# HP EliteBook 650 15.6 inch G9 Notebook PC



# Upgrade to elite performance

The HP EliteBook 650 is a cost-effective, powerful, and highly secure PC that allows easy standardization into existing IT environments, while giving end-users the tools they need to work from almost anywhere.



\*Product image may differ from actual product

HP recommends Windows 11 Pro for business

## Make connections that matter

Take collaboration to the professional level with optional 4G<sup>3</sup> connectivity and audio/video enhancers
powered by HP Presence<sup>4</sup> on the HP EliteBook 650. Enjoy the crystal-clear audio performance
delivered by HP Dynamic Audio<sup>5</sup> and HP AI Noise Reduction.<sup>6</sup>

### Power to get the job done

 With an Intel<sup>® 2</sup> processor, this globally available PC is easy to service, drives performance, and has long battery life, and optional Thunderbolt<sup>™</sup> docking.<sup>7</sup>

### Protected by HP Wolf Security

- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.<sup>8</sup>
- Optimized for video calls in low-lighting conditions. The HD camera provides visual clarity, while temporal noise reduction lowers the effects of visual noise and pixelation, allowing increased definition so you can capture all the details.<sup>6</sup>
- HP AI Noise Reduction improves collaboration by applying industry-leading noise-filtering technology to all audio input, giving you an enhanced audio and video conferencing experience even while wearing a mask.<sup>6</sup>
- HP Backlight Adjustment includes quality dual image sensors, working together to balance the background and foreground lighting and contrast. Make sure you can clearly be seen without blurring out the background.<sup>6</sup>
- Upscale your resolution and bring new dimension to your images. With HP Super Resolution, you can
  automatically upscale your camera resolution from HD (720p) to FHD (1080p) in a snap.<sup>6,17</sup>
- If your travel schedule is going to keep you on the road, then consider configuring your PC with an
  optional larger battery that can keep you productive.<sup>9</sup>
- Take more of your files with you on the road with an optional second SSD drive.<sup>9</sup>
- Your "office" can be where you need it, letting you stay connected almost everywhere with support for
  optional gigabit class CAT 9 4G LTE wireless broadband technology.<sup>3</sup>
- Know if someone has tried to open the cover of your PC thanks to a tamper lock intrusion detection system.  $^{\rm 10}$
- This PC contains at least 30-percent post-consumer recycled plastic in the bezel, at least 50-percent
  post-consumer recycled plastic in the keycaps, and the outer box packaging is 100-percent
  sustainably sourced.<sup>11,12</sup>
- Enable hardware and software innovations from HP with the myHP application. This single dashboard
  houses access to settings for conferencing, the programmable key, and more.<sup>14</sup>
- Help protect your PC from websites and read-only Microsoft Office and PDF attachments with
  malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.<sup>15</sup>
- Malware is evolving rapidly, and traditional antivirus can't always recognize new attacks. Protect your
  PC against never-before-seen attacks with HP Sure Sense, which uses deep learning AI and machine
  learning to provide exceptional protection.<sup>16</sup>

Internal storage

Available Graphics

Wireless technologies

Ports and Connectors

Input devices

Camera

Software Available software

Communications

Security management Security Software Licenses

Fingerprint reader

Power

Weight

Ecolabels

Warranty

Battery type

Battery life Dimensions

Management features

Certification and compliance

Sustainable impact specifications

Display

Audio

Display size (diagonal, metric)

## HP EliteBook 650 15.6 inch G9 Notebook PC Specifications Table

39.6 cm (15.6")

Integrated: Intel® UHD Graphics; Intel® Iris® Xe Graphics<sup>12,1</sup>

SuperSpeed USB Type-A 5Gbps signaling rate (1 charging); 1 HDMI 2.1<sup>11</sup>

720p HD camera with temporal noise reduction; IR Camera (select models) 12

HP Long Life 3-cell, 42.75 Wh polymer; HP Long Life 3-cell, 51 Wh polymer<sup>36</sup>

EPEAT® registered configurations available; TCO Certified configurations available<sup>35</sup>

for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc

Optional Ports: 1 Smartcard reader (optional); 1 External Nano SIM slot for WWAN44

Dual stereo speakers, dual array microphones

(Compatible with Miracast-certified devices.)

(HDMI cable sold separately.);

HP Smart Support

Up to 13 hours<sup>19</sup>

35.94 x 23.39 x 1.99 cm

CCC; CECP; GS Mark

HP Wolf Pro Security Edition

Fingerprint sensor (select models)

Type-C® adapter; HP Smart 45 W USB Type-C® adapter

Starting at 1.74 kg; (Weight will vary by configuration.)



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HP Premium Keyboard – spill resistant, optional backlit keyboard<sup>14</sup>; Clickpad with multi-touch gesture support;

39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, HD (1366 x 768), narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 12.15.16

1 Thunderbolt™ 4 with USB4™ Type-C<sup>®</sup> 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 headphone/microphone combo; 1 AC power; 1 RJ-45; 3

Intel® I219-LM GbE, vPro®; Intel® I219-V GbE, non-vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® 9.10.17.45; Intel® XMM™ 7560 LTE Advanced Pro Cat 16; Near Field Communication (NFC) module

HP Connection Optimizer; HP Hotkey Support; HP MAC Address Manager; HP Support Assistant; HP Power Manager; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HP Quick Touch; Buy Office (Sold separately)<sup>18</sup>

Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Sure Click; HP Sure Sense; BIOS Update via Network; HP Sure Admin; HP BIOSphere Gen6; HP Client Security Manager Gen7; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock; HP Sure Run Gen5; HP Sure Recover Gen5; Secured-Core PC Enable;<sup>25,26,27,28,29,30,31,32,33,34</sup>

HP Client Management Script Library (download); HP Driver Packs (download); HP Client Catalog (download); HP Manageability Integration Kit Gen4 (download); HP Image Assistant Gen5 (download); HP Patch Assistant (download); HP Cloud Recovery; HP Connect for Microsoft Endpoint Manager<sup>20,21,22,23,24</sup>

Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic; Ocean-bound plastic in speaker enclosure(s)<sup>40</sup>

HP Services offers 1-year or 3-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also

available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service

HP Smart 65 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 45 W External AC power adapter; HP Smart 65 W USB

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## Accessories and services (not included)

HP 635 Multi-Device Wireless Mouse	On the road. In the office. With one device or many. However you work, and whatever you work on, this is one mouse that's ready for anything. Comfortable and customizable with programmable buttons, it also includes Bluetooth® connectivity for added flexibility. <b>Product number: 1D0K2AA</b> <sup>1</sup> Mouse has to be paired with the devices; all devices have to be on the same network and have HPAC software installed. <sup>2</sup> List of apps: Zoom, Sketchup, Adobe photoshop, Adobe Illustrator.
HP Prelude Pro 15.6-inch Recycled Backpack	Commute with a stylish and durable backpack thoughtfully designed with the environment in mind and made with recycled fabric <sup>1</sup> . The HP Prelude Pro Recycled Backpack comes with safety features for your peace of mind when you carry your devices from work to home and beyond. <b>Product number: 1X644AA</b> <sup>1</sup> Backpack external surface made of 95% recycled fabric. <sup>2</sup> Power bank sold separately.
HP 975 Dual-Mode Wireless Keyboard	Now you can make your keyboard truly yours while enjoying an elevated typing experience. That's because you can connect up to 3 devices either via Bluetooth® or USB-A. We've also included many must-have features like comfortable, quiet, soft return keys, 20+ of which can be programmed with shortcuts, controllable smart backlight, and a long life, rechargeable battery. <b>Product number: 32726AA</b> <sup>1</sup> Battery life based on 5 day week, 8 hours per day. Actual battery life will vary with use and environmental conditions, and will naturally decrease with time and usage. <sup>2</sup> Enabled by HP Accessory Center (HPAC) Software. HP Accessory Center (HPAC) software available for free download in Microsoft Store or Apple Store.
HP Stereo USB Headset G2	Plug right in and get ready to speak and hear clearly all day. With noise-cancelling, comfortable design, and easy adjustment, your sound comfort will carry you from call to call without interference or frustration. <b>Product number: 428K6AA</b> <sup>1</sup> Google tested to meet Chromebook compatibility standards. <sup>2</sup> This product works with devices capable of running the latest version of Chrome OS and has been certified to meet Google's compatibility standards. Google is not responsible for the operation of this product or its compliance with safety requirements. Chromebook and the Works With Chromebook badge are trademarks of Google LLC.
HP USB-C Travel Hub G2	Easily expand your laptop's connectivity when working on the go with HP USB-C Travel Hub G2. <sup>1</sup> Add an extra display <sup>2</sup> and your accessories, charge your laptop and phone—all with one USB-C <sup>™</sup> cable connection. <b>Product number: 7PJ38AA</b> [11] Supports multi-function USB-C <sup>™</sup> (video, charging, and USB 3.1) and USB Type-C <sup>™</sup> Thunderbolt-enabled ports. <sup>2</sup> Supports a single display up to 4960 x 2160 @30Hz (2 lane DP only via HDMI) or 1920 x 1200 @ 60Hz via VGA.

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#### Messaging Footnotes

<sup>2</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
<sup>3</sup> Gigabit Class of UTE modules optional and must be configured at the factory. Module edgined for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Checkwith service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, up load and download speeds will vary due to network, location, environment, network con other factors. 4G LF not available on all products. In all regions. <sup>4</sup> HP Presencerequires myHP application and Windows 05. <sup>5</sup> HP Dynamic Audio requires Windows 10 and higher, compatible with internal PC speakers and analog headsets. <sup>6</sup> Requires HmyHP application and Windows 05. <sup>7</sup> Sold separately or as an optional feature. <sup>8</sup> HP Wolf Security for Business requires myHP application and windows 10 and higher, included security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features and OS requirements. <sup>9</sup> Optional feature must be configured at the time of purchase. <sup>10</sup> HP Tamper Lock must be enabled by the customer or your administrator. <sup>11</sup> Recycled plastic content percentage is based on the definition set in the EEE 1680.1-2018 standard. <sup>12</sup> 100% outer box packaging made from sustainably sourced cettified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic. <sup>14</sup> Requires Windows 05. <sup>15</sup> HP Sure Ciker equires Windows 10 and higher. See https://bit.ly/2PritT6A\_SureClick for complete details. <sup>16</sup> HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 11 Pro, or Windows 11 Enterprise 05. <sup>17</sup> HD displayresolution required to view HD images.

#### Technical Specifications Footnotes

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. JSP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com. <sup>2</sup> This system is preinstalled with Windows 10 Pro software and also comes with alicense for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at atime. Switching between versions will require you to unistall oneversion and install the other version. You must back up all data (files, photos, etc.) before unistalling and installing operating systems to avoid loss of your data.

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3 Nulticore is designed to improve performance of certa is solutivere products. Not all customers or software products in cercessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software products. Not all customers or software products are considered as a software products. Not all customers or software products are considered as a software products. Not all customers or software products are considered as a software products. Not all customers or software products are considered as a software products.
4 Processor synchronization mode.
5 Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
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7 Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
6 Intel® Turbo Boost performance varies depending on application work as or Windows 7 operating system on products configured with het and AMD 7 th generation and forward processors or provide any Windows 8 or Windows 7 operating system on products configured with het and AMD 7 th generation and forward processors or provide any Wind

<sup>1</sup> Due to the non-industry status of nature of some unite-party menory moutes, were dominated an analyse and the status of menory beeds, the system with periodinated energy sets of the system with periodinated energy sets of the system with the system set over software.
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<sup>10</sup> Wracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
<sup>11</sup> SuperSpeed USB 20Gbps is not available with Thunderbolt<sup>™</sup> 4.
<sup>12</sup> HD content required to view HD images.
<sup>13</sup> Intel<sup>®</sup> Int<sup>®</sup> VF-Graphics capabilities requires ystem to be configured with htel<sup>®</sup> Core<sup>™</sup> 15 or 7 processors and single channel memory will only function as UHD graphics.
<sup>14</sup> Backlit keyboard is an optional feature.
<sup>15</sup> Besolutions are dependent upon monitor canability and resolution and colordenth settions.

<sup>5</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings

<sup>16</sup> Actual brightness will be lower with touch screen

<sup>17</sup> WWAN module is an optional feature, requires factory configuration and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network <sup>17</sup> WMAM odules an optional feature, requires factory configuration and requires separately purchased service contract. Lineck with service provider for coverage and availability in your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors. 4G LE not availability in your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors. 4G LE not availability in your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors. 4G LE not availability in your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors. 4G LE not availability in your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors. 4G LE not availability of your area. Lonnection speeds will vary due to location, environment, network conditions, and other factors.
 <sup>19</sup> MN B battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See http://www.bapco.com for additional details.
 <sup>20</sup> HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go.klientmanagement.
 <sup>21</sup> HP Manageability integration kit can be download at fitter will be an effective of the previous set of the previo

<sup>21</sup> HP Manageability Integration Kit can be downloaded from http://www.hp.com/go.kitentmanagement.
<sup>22</sup> HP Patch Assistant available loor slect HP DC swith the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/kn/ads/kientmanagement/verview.html.
<sup>23</sup> HP Cloud Recovery is available for 2 by HP, HP Elite and Pro desktops and laptops PCs with httl® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://wom.sendicourment/coS115630.
<sup>24</sup> HP Connectfor Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager.

connection required.

<sup>5</sup>Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Th <sup>25</sup> Absolute agents shipped turned off, and will be activated when customers activate apurchased subscription. Subscriptions can be purchased for terms ranging multipleyears. Service's limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee's alimited warranty. Certain conditions apply. Forfull detals visit, http://www.absolute.com/kompany/legal/agreements/ computrace-agreement. Data Detees an optional service provided by Absolute Software.
 <sup>26</sup> HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane<sup>36</sup>.
 <sup>28</sup> HP Sure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane<sup>36</sup>.
 <sup>28</sup> HP Sure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane<sup>36</sup>.
 <sup>29</sup> HP Sure Cleare Erase for the methods outlined in the National Nation of Pro, Windows 10 Pro, Windows 10 Pro, Windows 11 Pro, or Windows 11 Enterprise Ostandards.
 <sup>29</sup> HP Sure Cleare Erase for the methods outline on English and the on onfiguration.
 <sup>21</sup> HP Sure Cleare Erase for Requires Windows and Savalable on the select HP Elase and Pro PCs.
 <sup>21</sup> HP Sure Cleare For Fouries Windows and Favare Windows 10 and higher.
 <sup>31</sup> HP Sure Run (ers 1's available on select HP PCs and requires Windows 10 and higher.
 <sup>34</sup> HP Sure Run (ers 1's available on select HP PCs and requires Windows 10 and higher.
 <sup>34</sup> HP Sure Recover Gens with Embedded Reimaging is an optional feature which requires Windows 10 and must be configured at purchase. You must back up impor

<sup>37</sup> Availability may vary by country.

38 HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. <sup>24</sup> HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depinding on your geographic to cate of nardoware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc.
 HP services are governed by the appliciable level terms and conditions of service or the HP Limited Warranty provided with your HP Product.
 <sup>38</sup> Based on US EPEAT\* registration according to EEE 1680.1-2018 EPEAT\*. EPEAT\* status varies by country. Vsit www.epeat.net form ore information.
 <sup>40</sup> External power supplies, power cords, cables and peripherals are not Limited warranty provided with your HP Product.
 <sup>41</sup> Second status are supplies, power cords, cables and peripherals are not Limited warranty provided with your HP product.
 <sup>42</sup> External power supplies, power cords, cables and peripherals are not Limited warranty provided with your HP product.
 <sup>43</sup> External power supplies, power cords, cables and peripherals are not Limited warranty provided with your HP product.
 <sup>44</sup> External power supplies, power cords, cables and peripherals are not Limited warranty provided with your HP product.
 <sup>45</sup> External governed by the variable with non-WWAN base Unit AND Primary M.2 storage.
 <sup>45</sup> External governed by the variable with non-WWAN base Unit AND Primary M.2 storage.
 <sup>42</sup> Integrated graphics depends on processor. NVDIA® Optimus™ technology, full enablement of H discretion provided using the instruction of Olivert ho Oliver ho

<sup>42</sup> Integrated graphics depends on processor. NVDDA® Optimus™ technologyrequires an htel processor plus an NVDA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVDA® Optimus™ technology, full enablement of all discrete graphics does and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).
<sup>43</sup> Second storage is only available with non-WWANbase Unit AND Primary M.2 storage.
<sup>44</sup> S M Stot is not user accessible without WWAN configuration.
<sup>45</sup> Intel Vro® requires Windows 10 Pro 64 bit or highet, arVP or supported processor, VP or enabled chipset, vPro enabled wired LAN and *br* Wi-Fi6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro.
<sup>56</sup> HP Wolf Security for Business requires Windows 10 or foid the receivang units and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
<sup>57</sup> HP Smart Stupport automatically collects the telemetry non-excessary upon initial boot of the product to deliver device. Level configuration data and health in sights and is available on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enableHP Smart Support or for download, please visit http://www.hp.com/smart-support.

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