

### Overview

#### HPE Trusted Platform Module 2.0 Gen10 Plus

The HPE Trusted Platform Module (TPM) works with programs such as Microsoft Windows® BitLocker™ to increase data security by storing the encryption startup key in hardware on the server, which provides a more secure environment by pairing the drive to the server. Pairing the drive to the server helps prevent the encrypted drive from being read if inserted in a different server. The HPE TPM can also store passwords, certificates, and encryption keys that can authenticate server hardware and software through remote attestation while the measured boot capability enhances the effectiveness of anti-malware solutions.

The HPE TPM options conform to the Trusted Computing Group specifications and provides hardware-based authentication and tamper detection preventing a TPM from being moved to another server or replaced.

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#### What's New

- New Gen10 Plus cover design that adds increased physical tamper security
  - Adds support for TCG TPM Library 1.38
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#### Models

HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit P13771-B21

**Notes:** Compatible with HPE Gen10 Plus Synergy, Rack, and Tower servers. Supports TPM 1.2 (UEFI and Legacy mode) and 2.0 (UEFI mode).

HPE Gen10 Plus TPM WR Module Kit P17413-B21

**Notes:** Compatible with HPE Gen10 Plus Apollo servers. Supports TPM 1.2 (UEFI and Legacy mode) and 2.0 (UEFI mode).

HPE Trusted Platform Module 2.0 Gen10 Option 864279-B21

**Notes:** Compatible with HPE Gen10 servers. Supports TPM 1.2 (UEFI and Legacy mode) and 2.0 (UEFI mode).

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## Standard Features

### TPM Standards

HPE Gen10 Plus TPM BR/WR Module Kit: The chip within the module complies with the Trusted Computing Group specification for version 2.0 revision 1.38 (default) and version 1.2 revision 1.16, and meet Common Criteria Certification level EAL4+.

HPE Trusted Platform Module 2.0 for Gen10: The chip within the module complies with the Trusted Computing Group specification for version 2.0 revision 1.16 (default) and version 1.2 revision 1.16, and meets Common Criteria Certification level EAL4+.

Supported Operating Systems			
SKU	P13771-B21	P17413-B21	864279-B21
<b>Description</b>	HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	HPE Gen10 Plus TPM WR Module Kit	HPE Trusted Platform Module 2.0 Gen10 Option
<b>Microsoft Windows Server Version Supported</b>	<p><b>TPM 1.2</b> Not Supported</p> <p><b>TPM 2.0</b> Windows Server 2016 Windows Server 2019</p>	<p><b>TPM 1.2</b> Not Supported</p> <p><b>TPM 2.0</b> Windows Server 2016 Windows Server 2019</p>	<p><b>TPM 1.2</b> Microsoft Windows Server 2012 R2 (If platform supports OS)</p> <p><b>TPM 2.0</b> Windows Server 2016 Windows Server 2019</p>
<b>Redhat Enterprise Linux Version Supported</b>	<p><b>TPM 1.2</b> RHEL 6.9 and later RHEL 7.0 and later</p> <p><b>TPM 2.0</b> RHEL 7.2 and later RHEL 8.0 and later</p>	<p><b>TPM 1.2</b> RHEL 6.9 and later RHEL 7.0 and later</p> <p><b>TPM 2.0</b> RHEL 7.2 and later RHEL 8.0 and later</p>	<p><b>TPM 1.2</b> RHEL 6.9 and later RHEL 7.0 and later</p> <p><b>TPM 2.0</b> RHEL 7.2 and later RHEL 8.0 and later</p>
<b>SUSE Enterprise Linux Version Supported</b>	<p><b>TPM 1.2</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p> <p><b>TPM 2.0</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p>	<p><b>TPM 1.2</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p> <p><b>TPM 2.0</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p>	<p><b>TPM 1.2</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p> <p><b>TPM 2.0</b> SLES 12 SP2 and newer SLES15 GA and newer <a href="http://www.hpe.com/servers/slescert/min">www.hpe.com/servers/slescert/min</a></p>
<b>VMware Version Supported</b>	<p><b>TPM 1.2</b> vSphere 6.5U3, 6.7U3</p> <p><b>TPM 2.0</b> vSphere 6.7U3</p>	<p><b>TPM 1.2</b> vSphere 6.5U3, 6.7U3</p> <p><b>TPM 2.0</b> vSphere 6.7U3</p>	<p><b>TPM 1.2</b> vSphere 6.0U3, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7U1, 6.7U2, 6.7U3</p> <p><b>TPM 2.0</b> vSphere 6.7, 6.7U1, 6.7U2, 6.7U3</p>

## Standard Features

### Supported HPE BIOS

The HPE Gen10 Plus TPM BR Module Kit is compatible with HPE Gen10 Plus Synergy, Rack and Tower servers.

The HPE Gen10 Plus TPM WR Module Kit is compatible HPE Gen10 Plus Apollo servers.

The HPE Trusted Platform Module 2.0 for Gen10 is compatible with HPE Gen10 servers only.

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### Support Matrix

The Trusted Platform Module Options are designed to be installed onto the vacant TPM connector on supported servers. Once installed, the TPM module becomes a permanent part of the system board. It is not designed to be removed.

The HPE Gen10 Plus TPM BR Module Kit is compatible with HPE Gen10 Plus Synergy, Rack and Tower servers

The HPE Gen10 Plus TPM WR Module Kit is compatible HPE Gen10 Plus Apollo servers.

The HPE Trusted Platform Module 2.0 for Gen10 is compatible with supported HPE Gen10 servers only.

Please see the following URL for the latest list of supported servers and enclosures: <http://www.hpe.com/info/serveroptions>

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### Warranty

The HPE Trusted Platform Module and the HPE Trusted Platform Modules have a 3-year limited warranty regardless of the warranty period for the system in which they are installed.

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## Service and Support

### HPE Services

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

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

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### Consulting Services

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

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

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### HPE Managed Services

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

[HPE Managed Services | HPE](#)

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### Operational services

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

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

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### HPE Complete Care Service

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

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

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

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### HPE Tech Care Service

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

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

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## Service and Support

### HPE Lifecycle Services

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

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

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

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

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

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### Other Related Services from HPE Services:

#### HPE Education Services

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

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

#### Defective Media Retention

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

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

#### Parts and Materials

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

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

#### How to Purchase Services

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

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



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## Service and Support

### AI Powered and Digitally Enabled Support Experience

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

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

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

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### Consume IT On Your Terms

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

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

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

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

For more information

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

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## Technical Specifications

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

Hewlett Packard Enterprise offers end-of-life **U**, 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.

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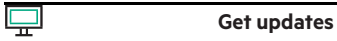
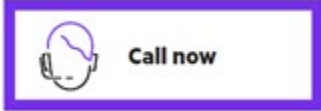
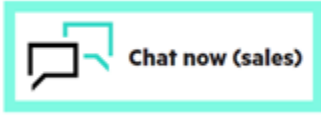
## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
19-Feb-2024	Version 9	Changed	Standard Features Section was updated
04-Dec-2023	Version 8	Changed	Service and Support Section was updated
15-Nov-2021	Version 7	Changed	Service and Support Section was updated
01-Jun-2020	Version 6	Changed	Overview and Standard Features sections were updated. New SKU was added.
03-Feb-2020	Version 5	Changed	Overview section was updated
23-Oct-2017	Version 4	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
11-Jul-2017	Version 3	Changed	Overview and Standard Features were revised.
10-Jun-2016	Version 2	Changed	Changes made throughout the QuickSpecs.
31-Mar-2016	Version 1	New	New QuickSpecs



## Copyright

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