatorius reglamentavimo dokumentuose ir bandymų ataskaitose, šis numeris neturėtų būti painiojamas su rinkodaros pavadinimu ar produkto numeriais. Bet kuris gaminyje, pažymėtas šiuo normatyviniu modelio numeriu, neturintis „CE“ ženklo, neatitiks visų aukščiau išvardytų reikalavimų ir negali būti pateiktas į ES rinką.



Houston, TX
25.05.2021

Bryan Vanalstyne, Reguliavimo Menedžeris
HPE, Houston Product Compliance Center

Kontaktai tik reglamentavimo klausimais

ES: HPE, Postfach 0001, 1122 Wien, Austria

JAV: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Ražotāja nosaukums:

Hewlett Packard Enterprise Company

Ražotāja adrese:

11445 Compaq Center Drive West, Houston, TX 77070, USA

kā vienīgais atbildīgais par produkta kvalitāti paziņo ka produkts:

Produkta nosaukums un/vai modelis:

HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus

Tehniskais modeļa numurs:

TPS-I010

Produkta komplektācija:

Viss

atbilst šādām produkta specifikācijām un noteikumiem:

Drošība

EN 62368-1:2014

EN 62479:2010

Elektromagnētisko Savietojamību

EN 55032:2015 Class A

EN 55035:2017/A11:2020

EN 61000-3-2:2014

EN 61000-3-3:2013

Ekodizaina

Regula (ES) 2019/424

EN 303 470 V1.1.1

Izmantošanas ierobežošanu par dažu bīstamu vielu

EN 50581:2012

Šis produkts atbilst šādu tiesību aktu prasībām: Direktīva 2014/35/ES saskaņošanu attiecībā uz elektroiekārtām, kas paredzētas lietošanai noteiktās sprieguma robežās, Direktīva 2014/30/ES kas attiecas uz elektromagnētisko savietojamību, Direktīva 2009/125/EK ar ko izveido sistēmu, lai noteiktu ekodizaina prasības ar enerģiju saistītiem ražojumiem, Direktīva 2011/65/ES pašreizējā versijā par dažu bīstamu vielu izmantošanas ierobežošanu elektriskās un elektroniskās iekārtās, un tam ir atbilstošs CE marķējums.

Papildinformācija

Šim produktam ir piešķirts tehniskais modeļa numurs, kas norāda uz produkta dizaina normatīvajiem aspektiem. Tehniskais modeļa numurs ir galvenais produkta identifikators normatīvajos dokumentos un testēšanas ziņojumos. Šo numuru nedrīkst sajaukt ar produkta tirdzniecības nosaukumu vai numuru. Jebkurš ražojums ar šo normatīvā modeļa numuru, kam nav CE marķējuma, neatbilst visām iepriekš uzskaitītajām prasībām, un to nedrīkst laist ES tirgū.



Houston, TX
25.05.2021

Bryan Vanalstyne, Reglamentējošais vadītājs
HPE, Houston Product Compliance Center

Vietējo pārstāvniecību kontaktinformācija tikai jautājumiem par normatīvajiem produkta aspektiem

ES: HPE, Postfach 0001, 1122 Wien, Austria

ASV: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Isem il-manifattur: Hewlett Packard Enterprise Company
Indirizz tal-manifattur: 11445 Compaq Center Drive West, Houston, TX 77070, USA

jiddikjaraw taht ir-responsabbiltà unika tagħhom li l-prodott:

Isem il-prodott u/jew mudell: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Numru tal-Mudell Regulatorju: TPS-I010
Għażliet tal-prodott: Kull

jikkonforma mal-ispeċifikazzjonijiet u r-regolamenti li ġejjin:

Sigurtà	Kompatibilità Elettromanjetika
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Għall-ekodisinn
Regolament (KE) 2019/424
EN 303 470 V1.1.1

Restrizzjoni tal-użu ta' ċerti sustanzi perikolużi
EN 50581:2012

Dan il-prodott jikkonforma mar-rekwiżiti tad- Direttiva 2014/35/UE dwar mat-tagħmir elettriku ddisinjat għall-użu fi hdan ċerti limiti tal-voltaġġ, Direttiva 2014/30/UE x'jaqsmu mal-kompatibilità elettromanjetika, Direttiva 2009/125/KE li tistabbilixxi qafas għall-iffissar ta' rekwiżiti għall-ekodisinn għal prodotti relatati mal-enerġija, Direttiva 2011/65/UE fil-verżjoni kurrenti dwar ir-restrizzjoni tal-użu ta' ċerti sustanzi perikolużi fit-tagħmir elettriku u elettroniku, u jgħorr il-marka korrispondenti CE.

Aktar informazzjoni

Dan il-prodott għandu Numru tal-Mudell Regulatorju li jinżamm mal-aspetti regulatorji tad-disinn. In-Numru tal-Mudell Regulatorju huwa l-identifikatur prinċipali fid-dokumentazzjoni regulatorja u r-rapporti tat-testijiet. Dan in-numru m'għandux jiġi konfuż mal-isem kummerċjali jew in-numri tal-prodott. Kull prodott li jkollu dan in-Numru tal-Mudell Regulatorju li ma jgħorr il-marka CE mhux se jikkonforma mar-rekwiżiti kollha elenkati hawn fuq u ma jistax jitqiegħed fis-suq tal-UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Maniġer Regulatorju
HPE, Houston Product Compliance Center

Kuntatt għal suġġetti regulatorji biss

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Naam producent: Hewlett Packard Enterprise Company
Adres producent: 11445 Compaq Center Drive West, Houston, TX 77070, USA

verklaart onder haar eigen verantwoordelijkheid dat het product:

Productnaam en/of model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Wettelijk modelnummer: TPS-I010
Productopties: Alle

voldoet aan de volgende productspecificaties en reguleringen:

Veiligheid

EN 62368-1:2014
EN 62479:2010

Elektromagnetische Compatibiliteit

EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Ecologisch ontwerp

Verordening (EU) 2019/424

EN 303 470 V1.1.1

Beperking van het gebruik van bepaalde gevaarlijke stoffen

EN 50581:2012

Het product voldoet hierbij aan de vereisten van Richtlijn 2014/35/EU inzake elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen, Richtlijn 2014/30/EU inzake elektromagnetische compatibiliteit, Richtlijn 2009/125/EG betreffende de totstandbrenging van een kader voor het vaststellen van eisen inzake ecologisch ontwerp voor energiegerelateerde producten, Richtlijn 2011/65/EU in de huidige versie betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur, en is voorzien van het bijbehorende keurmerk.

Aanvullende informatie

Aan dit product is een wettelijk modelnummer toegekend dat de wettelijke aspecten van het ontwerp betreft. Het wettelijk modelnummer is de belangrijkste identificatie van het product in de wettelijke documentatie en testberichten. Dit nummer mag niet worden verwisseld met de marketingnaam of de productnummers. Elk product met dit wettelijk modelnummer dat niet is voorzien van de CE-markering, voldoet niet aan alle hierboven genoemde vereisten en mag niet op de EU-markt worden gebracht.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulerende Manager
HPE, Houston Product Compliance Center

Contact, uitsluitend voor wettelijke kwesties

EU: HPE, Postfach 0001, 1122 Wien, Austria

US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nazwa producenta: Hewlett Packard Enterprise Company
Adres producenta: 11445 Compaq Center Drive West, Houston, TX 77070, USA

deklaruje z pełną odpowiedzialnością że produkt:

Nazwa produktu i/lub model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Numer modelu regulacyjnego: TPS-I010
Opcje produktu: Wszyscy

jest dostosowany do następujących specyfikacji produktu i regulacji:

Bezpieczeństwo
EN 62368-1:2014
EN 62479:2010

Kompatybilności Elektromagnetycznej
EN 55032:2015 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Ekoprojektu
Nr regulacji (WE) 2019/424
EN 303 470 V1.1.1

Ograniczenia stosowania niektórych niebezpiecznych substancji
EN 50581:2012

Niniejszy produkt jest zgodny z wymaganiami dyrektywy Dyrektywa 2014/35/WE odnoszących się do sprzętu elektrycznego przewidzianego do stosowania w określonych granicach napięcia, Dyrektywa 2014/30/WE odnoszących się do kompatybilności elektromagnetycznej, Dyrektywa 2009/125/WE ustanawiająca ogólne zasady ustalania wymogów dotyczących ekoprojektu dla produktów związanych z energią, Dyrektywa 2011/65/WE w aktualnej wersji w sprawie ograniczenia stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym, posiada odpowiednie oznaczenie CE.

Dodatkowe informacje

Produkt ma przypisany numer modelu regulacyjnego, który wiąże się z aspektami regulacyjnymi jego wzornictwa. Numer modelu regulacyjnego jest głównym identyfikatorem produktu w dokumentacji regulacyjnej i raportach z testów, nie wolno mylić tego numeru z nazwą marketingową lub numerami produktu. Każdy produkt posiadający niniejszy numer modelu regulacyjnego, który nie posiada oznakowania CE, nie spełnia wszystkich wymogów wymienionych powyżej i nie może zostać wprowadzony do obrotu w UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Menedżer regulacyjny
HPE, Houston Product Compliance Center

Lokalny adres kontaktowy – tylko w sprawach regulacyjnych

UE: HPE, Postfach 0001, 1122 Wien, Austria
USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nome do fabricante: Hewlett Packard Enterprise Company
Endereço do fabricante: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declara sob sua exclusiva responsabilidade que o produto:

Nome e/ou Modelo do Produto: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Número de Modelo Regulamentar: TPS-I010
Opções de produto: Todo

Em conformidade com as seguintes especificações de produto e diretivas:

Segurança	Compatibilidade Electromagnética
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Concepção ecológica
Regulamento (CE) 2019/424
EN 303 470 V1.1.1

Restrição do uso de determinadas substâncias perigosas
EN 50581:2012

O produto está em conformidade com os requisitos da Directiva 2014/35/UE no domínio do material eléctrico destinado a ser utilizado dentro de certos limites de tensão, Directiva 2014/30/UE respeitantes à compatibilidade electromagnética, Directiva 2009/125/CE relativa à criação de um quadro para definir os requisitos de concepção ecológica dos produtos relacionados com o consumo de energia, Directiva 2011/65/UE na versão atual relativa à restrição do uso de determinadas substâncias perigosas em equipamentos eléctricos e electrónicos, , bem como detém a respetiva marcação CE.

Informação adicional

O presente produto detém um Número de Modelo Regulamentar, correspondente aos aspetos regulamentares do design. O Número de Modelo regulamentar é o principal identificador do produto presente na documentação regulamentar e nos relatórios de teste; este número não deve ser confundido com o nome de marketing ou os números do produto. Qualquer produto que possua este Número de modelo regulamentar que não possua a marcação CE não cumprirá todos os requisitos listados acima e não poderá ser colocado no mercado da UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Gerente de regulamentação
HPE, Houston Product Compliance Center

Contato apenas para assuntos regulamentares

UE: HPE, Postfach 0001, 1122 Wien, Austria
EUA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Numele producătorului: Hewlett Packard Enterprise Company
Adresa producătorului: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declară pe proprie răspundere că produsul:

Nume produs și/sau Model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Cod de reglementare model: TPS-I010
Opțiuni produs: Toate

este conform următoarelor specificații și reglementări ale produsului:

Siguranță	Compatibilitatea Electromagnetică
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Proiectare ecologică
Reglementarea (EU) 2019/424
EN 303 470 V1.1.1

Restricțiile de utilizare a anumitor substanțe periculoase în echipamentele
EN 50581:2012

Produsul se conformează cerințelor Directiva 2014/35/EU privind echipamentele electrice destinate utilizării în cadrul unor anumite limite de tensiune, Directiva 2014/30/EU cu privire la compatibilitatea electromagnetică, Directiva 2009/125/CE de instituire a unui cadru pentru stabilirea cerințelor în materie de proiectare ecologică aplicabile produselor cu impact energetic, Directiva 2011/65/EU în versiunea curentă privind restricțiile de utilizare a anumitor substanțe periculoase în echipamentele electrice și electronice, E și poartă în mod corespunzător marca .

Informații adiționale

Acestui produs îi este atribuit un cod de reglementare al modelului care se referă la aspectele de reglementare ale designului. Codul de reglementare al produsului este principalul cod de identificare al produsului în documentele de reglementare și rapoartele de testare, acest cod nu trebuie confundat cu denumirea de marketing sau codurile produsului. Orice produs care poartă acest număr de model de reglementare care nu poartă marcajul CE nu va respecta toate cerințele enumerate mai sus și nu poate fi introdus pe piața UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Manager de reglementare
HPE, Houston Product Compliance Center

Date de contact privind numai probleme de reglementare

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Názov výrobcu: Hewlett Packard Enterprise Company
Adresa výrobcu: 11445 Compaq Center Drive West, Houston, TX 77070, USA

na svoju výlučnú zodpovednosť prehlasuje že výrobok:

Názov výrobku a/alebo model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Regulačné číslo modelu: TPS-I010
Možnosti výrobku: Celý

je v súlade s nasledujúcou špecializáciou výrokov a nariadeniami:

Bezpečnosť	Elektromagnetickú Kompatibilitu
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Okoljsko primerno
Nariadenie (ES) 2019/424
EN 303 470 V1.1.1

Obmedzení používania určitých nebezpečných látok
EN 50581:2012

Tento výrobok spĺňa požiadavky Smernica 2014/35/EÚ týkajúcich sa elektrického zariadenia určeného na používanie v rámci určitých limitov napätia, Smernica 2014/30/EÚ vzťahujúcich sa na elektromagnetickú kompatibilitu, Smernica 2009/125/ES o vytvorení rámca na stanovenie požiadaviek na ekodizajn energeticky významných výrobkov, Smernica 2011/65/EÚ v aktuálnej verzii o obmedzení používania určitých nebezpečných látok v elektrických a elektronických zariadeniach, a je správne CE označený.

Ďalšie informácie

Výrobok má pridelené regulačné číslo modelu, ktorý je v súlade s regulačnými aspektami dizajnu. Regulačné číslo modelu je hlavný identifikátor výrobku v regulačnej dokumentácii a v protokole o skúške a nemožno ho zamieňať s obchodným názvom alebo číslom výrobku. Akýkoľvek výrobok s týmto regulačným číslom modelu, ktorý nie je označený značkou CE, nebude spĺňať všetky vyššie uvedené požiadavky a nesmie sa uviesť na trh EÚ.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulačný manažér
HPE, Houston Product Compliance Center

Kontakt výhradne pre regulačné záležitosti

EU: HPE, Postfach 0001, 1122 Wien, Austria
USA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Ime proizvajalca: Hewlett Packard Enterprise Company
Naslov proizvajalca: 11445 Compaq Center Drive West, Houston, TX 77070, USA

Izjavlja z vso odgovornostjo da je izdelek:

Ime izdelka in/ali model: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Odobritvena številka modela: TPS-I010
Možnosti izdelka: Vse

ustreza sledečim specifikacijam izdelka ter predpisom:

Varnost	Elektromagnetno Združljivostjo
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Okoljsko primerno
Uredba (EU) 2019/424
EN 303 470 V1.1.1

Omejevanje uporabe nekaterih nevarnih snovi
EN 50581:2012

Proizvod je skladen z zahtevami Direktiva 2014/35/EU zvezi z električno opremo, konstruirano za uporabo znotraj določenih napetostnih mej, Direktiva 2014/30/EU v zvezi z elektromagnetno združljivostjo, Direktiva 2009/125/ES o vzpostavitvi okvira za določanje zahtev za okoljsko primerno zasnovane izdelke, povezanih z energijo, Direktiva 2011/65/EU v trenutni različici o omejevanju uporabe nekaterih nevarnih snovi v električni in elektronski opremi, in temu primerno nosi oznako CE.

Dodatne informacije

Temu izdelku je dodeljena odobritvena številka modela, ki izhaja iz regulativnega stališča oblikovanja. Odobritvena številka modela je glavni identifikator izdelka v dokumentaciji predpisov in testnih poročilih, te številke ne gre zamešati z marketinškim imenom ali številkami izdelka. Vsak izdelek z to regulatno modelno številko, ki ne vsebuje CE oznako, verjetno ni v skladu z gor naštetimi zahtevami, ter kot tak morda ne bo dan na trg Evropske unije.



Houston, TX
25.05.2021

Bryan Vanalstyne, Regulatorni vodja
HPE, Houston Product Compliance Center

Stik – izključno za zadeve glede predpisov

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Tillverkarens namn: Hewlett Packard Enterprise Company
Tillverkarens adress: 11445 Compaq Center Drive West, Houston, TX 77070, USA

deklarerar under eget ansvar att produkten:

Produktnamn och/eller modell: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Föreskriftenligt modellnummer: TPS-I010
Produktalternativ: Alla

överensstämmer med följande produktspecifikationer och föreskrifter:

Säkerhet	Elektromagnetisk Kompatibilitet
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Ekodesign
Riktlinje (EU) 2019/424
EN 303 470 V1.1.1

Begränsning av användning av vissa farliga ämnen
EN 50581:2012

Produkten överensstämmer med kraven i Direktiv 2014/35/EU lagstiftning om elektrisk utrustning avsedd för användning inom vissa spänningsgränser, Direktiv 2014/30/EU lagstiftning om elektromagnetisk kompatibilitet, Direktiv 2009/125/EG om upprättande av en ram för att fastställa krav på ekodesign för energirelaterade produkter, Direktiv 2011/65/EU i den nuvarande versionen om begränsning av användning av vissa farliga ämnen i elektrisk och elektronisk utrustning, och bär CE markeringen i enlighet därmed.

Tilläggsinformation

Den här produkten har tilldelats ett föreskriftsenligt modellnummer som följer de föreskriftsenliga aspekterna av konstruktionen. Det föreskriftsenliga modellnumret är en identifikator för huvudprodukten i föreskriftsenlig dokumentation och testrapporter, detta nummer skall inte blandas samman med marknadsföringsnamnet eller produktnumret. Alla produkter som har detta regleringsmodellnummer som inte har CE-märkning kommer inte att uppfylla alla krav som anges ovan och får inte släppas ut på EU-marknaden.



Houston, TX
25.05.2021

Bryan Vanalstyne, Reglerande chef
HPE, Houston Product Compliance Center

Kontakt, endast för föreskriftsenliga ärenden

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>

Nome do fabricante: Hewlett Packard Enterprise Company
Endereço do fabricante: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declara sob sua exclusiva responsabilidade que o produto:

Nome e/ou Modelo do Produto: HPE ProLiant DL360 Gen10 Plus, HPE ProLiant DX360 Gen10 Plus
Número de Modelo Regulamentar: TPS-I010
Opções de produto: Todo

Em conformidade com as seguintes especificações de produto e diretivas:

Segurança	Compatibilidade Electromagnética
EN 62368-1:2014	EN 55032:2015 Class A
EN 62479:2010	EN 55035:2017/A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013

Concepção ecológica
Regulamento (CE) 2019/424
EN 303 470 V1.1.1

Restrição do uso de determinadas substâncias perigosas
EN 50581:2012

O produto está em conformidade com os requisitos da Directiva 2014/35/UE no domínio do material eléctrico destinado a ser utilizado dentro de certos limites de tensão, Directiva 2014/30/UE respeitantes à compatibilidade electromagnética, Directiva 2009/125/CE relativa à criação de um quadro para definir os requisitos de concepção ecológica dos produtos relacionados com o consumo de energia, Directiva 2011/65/UE na versão atual relativa à restrição do uso de determinadas substâncias perigosas em equipamentos eléctricos e electrónicos, , bem como detém a respetiva marcação CE.

Informação adicional

O presente produto detém um Número de Modelo Regulamentar, correspondente aos aspetos regulamentares do design. O Número de Modelo regulamentar é o principal identificador do produto presente na documentação regulamentar e nos relatórios de teste; este número não deve ser confundido com o nome de marketing ou os números do produto. Qualquer produto que possua este Número de modelo regulamentar que não possua a marcação CE não cumprirá todos os requisitos listados acima e não poderá ser colocado no mercado da UE.



Houston, TX
25.05.2021

Bryan Vanalstyne, Gerente de regulamentação
HPE, Houston Product Compliance Center

Contato apenas para assuntos regulamentares

UE: HPE, Postfach 0001, 1122 Wien, Austria
EUA: Hewlett Packard Enterprise, 11445 Compaq Center West Drive, Houston, Texas, 77070, United States of America (U.S.), 844-806-3425

<http://www.hpe.com/eu/certificates>



LAC WELCOME KIT

EDIÇÃO TRIMESTRAL: DEZEMBRO 2021

CONTEÚDO



- 03** Account Services
- 04** Cobertura Geográfica
- 05** Níveis de Serviço
- 06** Reportar Incidente
- 07** Opções para abertura de casos
- 11** Conheça HPE Chama você!
- 12** Suporte Adicional
- 13** Dúvidas e/ou Consultas

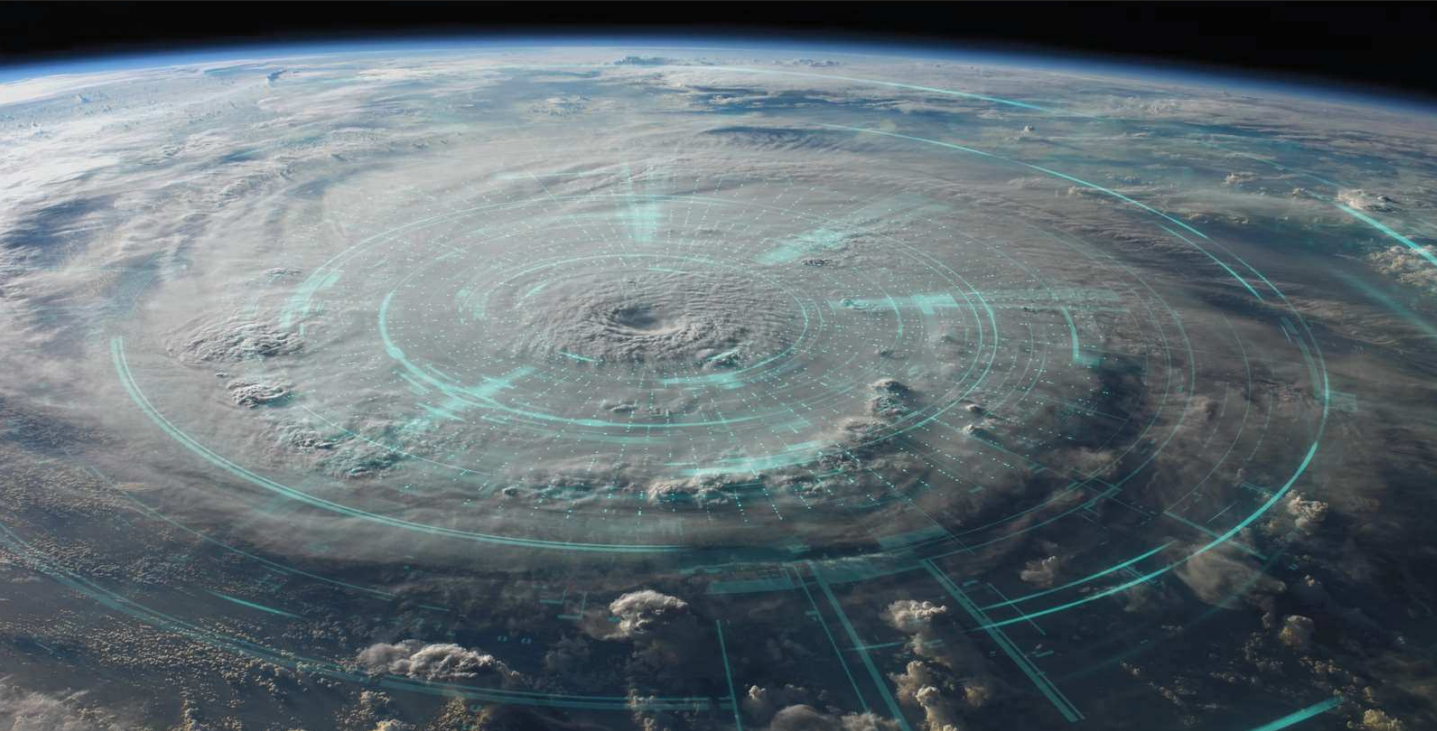
ACCOUNT SERVICES

Hewlett Packard Enterprise (HPE) é uma das maiores organizações líderes em soluções e serviços na indústria de Tecnologia da Informação a nível mundial.

Os serviços de suporte que oferecemos estão focados em ajudá-lo a utilizar a infraestrutura de data center de forma ágil e simples, permitindo que você transforme suas ideias de valor no menor tempo possível, aumentando a disponibilidade dos serviços e do seu negócio.

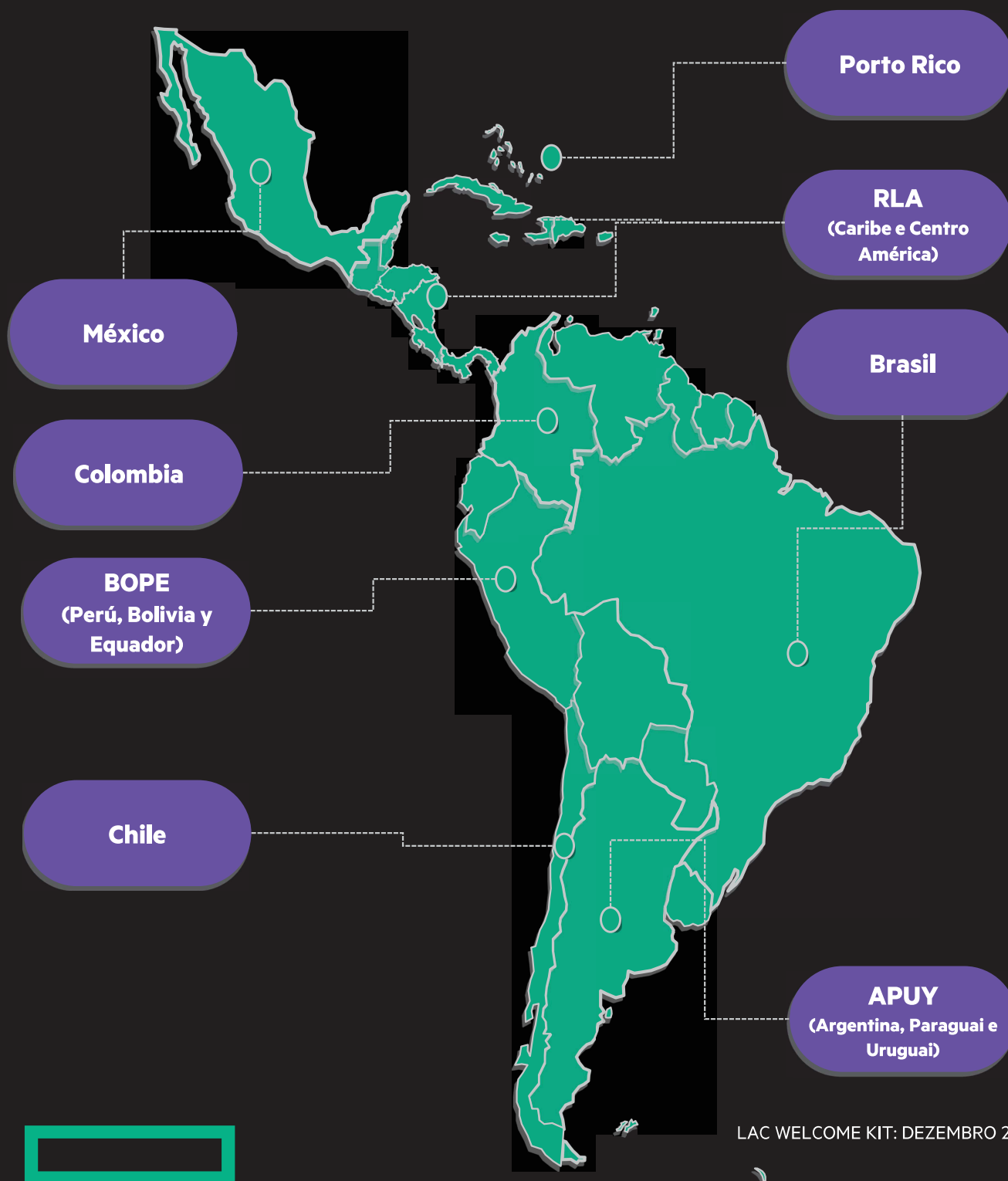
Levando em consideração o exposto, preparamos este documento, que contém as informações necessárias para que você possa acessar os Serviços de Suporte HPE quando ocorrer um incidente em sua infraestrutura ou solução, destacando a informação necessária que você deverá ter em mãos no momento de solicitar nosso suporte e se concentrar em encontrar sua solução.

Agradecemos por nos permitir formar parte de sua equipe de trabalho.



COBERTURA GEOGRÁFICA

Em **Latinoamérica**, o Serviço de Suporte da HPE cobre os seguintes países:



LAC WELCOME KIT: DEZEMBRO 2021

NÍVEIS DE SERVIÇO

A seguinte tabela mostra os diferentes alcances do Serviço de Suporte da HPE de acordo com seu contrato:

	BÁSICO (Next Business Day)	ESSENCIAL (24x7)	CRÍTICO 6CTR (Call To Repair)
Atendimento das 8h às 17h, de segunda a sexta, horário comercial (NÃO inclui feriados).	✓		
Deslocamento para o local em caso de falha de hardware confirmada (não contempla o tempo de solução)	✓	✓	
Atenção 24 horas por dia, 7 dias por semana (inclui feriados)		✓	✓
Compromisso de tempo de solução no local devido a falha de hardware.			✓
Compromisso de cobertura de até 80 km do ponto de suporte designado pela HPE			✓
Compromisso de cobertura de até 160 km do ponto de suporte designado pela HPE	✓	✓	
Para incidentes de gravidade 1 (conexão direta com um especialista do produto)		✓	✓

Para mais informações por favor consulte o **DATA SHEET** correspondente a seu produto, onde poderá encontrar em detalhes a abrangência do seu nível de serviço adquirido, bem como as responsabilidades, limitações do mesmo, entre outros pontos importantes,

<https://www.hpe.com/psnow/doc/a00108652enw>



O QUE É NECESSÁRIO PARA RELATAR UM INCIDENTE?

É necessário contar com as seguintes informações ao seu alcance:

Informações do equipamento:

- Número de série do equipamento (necessário).
- Número de produto (opcional).
- Número de contrato (sugerido).
- Número de carepack (sugerido).

Informações de sua empresa:

- Razão Social.
- Endereço onde o equipamento está localizado.
- Descrição do incidente.
- Nível de impacto em seu negócio.
- Dados de contato: nome, telefone, e-mail; caso seja necessário coordenar o atendimento no local.

Nota: A falta de algum dos dados acima mencionados pode atrasar a abertura e atendimento.

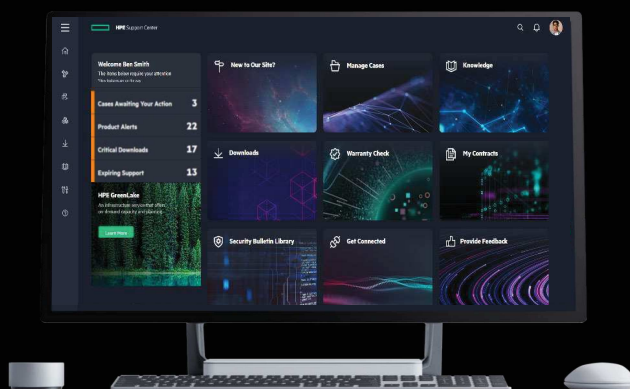


OPÇÕES PARA ABERTURA DE CASOS

1

VIRTUAL: Relate seu evento com uma experiência digital renovada do **Portal de Suporte HPE:**

Digital Customer Experience



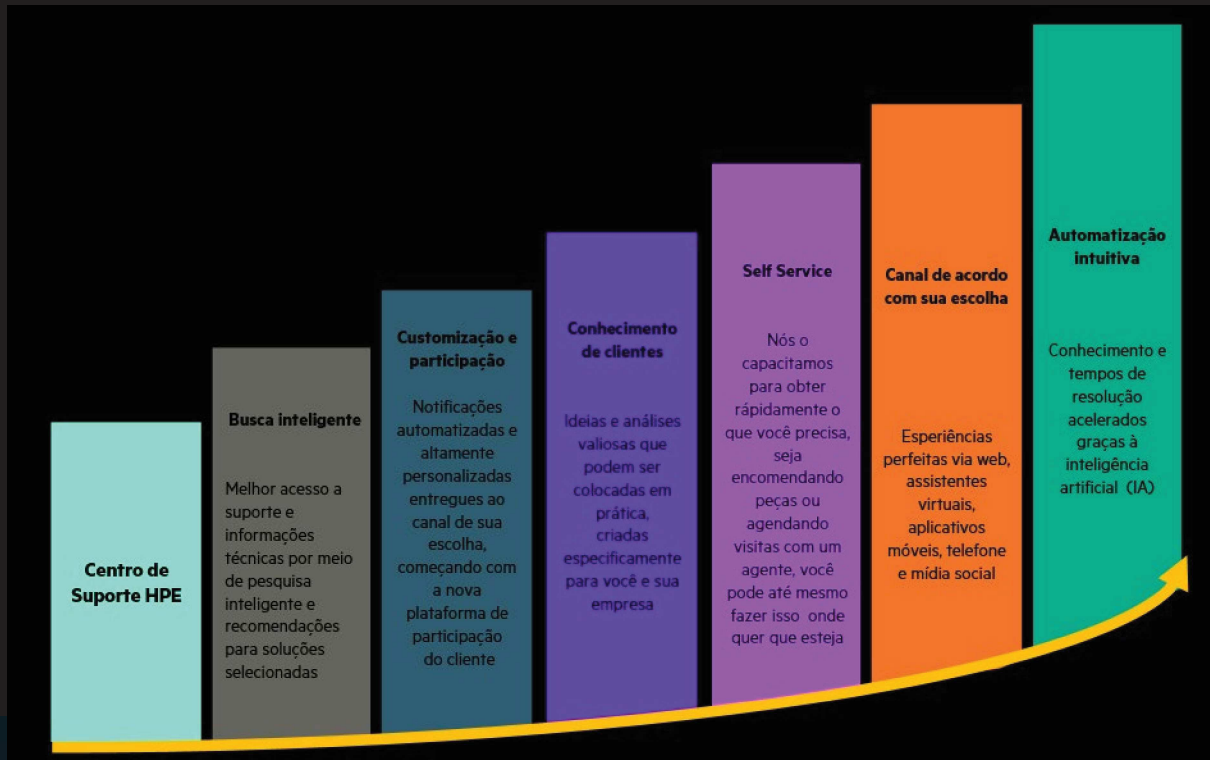
2

AUTOMÁTICA: Conecte seus equipamentos à mais avançada tecnologia para a prevenção e reporte automático de falhas de HPE InfoSight. Alternativamente, você também pode usar HPE OneView Remote Support o IRS.

3

VIA TELEFONE

VIRTUAL – DCE (DIGITAL CUSTOMER EXPERIENCE)



A primeira alternativa para relatar incidentes é nossa plataforma de transformação digital moderna e intuitiva (**Digital Customer Experience**), onde você obterá uma experiência valiosa:

- Você poderá **criar e gerenciar** seus casos de forma simplificada.
- Você terá **recomendações** para soluções de conhecimento online.
- Você poderá **anexar arquivos** facilmente.
- O novo **agente virtual** fornecerá suporte para solução de problemas e recursos de autoatendimento.
- Você também poderá verificar o **estado de seu contrato ou garantia**.
- Você terá uma **busca inteligente** melhorada.
- E muito mais.

Lembramos que você deve assegurar que seus equipamentos estejam atualizados na seção de contratos de DCE, e ter a mão toda a informação que sugerimos no início desta seção, já que será necessária para a criação do evento de serviço.

2 AUTOMÁTICA

Para o relatório automatizado de incidentes de hardware, de acordo com o equipamento adquirido, a HPE requer que você insira a ferramenta de HPE InfoSight ou habilite um console IRS, que permite monitorar com segurança sua infraestrutura existente em seu data center.



Os detalhes e requisitos para usar a ferramenta HPE INFOSIGHT podem ser encontrados nos seguintes links:

- [HPE InfoSight for Servers User Guide](#)
- [HPE InfoSight for HPE Storage User Guide](#)
- [HPE InfoSight User Guide for HPE Nimble Storage](#)
- [HPE InfoSight for HPE SimpliVity Getting Started](#)



Os detalhes e requisitos para a instalação do IRS podem ser encontrados no seguinte link:

- [Guía de instalación rápida IRS 7.10](#)

3 VIA TELEFONE



Região	País	Número telefônico	Tipo de Suporte	Horário
APUY	Argentina	0 800 444 7867	Contratos/Garantias	24x7
	Paraguai	+1 678 259 9109		
	Uruguai	000 413 598 5573		
BOPE	Bolivia e Equador	+1 678 259 9109		
	Perú	0800 53603		
Brazil	Brasil	0800 055 6405		
Chile	Chile	800 201 702		
Colombia	Colombia	01 800 5190061		
México	México	800 501 9800		

*Algumas chamadas podem ter restrições e tarifas que dependem de sua operadora de telefonia





Região	País	Número Telefônico	Tipo de Suporte	Horário
RLA	Anguilla	+1 678 259 9110 (Inglês)	Contratos/Garantias	24x7
	Aruba			
	Bahamas			
	Barbados			
	Belize			
	Bermuda			
	British Virgin Islands			
	Cayman Islands			
	Curacao			
	Dominica			
	Grenada			
	Guyana			
	Montserrat			
	Netherlands Antilles			
	St. Kitts and Nevis			
	St. Lucia			
	St. Maarten			
	St. Vincent			
	Suriname			
	Trinidad and Tobago			
	Turks & Caicos			
	Costa Rica	0800 012 2182		
	Dominican Republic	+1 678 259 9109 (Espanhol)		
	El Salvador			
	Honduras			
	Guatemala	1 800 375 0048		
	Haiti	N/A, web support only		
Jamaica	1 833 937 1956			
Nicaragua	001 800 2202553			
Panama	001 800 507 3799 011+001+ 800 507 3799			
Porto Rico	1 844 752 2843			
U.S. Virgin Islands	1 844 845 8164			

*Algumas chamadas podem ter algumas restrições e tarifas que dependem de sua operadora de telefonia

Lista atualizada de números telefônicos:

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

<https://www.hpe.com/us/en/collaterals/collateral.a00039121enw.html>



CONHEÇA A HPE Te Chama!

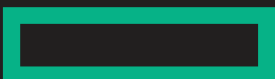
Como parte da implementação do programa de telefonia de DCE (Genesys), anunciamos uma nova forma de acessar o suporte técnico de HPE Pointnext Services.

HPE Te Chama, é mais uma opção para receber a atenção de que necessita, pode visitar a liga correspondente ao seu país apenas preenchendo um pequeno formulário..

País	HPE Contact Page
Argentina	www.hpe.com/ar/contact
Bolivia	www.hpe.com/bo/contact
Brasil	www.hpe.com/br/contact
Chile	www.hpe.com/cl/contact
Colombia	www.hpe.com/co/contact
Ecuador	www.hpe.com/ec/contact
Mexico	www.hpe.com/mx/contact
Paraguai	https://www.hpe.com/lamerica/es/contact-hpe-paraguay.html
Peru	www.hpe.com/pe/contact
Porto Rico	www.hpe.com/pr/contact
Uruguai	www.hpe.com/uy/contact

Para Nicaragua, Honduras, El Salvador, Guatemala, Costa Rica e Panamá podem usar qualquer um dos links e selecionar seu país.

Funciona a partir de qualquer dispositivo com acesso à internet: celular, tablet ou computador.



SUPORTE ADICIONAL

Suporte técnico

- HPE Nimble Storage 24x7
<https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=a00050207enw>
- Aruba <https://www.arubanetworks.com/support-services/contact-support/>
- Data Fabric/MapR
https://support.hpe.com/hpesc/public/docDisplay?docId=a00091623en_us

Atividades Proativas

- Para solicitar atividades proativas e/ou resgate de créditos, envie sua solicitação para o seguinte e-mail:
TAMsRquests@hpe.com





CUSTOMER EXPERIENCE

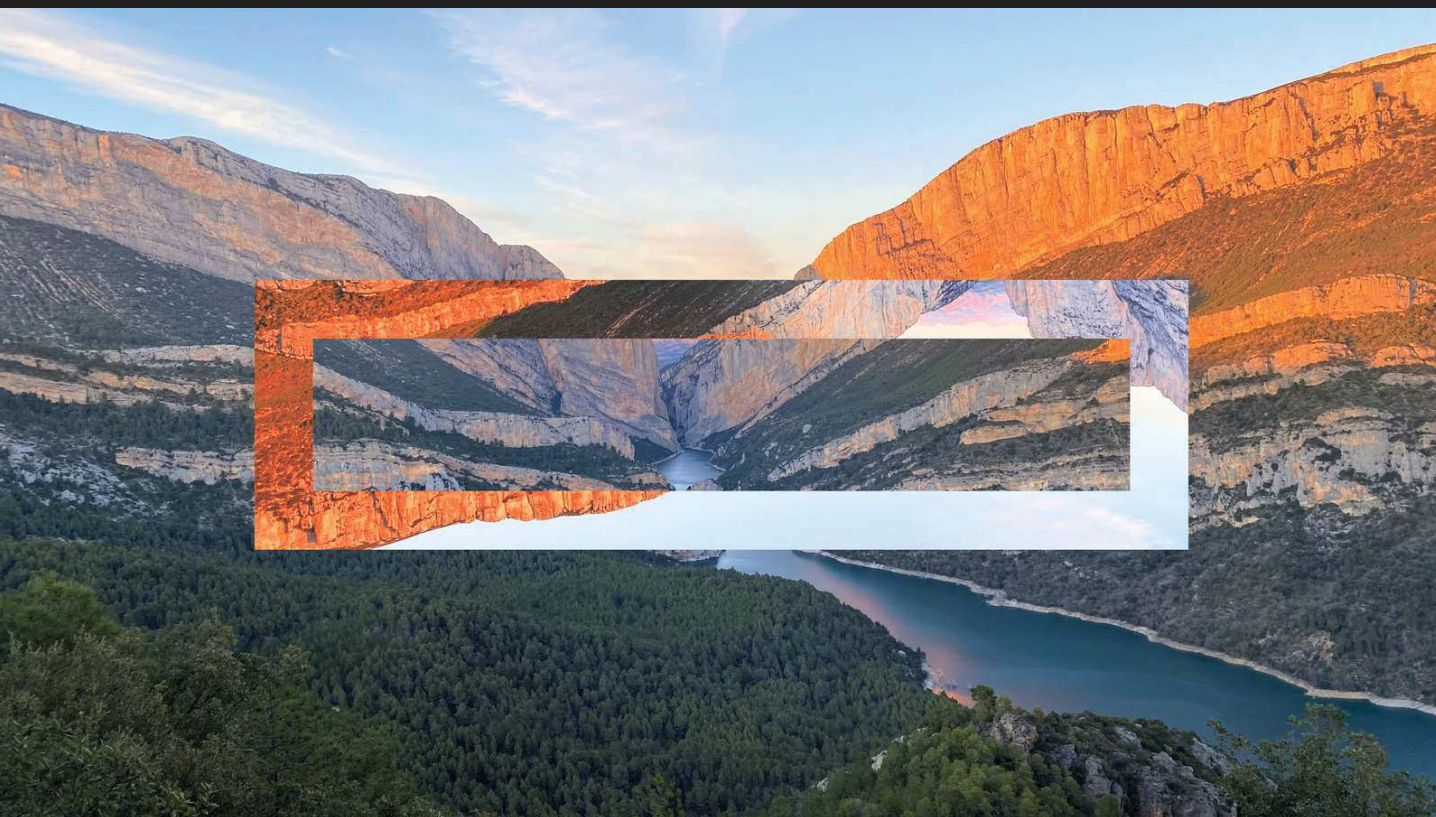
QUEREMOS SABER O QUE É VALIOSO PARA VOCÊ NA EXPERIÊNCIA DE SERVIÇO

No encerramento do seu caso de suporte, iremos convidá-lo por e-mail para responder a uma pesquisa de satisfação.

Agradecemos os minutos que você dedicará a descrever sua experiência com a HPE. O e-mail com o convite da pesquisa virá de: customer.experience@hpe.com



LAC WELCOME KIT: DEZEMBRO 2021



DÚVIDAS E/OU CONSULTAS?

Com o **objetivo** de **fornecer um melhor serviço** e para que possa expressar **algum inconveniente** durante o processo de atendimento, **status de algum caso, etc.**, colocamos à sua disposição o seguinte e-mail:

contacto-account.services.lac@hpe.com

Pedimos que você adicione as seguintes informações:

- Número de caso: Se você não tem um caso aberto, colocar N/A
- País/Cidade:
- Comentários: descrição detalhada do tipo de ajuda ou contato de que você precisa, a equipe envolvida e informações para contatá-lo



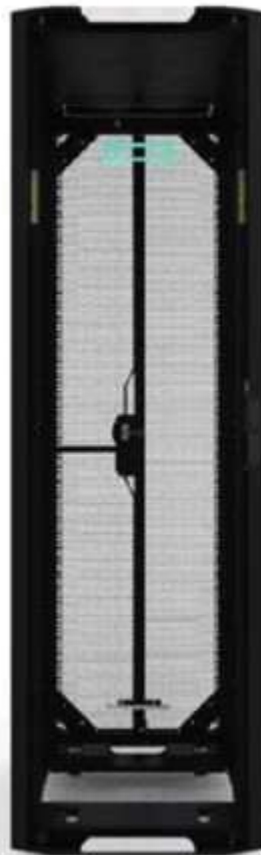
Overview

HPE G2 Enterprise Series Racks

HPE G2 Enterprise Series Racks are designed for high density IT configurations deployed in a diverse set of environments - from the data closet to the data center. Following EIA-310 specifications for 19-inch racks, G2 Enterprise Racks are designed specifically to support a wide range of HPE IT equipment (servers, storage, and networking), as well as the entire portfolio HPE Rack and Power Infrastructure solutions (PDU, UPS and KVM).

All HPE G2 Enterprise Series Racks are supported with a 10 year limited warranty that provides either repair or complete replacement of the rack. Offering this industry-leading warranty requires a highly reliable and durable design that includes features such as a fully-welded, roll-form rack design, heavy-gauge rails, and heavy-duty castors that can support a static load of up to 3000 lbs. Additionally, select shock pallet models include packaging specifically designed to support the shipment of pre-configured racks with up to 3,000 lbs. of IT equipment.

The G2 Enterprise Series Rack portfolio includes a wide range of rack models covering a variety of heights, widths, and depths. All HPE G2 rack models are supported with a large portfolio of accessories that help customize each rack to operate optimally in the user's IT environment. Rack accessories include options to support airflow management, cable management, and added rack stability.



Rack Models

HPE G2 Enterprise Series Rack Models

Review the following details to better understand the different rack models that are offered in the HPE G2 Enterprise Series rack portfolio.

Pallet Rack

Standard pallet and packaging for racks that will be configured on-site

Shock Pallet

Pallet and packaging designed to support racks that will be shipped directly to the data center fully configured

- Can support up to 3,000 lbs. of IT equipment during shipment
- Packaging includes integrated ramp to simplify rack deployment
- Must be selected when requesting HPE Factory Express Services

Network Racks

Designed to support dense Networking equipment configurations, or the integration of Networking, Server, and Storage equipment into a single industry standard 19" rack.

- Front and rear vertical EIA rails are moved back 75mm to facilitate front to rear cabling
- Include additional bristle covered cable access slots in the front and top of the rack to prevent the mixing of hot and cold air and to allow pass-through for large cable connectors and bundles

HPE Racks SKUs

600mm Wide G2 Enterprise Series Rack Models

HPE 42U 600mmx1075mm G2 Enterprise Pallet Rack	P9K37A
HPE 42U 600mmx1075mm G2 Enterprise Shock Rack	P9K38A
HPE 42U 600mmx1200mm G2 Enterprise Pallet Rack	P9K39A
HPE 42U 600mmx1200mm G2 Enterprise Shock Rack	P9K40A

800mm Wide G2 Enterprise Series Rack Models

HPE 42U 800mmx1075mm G2 Enterprise Pallet Rack	P9K41A
HPE 42U 800mmx1075mm G2 Enterprise Shock Rack	P9K42A
HPE 42U 800mmx1200mm G2 Enterprise Pallet Rack	P9K45A
HPE 42U 800mmx1200mm G2 Enterprise Shock Rack	P9K46A

600mm Wide G2 Enterprise Series Rack Models

HPE 48U 600mmx1075mm G2 Enterprise Shock Rack	P9K50A
HPE 48U 600mmx1200mm G2 Enterprise Shock Rack	P9K52A

800mm Wide G2 Enterprise Series Rack Models

HPE 48U 800mmx1200mm G2 Enterprise Shock Rack	P9K58A
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G2 Enterprise Series Network Rack Models

HPE 42U 800mmx1200mm G2 Enterprise Shock Network Rack	P9K48A
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Rackable/Useable Area				Total Area	
Model	Height	Width	Depth	Total Cabinet Area	Shipping Dimensions
P9K43A	42U	800mm	1075mm	78.98 x 44.30 x 31.34 in (200.66 x 112.52 x 79.78 cm)	85.35 x 50.87 x 43.43 in (216.79 x 129.20 x 110.31 cm)
P9K48A	42U	800mm	1200mm	78.98 x 51.19 x 31.34 in (200.66 x 130.02 x 79.78 cm)	85.35 x 57.87 x 43.43 in (216.79 x 146.99 x 110.31 cm)

Rack Models

P9K50 A	48U	600mm	1075mm	90.39 x 44.30 x 23.54 in (229.78 x 112.52 x 59.78 cm)	97.64 x 50.87 x 35.43 in (248.01 x 129.20 x 89.99 cm)
P9K51 A	48U	600mm	1200mm	90.39 x 51.19 x 23.54 in (229.78 x 130.02 x 59.78 cm)	97.64 x 57.87 x 35.43 in (248.01 x 146.99 x 89.99 cm)
P9K52 A	48U	600mm	1200mm	90.39 x 51.19 x 23.54 in (229.78 x 130.02 x 59.78 cm)	97.64 x 57.87 x 35.43 in (248.01 x 146.99 x 89.99 cm)
P9K54 A	48U	800mm	1075mm	90.39 x 44.30 x 31.34 in (229.78 x 112.52 x 79.78 cm)	97.64 x 50.87 x 43.43 in (248.01 x 129.20 x 89.99 cm)
P9K55 A	48U	800mm	1075mm	90.39 x 44.30 x 31.34 in (229.78 x 112.52 x 79.78 cm)	97.64 x 50.87 x 35.43 in (248.01 x 129.20x 89.99 cm)
P9K57 A	48U	800mm	1200mm	90.39 x 51.19 x 31.34 in (229.78 x 130.02 x 79.78 cm)	97.64 x 57.87 x 35.43 in (248.01 x 146.99 x 89.99 cm)
P9K58 A	48U	800mm	1200mm	90.39 x 51.19 x 31.34 in (229.78 x 130.02 x 79.78 cm)	97.64 x 57.87 x 43.43 in (248.01 x 146.99 x 110.31 cm)
P9K60 A	48U	800mm	1200mm	90.39 x 51.19 x 31.34 in (229.78 x 130.02 x 79.78 cm)	97.64 x 57.87 x 43.43 in (248.01 x 146.99 x 110.31 cm)

Model	Rack Height	Rack Weight (lbs)	Shipping Weight (lbs)	Static Load	Dynamic (Rolling) Load	Dynamic (Shipping) Load
P9K43A	42U	293.44 (133.10 kg)	326.50 (148.10 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K48A	42U	303.14 (137.50 kg)	522.50 (237.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K50A	48U	252.43 (114.50 kg)	443.13 (201.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K51A	48U	272.27 (123.50 kg)	304.24 (138.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K52A	48U	274.46 (124.50 kg)	480.61 (218.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K54A	48U	304.24 (138.00 kg)	509.27 (231.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K55A	48U	302.03 (137.00 kg)	335.10 (152.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K57A	48U	319.67 (145.00 kg)	540.13 (245.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K58A	48U	321.88 (146.00 kg)	542.34 (246.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K60A	48U	321.88 (146.00 kg)	542.34 (246.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)

Standard Features

What's Included With Rack?

- Hardware Kit (including key to front and rear doors)
- Support documentation

Notes: Side panels and baying kit must be purchased separately for all G2 Enterprise rack models.

Compatibility

- Designed to EIA-310 specifications for industry standard racks
 - Designed for HPE IT solutions
 - Integration with HPE rack and power infrastructure solutions
 - Includes adjustable EIA rails
-

Reliability/ Durability

- 10 year limited warranty. Hardware replacement and repair is available for ten years from date of purchase.
 - Proven frame design, heavy-gauge mounting rails, and heavy-duty casters can support up to 3000 lbs. static load and dynamic (rolling) loads.
 - Highest levels of ship-load testing to ensure a dynamic load of up to 3000 lbs. when selecting a shock pallet rack option
 - Fully-welded, roll form rack frame
 - High-strength steel side bracing
-

Usability/ Management

- Industry's widest range of enclosure sizes with rack depths of 42-inches or greater
 - Multiple 800mm wide rack models including Network rack models available
 - Includes either 2 (1075mm models) or 4 (1200mm models) integrated and adjustable full-height PDU Mounting Trays in each rack to support PDU and cable management accessories
 - 80% front-door airflow perforation
 - Removal and reversible rack canopy with pre-installed brush strips capable of supporting easy pass-through of large cables and connectors
 - Enhanced front and rear door cabling channels
 - Redesigned bottom area designed for unobstructed access to data center floor
 - Depth adjustable, side EIA mounting rails designed to support front-to-back cabling
 - Flush-mounted, locking 2-piece side panels (optional) - supports baying with side panels installed
 - Quick release front and rear doors
 - Wide array of rack accessories for airflow management, cable management, stabilization, and safety/security
 - Eyebolt support integrated into enclosure frame
 - Configuration services through HPE Factory Express
-

Safety/Security

- Industry standard lock panel on the front and rear doors capable of supporting a wide range of third-party electronic locking/security solutions
 - Flush-mounted side panels that support rack baying when installed
 - Optional electrical grounding covering frame and components
 - Single key access for front doors, rear doors, and side panels
-

Standard Features

Industry Standards Compliance

EIA	Type A cabinet per section 4.1.1
UL/CES Certification	Yes
WEEE	Yes
RoHS compliant	Yes
TAA compliant	Compliant for all rack models sold in North America

Service & 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

Service & Support

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

Related Options

Hewlett Packard Enterprise offers a full line of accessories and options that can be added to HPE Racks allowing you to customize each rack to fit your IT requirements. HPE Rack accessories include upgrades such as side panels, baying kits, cable management kits, drawers, shelving, and filler panels. To build a complete rack and power infrastructure for your IT environment, Hewlett Packard Enterprise also offers a full line of options that include power distribution units (PDU), uninterruptible power systems (UPS), and KVM (keyboard, video, mouse) consoles and switches. See HPE Rack and Power Infrastructure for more complete information at: <http://www.hpe.com/info/rackandpower>

Notes: 0D1 may appear after the above selected part numbers on yours sales order if factory integration is indicated.

Rack Baying Kits

HPE G2 Rack Baying Kit	P9L12A
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Notes: This Baying Kit is used to connect HPE G2 racks of the same U height and depth together and includes the following components: (4) 24-inch baying brackets, (4) 600mm baying brackets, and T-30 Torx screws.

HPE G2 Advanced and Enterprise Series Rack 1075mm and 1200mm Offset Baying Kit	P9L19A
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Airflow Optimization

HPE Air Flow Optimization Kit	BW930A
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Notes: The Airflow Optimization kit seals air gaps inside the rack, in between bayed racks, and the clearance from the floor to the rack to prevent hot and cold air from mixing thus optimizing the temperature at which the chilled air enters the racked servers.

Notes: When configuring racks through Factory Express, a Rack Optimization kit will automatically ship with the rack. This kit is recommended for all other bayed rack configurations also.

Sidewall Panel Kits

HPE G2 Rack 42U 1075mm Side Panel Kit	P9L15A
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HPE G2 Rack 42U 1200mm Side Panel Kit	P9L16A
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HPE G2 Rack 48U 1075mm Side Panel Kit	P9L17A
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HPE G2 Rack 48U 1200mm Side Panel Kit	P9L18A
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Notes: HPE G2 Rack Side Panel Kits are locking, 2-piece panels that provide coverage for both sides of the rack.

Notes: Side Panel kits are not included with G2 Enterprise rack models and must be purchased separately.

Rack Stabilization Kits

HPE 600mm Rack Stabilizer Kit	BW932A
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HPE 600mm Heavy Duty V2 Stabilizer Kit	BW961A
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HPE 800mm Rack Stabilizer Kit	BW933A
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Notes: Anti-tip stabilizer kits provide stability and support when equipment is installed, removed or accessed within the rack. Heavy Duty stabilizer kits should be used when a single racked component exceeds 200 lbs.

HPE Rack Ballast Kit	120672-B21
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Notes: The Ballast Kit is designed to provide additional stability and support when used with the Stabilizer Kit. It is typically used when very heavy equipment is routinely installed, removed or accessed within the rack. Compatible with HPE Advanced and Enterprise Series racks.

Related Options

Tie Down Kit

HPE Universal G2 Rack Tie Down Kit

Q9V01A

Notes: The Rack Tie Down Kit is used to secure the rack to the datacenter floor.**Universal 1U Filler Panels**

HPE 1U 10-pack Black Universal Filler Panel

BW928A

HPE 1U 100-pack Black Universal Filler Panel

BW929A

Notes: Blanking panels are made from high grade molded plastic, and are designed to be installed without tools. The use of blanking panels is recommended to ensure proper airflow.**Rack Shelves**

HPE 10000 Rack 1U Monitor Utility Shelf (Recommended)

253449-B21

Notes: This is a 1U fixed shelf that can be mounted at any height to place a monitor or other component within the rack. The shelf has a maximum weight capacity of 150 lbs. (68kg).**Adjustable Rails**

Depth Adjustable Fixed Rail Kit

332558-B21

Notes: This kit contains two depth adjustable rails that allow Hewlett Packard Enterprise servers, storage, UPSs and other products to be mounted in HPE or third-party racks. Maximum weight capacity is 300 lbs. (136 kg).**Rack Light Kit****Notes:** The Rack Light Kit is mounted under the roof of the rack and is used to illuminate the rear section of the rack. The light is turned on and off with the opening and closing of the rear doors.**Locking Drawer**

HPE 2U Universal Locking Drawer (Extended)

361591-B21

Notes: This rack accessory mounts on HPE Advanced and Enterprise Series racks with sliding rails and is used to store CD's, instruction manuals, tools, and any other items that are frequently used at the rack. Drawer includes lock.**Cable Management Kits**

HPE Quarter Turn Hook and Loop 10 Pack Kit

BW963A

HPE Quarter Turn Hook and Loop 100 Pack Kit

BW964A

Notes: Quarter turn hook and loop straps help attach cables and other devices to the accessory bracket in the rear of the rack without tools.

HPE G2 Cable Management D-ring Kit

Q9V02A

Notes: This kit consists of 10 "D" rings that can be used for cable management.

HPE Rack Cable Management Velcro Clips

379820-B21

HPE G2 Rack Cable Management Combo Kit

Q9V03A

Notes: The HPE Rack Cable Management Combo Kit includes a 1U and 2U front cable entry panel with brush inserts, 2x crossover cable brackets, 10x D-rings, 10x hook and loop straps (8 inch), 10x hook and loop straps (10 inch), and mounting hardware.

Related Options

Rack Fan Kits

Notes: The Rack Fan Kit enhances natural convection cooling by increasing airflow in the rack.

Grounding Kit

HPE G2 Rack Grounding Kit

P9L11A

Notes: The Rack Grounding Kit can be used to reduce the level of electromagnetic emissions outside the rack. The Kit includes (2) 6" Grounding Straps, (3) 14.5" Grounding Straps, (4) 6" Grounding Straps w/connectors, (4) 14.5" Grounding Straps w/connectors.

Hardware Kit

HPE Rack Hardware Kit

H6J85A

Notes: The HPE Rack Hardware Kit includes 24x M6 cage nuts, 24x M6x16 T25 screws, 10x 6mm thread clip nuts, cage nut tool, and 5x Quarter turn hook and loop straps.

Door Kits

HPE G2 Rack 42U 600mm Front Door Kit

P9L22A

HPE Support Services

HPE Install Rack and Rack Options Service

U2871E

HPE Factory Express Services

HPE Hardware Customization Service

HA838A1

HPE 3rd Party Hardware Install Service

HA844A1

HPE Customer Defined Rack Cable Labeling Service

HA850A1

HPE Customer Furnished Equipment Handling Service

HA851A1

HPE Rack Product Placement Service

HA864A1

Notes: HPE Factory Express offers a full line of services. For more information visit <http://www.hpe.com/info/factoryexpress>.

Technical Specifications

Model	Rackable/Useable Area			Total Area	
	Height	Width	Depth	Total Cabinet Area	Shipping Dimensions
P9K37A	42U	600mm	1075mm	78.98 x 44.30 x 23.54 in (200.66 x 112.52 x 59.78 cm)	84.17 x 47.24 x 27.95 in (213.79 x 120.00 x 71.00 cm)
P9K38A	42U	600mm	1075mm	78.98 x 44.30 x 23.54 in (200.66 x 112.52 x 59.78 cm)	85.35 x 50.87 x 35.43 in (216.79 x 129.20 x 89.99 cm)
P9K39A	42U	600mm	1200mm	78.98 x 51.19 x 23.54 in (200.66 x 130.02 x 59.78 cm)	84.65 x 52.92 x 27.95 in (215.00 x 139.50 x 71.00 cm)
P9K40A	42U	600mm	1200mm	78.98 x 51.19 x 23.54 in (200.66 x 130.02 x 59.78 cm)	85.82 x 57.87 x 35.43 in (218.00 x 146.99 x 89.99 cm)
P9K41A	42U	800mm	1075mm	78.98 x 44.30 x 31.34 in (200.66 x 112.52 x 79.78 cm)	84.17 x 47.24 x 35.83 in (213.79 x 120.00 x 91.00 cm)
P9K42A	42U	800mm	1075mm	78.98 x 44.30 x 31.34 in (200.66 x 112.52 x 79.78 cm)	85.35 x 50.87 x 43.43 in (216.79 x 129.20 x 110.31 cm)
P9K45A	42U	800mm	1200mm	78.98 x 51.19 x 31.34 in (200.66 x 130.02 x 79.78 cm)	84.17 x 54.84 x 35.83 in (218.80 x 139.30 x 91.00 cm)
P9K46A	42U	800mm	1200mm	78.98 x 51.19 x 31.34 in (200.66 x 130.02 x 79.78 cm)	85.35 x 57.87 x 43.43 in (216.79 x 146.99 x 110.31 cm)

Understanding rack weights and loads

HPE G2 Enterprise Series Racks are designed to support high capacity weight loads that include the weight of the rack and all the equipment installed. Weight loads are defined as:

- Shipping Weight - rack including shipping packaging and materials.
- Static Load - maximum loaded weight that a rack can support when stationary.
- Dynamic Load (Rolling) - maximum loaded weight a rack can support when rolled.
- Dynamic Load (Shipping) - maximum loaded weight a rack can support when shipped configured with IT equipment

HPE G2 Enterprise Series Racks are rated for Static Loads of up to 3000 lbs. If you require a rack that can be shipped when fully loaded with equipment, please consider purchasing a Shock Pallet model that can support up to 3,000 lbs. during shipment.

Model	Rack Height	Rack Weight (lbs)	Shipping Weight (lbs)	Static Load	Dynamic (Rolling) Load	Dynamic (Shipping) Load
P9K37A	42U	228.18 (103.50 kg)	257.94 (117.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K38A	42U	230.38 (104.50 kg)	421.08 (191.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K39A	42U	249.12 (113.00 kg)	281.09 (127.50 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K40A	42U	251.33 (114.00 kg)	456.36 (207.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K41A	42U	293.44 (133.10 kg)	326.50 (148.10 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K42A	42U	295.66 (134.10 kg)	499.57 (226.60 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)
P9K45A	42U	300.93 (136.50 kg)	336.20 (152.50 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	
P9K46A	42U	303.14 (137.50 kg)	522.50 (237.00 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)	3,000 lbs. (1,361 kg)

Technical Specifications

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 (2002/95/EC) 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 10	Changed	Service and Support section was updated
02-Apr-2019	Version 9	Changed	Related options section was updated Obsolete SKUs were removed.
03-Dec-2018	Version 8	Changed	Related options section was updated
15-Oct-2018	Version 7	Changed	Technical Specification was updated
01-Oct-2018	Version 6	Changed	Technical Specifications & Related Options sections were updated
02-Jul-2018	Version 5	Changed	Related Options Section was updated
05-Feb-2018	Version 4	Changed	Rack Models, Standard Features and Technical Specifications were updated.
07-Aug-2017	Version 3	Added	Added new Baying kits and Door kits.
		Changed	Related Options section was revised.
05-Jun-2017	Version 2	Changed	Overview and Technical Specifications were revised. Product images were updated.
27-Mar-2017	Version 1	Added	New QuickSpecs.

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