### **Overview**

### HP EliteBook 630 13.3 inch G10 Notebook PC



#### Left

- 1. Internal Microphones (2)
- 2. Webcam LED (Optional)
- 3. Camera Shutter (Only available with webcam)
- 4. HD TNR and IR Camera (Optional)
- 5 IR Camera LED (Optional)
- 6. NFC Sensor

- 7. Clickpad
- 8. Smartcard Reader (Optional)
- 9. Audio Combo Jack
- 10. SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1)
- 11. Ethernet Port (RJ-45)
- 12. Nano Security Lock Slot (Lock sold separately)



**Overview** 



#### Right

- 1. Power Button Key
- 2. Speakers
- 3. Power Connector
- **4.** Thunderbolt<sup>™</sup> 4 with USB4 Type-C<sup>®</sup> 40Gbps signaling rate (USB Power Delivery, DisplayPort<sup>™</sup> 1.4) <sup>1</sup>
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4
- SuperSpeed USB Type-A 5Gbps signaling rate port (Powered port) (USB 3.2 Gen 1)
- 6. HDMI 2.1 Port (Cable not included)
- 7. Touch Fingerprint Sensor (Select Models)



# QuickSpecs

### Overview

### At a Glance

- Choice of 13th generation Intel<sup>®</sup> Core<sup>™</sup> i7, i5 and i3 processors
- Preinstalled with Windows 11 versions or FreeDOS
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 64 GB
- Choice of 33.8 cm (13.3") diagonal HD, Ultra Wide Viewing Angle FHD, Touch or Non-Touch screen, and Privacy Panel option
- Features quiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Choice of solid state drives up to 2 TB
- Multi-layered security with HP SureStart Gen7, HP Privacy Camera, HP Sure View, HP Wolf Security (Includes HP Sure Sense and HP Sure Click), HP Secure Erase, Sure Run Gen5, Sure Recover Gen5, Touch Fingerprint reader, and Tamper Lock
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support HP docking options
- Passed MIL-STD 810H tests <sup>1</sup>
- Battery life up to 11 hours and 30 minutes
- Optimize your video calls with an HD camera and temporal noise reduction that adjusts to the lighting in your environment.
- Can be wiped up to 1000 times with common household cleaning wipes<sup>2</sup>
- Synchronized hinge allows the EliteBook to ProBook to open to 177° +/- 3° without lifting the keyboard and offers visibility from multiple angles.

1. MIL-STD 810GH is not intended to demonstrate fitness of U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

2. See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at http://h20195.www.2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW

#### NOTE: See important legal disclosures for all listed specs in their respective features sections.



### PRODUCT NAME

HP EliteBook 630 13.3 inch G10 Notebook PC

### **OPERATING SYSTEMS**

Windows 11 Pro <sup>1</sup>
Windows 11 Pro Education <sup>1</sup>
Windows 11 Home - HP recommends Windows 11 Pro for Business <sup>1</sup>
Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business <sup>1</sup>
Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing
Agreement <sup>1</sup>
Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) <sup>1,2</sup>
FreeDOS

1. 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. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

<b>Processor</b> 3,4,5,6,7	No	of	Number of E-cores	Threads	L3 Cache	Max Turbo Frequency		Base Frequency		Intel SIPP/vPro® Enterprise	Intel vPro® Essentials		
3,7,3,0,7						P-	E-	P-	E-				
						cores	cores	cores	cores				
Intel® Core™	10	2	0	17	1 7 MD	5.2	3.9	1.8	1.3	Х			
i7-1365U	10	) 2	8	12	12 MB	GHz	GHz	GHz	GHz				
Intel <sup>®</sup> Core™	10	2	8	12	12 MB	5.0	3.7	1.7	1.2				
i7-1355U	10	2				GHz	GHz	GHz	GHz				
Intel <sup>®</sup> Core™	10	2	0	12	12 12 MB	17		4.7	3.5	1.6	1.2	Х	
i5-1345U	10 2	2	8			GHz	GHz	GHz	GHz				
Intel <sup>®</sup> Core™	10	2 0		0	12	12 MB	4.6	3.4	1.3	0.9		Х	
i5-1335U	10	2	8	12		GHz	GHz	GHz	GHz				
Intel <sup>®</sup> Core™	c	2	2 4	8	10 MD	4.5	3.3	1.2	0.9				
i3-1315U	6				10 MB	GHz	GHz	GHz	GHz				

### PROCESSORS

3. 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.

4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



5. Intel<sup>®</sup> Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com

7. Intel vPro<sup>®</sup> requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro<sup>®</sup> Essentials and Enterprise vary. See http://intel.com/vpro

### CHIPSET

Chipset is integrated with processor

### GRAPHICS

#### Integrated

Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> Graphics (Core i5 and Core i7) <sup>8</sup> Intel<sup>®</sup> UHD Graphics (Core i3)

8. Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> Graphics capabilities require system to be configured with Intel<sup>®</sup> Core<sup>™</sup> i5 or i7 processors and dual channel memory. Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> Graphics with Intel<sup>®</sup> Core<sup>™</sup> i5 or 7 processors and single channel memory will only function as UHD graphics.



### DISPLAY

#### Non-Touch

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.3+PSR, anti-glare, Low Blue Light, narrow bezel, 1000 nits, sRGB, 100% for HD + IR Camera, HP Sure View Reflect Gen4 integrated privacy screen with HP Eye Ease <sup>9,10,11,12,13</sup>

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.4+PSR2 anti-glare, LED, low power, narrow bezel, 400 nits, 72% for HD + IR Camera <sup>9,10,11</sup>

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.4+PSR2 anti-glare, LED, low power, narrow bezel, 400 nits, 72% for HD Camera <sup>9,10,11</sup>

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR, anti-glare, LED, narrow bezel, 250 nits, 45%, for HD + IR camera <sup>9,10,11</sup>

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR, anti-glare, LED, narrow bezel, 250 nits, 45%, for HD camera <sup>9,10,11</sup>

33.8 cm (13.3") diagonal, HD (1366 x 768), SVA eDP, anti-glare, WLED, narrow bezel, 250 nits, 45% for HD camera <sup>9,10,11</sup> 33.8 cm (13.3") diagonal, HD (1366x768), SVA eDP, anti-glare, WLED, narrow bezel, 250 nits, 45% <sup>9,10,11</sup>

#### Touch

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR anti-glare, LED, narrow bezel, touch-on-panel screen, 250 nits, 45% for HD + IR camera <sup>9,10,11,13</sup>

33.8 cm (13.3") diagonal, FHD (1920 x 1080), UWVA eDP, anti-glare, LED, narrow bezel, touch-on-panel screen, 250 nits, 45%, for HD camera <sup>9,10,11,13</sup>

#### **Display Size (Diagonal)**

13.3" diagonal 33.8 cm (13.3") diagonal

9. HD content required to view HD images.

10. Sold separately or as an optional feature.

11. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

12. HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

13. Actual brightness will be lower with touchscreen or Sure View.

### **DOCKING (Sold Separately)**

Docking station model #1 Docking station model #2 Docking station model #3 Docking station model #4 Docking station model #5 HP Thunderbolt 120W G4 Dock HP Thunderbolt 280W G4 Dock HP USB-C Dock G5 HP USB-C/A Universal Dock G2 HP USB-C G5 Essential Dock

For additional aftermarket options and docking specs please see page 40.



### **STORAGE AND DRIVES**

#### **Primary Storage**

2 TB PCIe<sup>®</sup> NVMe<sup>™</sup> TLC 2280 Solid State Drive <sup>14</sup> 1 TB PCIe<sup>®</sup> Gen4x4 NVMe<sup>™</sup> M.2 SSD TLC <sup>14,50</sup> 1 TB PCIe<sup>®</sup> NVMe<sup>™</sup> TLC 2280 Self Encrypted OPAL2 Solid State Drive<sup>14</sup> 512 GB PCIe<sup>®</sup> Gen4x4 NVMe<sup>™</sup> M.2 TLC Self Encrypted OPAL2 Solid State Drive <sup>14</sup> 512 GB PCIe<sup>®</sup> Gen4x4 NVMe<sup>™</sup> M.2 TLC Solid State Drive <sup>14</sup> 512 GB PCIe<sup>®</sup> NVMe<sup>™</sup> Value M.2 SSD<sup>14</sup> 256 GB PCIe<sup>®</sup> NVMe<sup>™</sup> Value M.2 SSD <sup>14</sup>

14. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.
50. Available only to HK (Hong Kong), TW (Taiwan) and CN (China).

#### MEMORY

#### Maximum Memory 64 GB DDR4-3200 SDRAM <sup>15</sup>

#### Memory

64 GB DDR4-3200 SDRAM (2x32GB) <sup>15</sup> 32 GB DDR4-3200 SDRAM (2x16GB) <sup>15</sup> 32 GB DDR4-3200 SDRAM (1x32GB) <sup>15</sup> 16 GB DDR4-3200 SDRAM (2x8GB) <sup>15</sup> 16 GB DDR4-3200 SDRAM (1x16GB) <sup>15</sup> 8 GB DDR4-3200 SDRAM (1x8GB) <sup>15</sup> 8 GB DDR4-3200 SDRAM (2x4GB) <sup>15</sup>

#### **Memory Slots**

2 SODIMM Slot is customer accessible / upgradeable DDR4 PC4 SODIMMS (Raptor Lake runs at 3200) Supports Dual Channel Memory

15. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.



### **NETWORKING/COMMUNICATIONS**

#### WLAN

Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 160MHz CNVi World-wide WLAN non-vPro® Wireless Card <sup>16</sup> Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 160MHz CNVi World-wide WLAN vPro® Wireless Card <sup>16</sup>

#### NFC

NXP NPC300 Near Field Communication Module (NFC Mirage WNC XRAV-1)

#### Miracast

Native Miracast Support <sup>17</sup>

#### Ethernet

Intel® I219-LM 1 Gigabit Network Connection LOM (vPro) <sup>18</sup> Intel® I219V 1 Gigabit Network Connection LOM (non-vPro) <sup>18</sup>

16. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.

17. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming. 18. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.



### AUDIO/MULTIMEDIA

#### Audio

2 Integrated stereo speakers Integrated microphone (Dual Array)

#### **Speaker Power**

2W/4ohm Per speaker

#### Webcam

720p HD camera with Temporal Noise Reduction <sup>9,10</sup> 720p HD camera+IR Camera with Temporal Noise Reduction for face authentication with Windows Hello <sup>9,10</sup>

9. HD content required to view HD images. 10. Sold separately or as an optional feature.

### **KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS**

#### Keyboard

HP Premium Keyboard, spill resistant with optional backlit function <sup>19</sup>

#### **Pointing Device**

Clickpad with multi-touch gesture support

#### **Function Keys**

- F1 Display Switching
- F2 Blank or SureView On/Off
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Insert
- F11 Wireless
- F12 Programmable key

#### **Hidden Function Keys**

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock

19. Backlit keyboard is an optional feature.

### **SOFTWARE AND SECURITY**

### Preinstalled Software

Software HP Quick Drop <sup>20</sup> HP PC Hardware Diagnostics Windows myHP with Video Controls HP Smart Support <sup>21</sup> HP Services Scan <sup>22</sup> HP Connection Optimizer HP Hotkey Support HP Hotkey Support HP Notifications HP Privacy Settings HP Power Manager Buy Microsoft Office (Sold separately)

#### **Manageability Features**

HP Connect <sup>24</sup> HP Image Assistant Gen5 (download) HP Manageability Integration Kit (download) <sup>25</sup> HP Client Management Script Library (download) HP Patch Assistant (download) <sup>26</sup> HP Driver Packs (download) HP Client Catalog (download) HP Cloud Recovery

#### **Security Management**

HP Wolf Security for Business <sup>27</sup> includes: HP Sure Click <sup>28</sup> HP Sure Sense <sup>29</sup> HP Sure Run <sup>30</sup> HP Sure Recover <sup>31</sup> HP Sure Start <sup>32</sup> HP Tamper Lock HP Sure Admin <sup>33</sup>

#### BIOS

HP BIOSphere Gen6 <sup>34</sup> HP Secure Erase <sup>35</sup> Absolute Persistence Module <sup>36</sup> BIOS Update via Network HP Wake on WLAN Secured-Core PC Enable <sup>37</sup> TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified) HP Fingerprint Sensor <sup>38</sup>

#### Security

TPM Model: Nuvoton NPCT760HABYX Version: 7.2.3.1



Revision: TPM 2.0 FIPS 140-2 Compliant: Yes

Smartcard Reader Model number: Alcor AU9560 FIPS 201 Compliant: Yes

IPv6 Support Yes

FirstNet Certified Yes

#### The BIOS on this notebook implements ISO/IEC 19678:2015 guidelines (formerly NIST 800-147).

UEFI version: 2.7 Class: 3

20. HP Quick Drop requires Internet access and Windows 10 or higher PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

21. HP Smart Support requires HP TechPulse to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support.

22. HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements. Not applicable in China. 23. HP Support Assistant requires Windows and Internet access.

24. HP Connect for 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 required and sold separately. Network connection required.

25. HP Manageability Integration Kit can be downloaded from

http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

26. HP Patch Assistant available on select HP PCs with 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/en/ads/clientmanagement/overview.html.

27. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.

28. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A\_SureClick for complete details.

29. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS

30. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

31. HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module

32. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher

33. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from

http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store

34. HP BIOSphere Gen6 features may vary depending on the platform and configuration.



35. 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<sup>®</sup> Optane<sup>™</sup>.

36. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/

37. Secured-Core PC Enable requires an Intel<sup>®</sup> vPro<sup>®</sup>, AMD Ryzen<sup>™</sup> Pro processor or Qualcomm<sup>®</sup> processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.

38. HP Fingerprint sensor is an optional feature that must be configured at purchase.



### POWER

#### **Power Supply**

AC Adapter 45 Watt nPFC Standard USB Type-C<sup>®</sup> Straight 1.8m <sup>39</sup> AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m <sup>39</sup> AC Adapter 45 Watt Smart nPFC Standard C8 for 2 prong Barrel 4.5mm Right Angle <sup>39</sup> AC Adapter 65 Watt nPFC Standard USB Type-C<sup>®</sup> Straight 1.8m <sup>39</sup> AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM <sup>39</sup> AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m <sup>39</sup>

#### Battery

HP Long Life 3-cell, 42.75 Wh Polymer <sup>40,41</sup> Compliant with UL 1642 Standard

#### **Power Cord**

3-wire plug - 1m <sup>39</sup> 2-wire plug - 1m <sup>39</sup>

#### **Battery Life**

Up to 11 hours and 30 minutes with 42whr battery (HP Long Life 3-Cell, 42 Whr Polymer, UMA graphic, Intel U15, Display set to 200 nits display (on a 400 nit display), 2\*4G memory, 256 GB SSD)<sup>42</sup>

#### **Battery Weight**

HP Long Life 3-cell - 42.75 Wh Polymer - .40 lb HP Long Life 3-cell - 42.75 Wh Polymer - 181.83 g

39. Availability may vary by country.

40. Battery is internal and not replaceable by customer. Serviceable by warranty.

41. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

42. MM18 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 www.bapco.com for additional details.



### **WEIGHTS & DIMENSIONS**

**Product Weight** Starting at 2.7 lb <sup>43</sup> Starting at 1.22 kg <sup>43</sup>

#### Product Dimensions (W x D x H)

12.08 x 8.20 x 0.62 in 30.69 x 20.84 x 1.59 cm

#### Packaging Dimensions (W x D x H) 44

12"-15" boxes (305mm height): 1200mm x 1000mm x 1080mm

43. Weight will vary by configuration. Does not include power adapter.44. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.

### **PORTS/SLOTS**

Thunderbolt<sup>™</sup> 4 with USB4<sup>™</sup> Type-C<sup>®</sup> 40 Gbps signaling rate (USB Power Delivery, DisplayPort<sup>™</sup> 1.4) <sup>45</sup>
 SuperSpeed USB Type-A 5Gbps signaling rate Port (1 Powered port)
 AC power
 HDMI 2.1 <sup>46</sup>
 Headphone/microphone combo jack
 RJ-45
 Smart Card Reader (optional)

45. SuperSpeed USB 20Gbps is not available with Thunderbolt<sup>™</sup> 4 46. HDMI cable sold separately

### **SERVICE AND SUPPORT**

1-year and 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 for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.<sup>47</sup>

47. 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 http://www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



### SYSTEM UNIT

19V
3.49W
Yes
N/A
45W
32° to 95° F (0° to 35° C)
(No sustained direct exposure to sunlight)
(System performance may be reduced above 32°C (89.6°F))
-4° to 140° F (-20° to 60° C)
10% to 90% (non-condensing)
5% to 95%
(38.7° C (101.6° F) maximum wet bulb tempera-ture; non-condensing)
40 G, 2 ms, half-sine
240 G, 2 ms, half-sine
1.043 grams
3.5 grams
10,000 ft (3,048 m)
40,000 ft (12,192 m)
40,000 IT (12,192 III)
HSN-Q33C
Yes
Yes <sup>48</sup>
EPEAT <sup>®</sup> Gold in the United States <sup>49</sup>
Yes
Yes
Yes
Related commodity should comply with ISO 9241 Standards.
Yes



48. Configurations of the HP EliteBook 630 13.3 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP HP EliteBook 630 13.3 inch G10 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov. 49. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

### DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View. **NOTE:** All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

13.3 in FHD (1920 x 1080)	Outline Dimensions (W x H x D)	299.060 x 185.550 (max)
Anti-Glare UWVA Low Blue	Active Area	293.760 x 165.240mm (typ)
Light sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus	Weight	210g (max)
flat LCD Panel	Diagonal Size	13.3 (inch)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1500:1 (typ)
	Refresh Rate	60Hz
	Brightness	1000nits <sup>1</sup>
	Pixel Resolution - Format	1920 x1080 (FHD)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	UWVA 85/85/85/85
	Low Blue Light	Yes
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	N/A

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR slim NWBZ

Outline Dimensions (W x H x D)	300.560 x 187.770 mm (max)
Active Area	293.760 x 165.240 mm (typ.)
Weight	260g (max)
Diagonal Size	13.3 (inch)
Surface Treatment	Anti-Glare
Touch Enabled	No
Contrast Ratio	600:1 (typ.)
Refresh Rate	60Hz
Brightness	250 nits <sup>1</sup>
<b>Pixel Resolution - Format</b>	1920 x 1080 (FHD)
Backlight	LED
Pixel Resolution	RGB Stripe
Color Gamut Coverage	45%

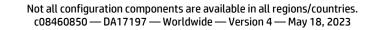
Not all configuration components are available in all regions/countries. c08460850 — DA17197 — Worldwide — Version 4 — May 18, 2023



	Color Depth Viewing Angle Low Blue Light Power Consumption (W, EBL@ 150nits max/ 200nits max)	6 bits UWVA 85/85/85/ No 2.40 (max)/ NA
Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP slim Touch on Panel NWBZ	Outline Dimensions (W x H x D) Active Area Weight Diagonal Size Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format Backlight Pixel Resolution Color Gamut Coverage Color Depth Viewing Angle Low Blue Light Power Consumption (W, EBL@ 150nits max/ 200nits max)	300.560 x 187.770 mm (max) 293.760 x 165.240 mm (typ.) 268 g (max) 13.3 (inch) Anti-Glare Yes <sup>1</sup> 600:1 (typ.) 60Hz 250nits <sup>1</sup> 1920 x 1080 (FHD) LED RGB Stripe 45% 6 UWVA 85/85/85/85 No 2.70 (max)/ NA

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 400nits eDP 1.4+PSR2 ultraslim LP NWBZ

Outline Dimensions (W x H x D)	299.060 x 185.540 mm (max)
Active Area	293.76 x 165.24 mm (typ.)
Weight	170 g (max)
Diagonal Size	13.3 (inch)
Surface Treatment	Anti-Glare
Touch Enabled	No
Contrast Ratio	1200:1 (typ.)
Refresh Rate	60Hz
Brightness	400 nits <sup>1</sup>
Pixel Resolution - Format	1920 x 1080 (FHD)
Backlight	LED
Pixel Resolution	RGB
Color Gamut Coverage	72%
Color Depth	8



# QuickSpecs

•		
	Viewing Angle	UWVA 85/85/85
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	1.09 (max)/ 1.30 (max)
Panel LCD 13.3-in HD	Outline Dimensions (W x H x D)	300.560 x 187.770 mm (max)
(1366x768) Anti-Glare	Active Area	293.830x 165.200 mm
WLED SVA 45percent cg 250nits eDP NWBZ	Weight	260 g (max)
ultraslim	Diagonal Size	13.3 (inch)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	300:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits <sup>1</sup>
	Pixel Resolution - Format	1366 x 768 (HD)
	Backlight	LED
	Pixel Resolution	RGB Stripe
	Color Gamut Coverage	NTSC 45%
	Color Depth	6
	Viewing Angle	SVA 45/45/15/35
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	1.95 (max) / 2.37 (max)



### **STORAGE AND DRIVES**

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

SSD 256GB 2280 PCIe NVMe	Form Factor	M.2 2280
Value	Capacity	256GB
	NAND Type	Value
	Interface	PCIe NVMe
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	900 MB/s ±20%
	Logical Blocks	500118192
	Features	ATA Security; TRIM; L1.2
SSD 512GB 2280 PCIe	Form Factor	M.2 2280
NVMe Value	Capacity	512GB
	NAND Type	Value
	Interface	PCIe NVMe
	Maximum Sequential Read Maximum Sequential Write Logical Blocks Features	2200 MB/s ±20% 1000 MB/s ±20% 1000215216 Pyrite 2.0, TRIM; L1.2
256GB PCIe 2280 NVMe	Form Factor	M.2 2280
Self Encrypted OPAL2 Value Solid State Drive	Capacity	256 GB
	NAND Type	Opal2 Value
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read Maximum Sequential Write Logical Blocks Features	2000 MB/s ±20% 900 MB/s ±20% 500,118,192 Pyrite 2.0, TRIM; L1.2
512GB PCIe-4x4 2280	Form Factor	M.2 2280
NVME Self Encrypted OPAL2 Three Layer Cell	Capacity	512 GB
Solid State Drive	NAND Type	Opal2 TLC
	Interface Maximum Sequential Read Maximum Sequential Write	PCIe NVMe Gen4X4 6400 MB/s ±20% 3500 MB/s ±20%
	Logical Blocks Features	1,000,215,216 Pyrite 2.0, TRIM; L1.2
1TB PCIe-4x4 2280 NVME Self Encrypted OPAL2	Form Factor Capacity	M.2 2280 1 TB
	NAND Type	Opal2 TLC



Not all configuration components are available in all regions/countries. c08460850 — DA17197 — Worldwide — Version 4 — May 18, 2023

Three Layer Cell Solid State Drive	Interface Maximum Sequential Read Maximum Sequential Write Logical Blocks Features	PCIe NVMe Gen4X4 6400 MB/s ±20% 5000 MB/s ±20% 2,000,409,264 Pyrite 2.0, TRIM; L1.2
SSD 512GB 2280 PCIe-4x4	Form Factor	M.2 2280
NVMe Three Layer Cell	Capacity	512 GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read Maximum Sequential Write Logical Blocks Features	6400 MB/s ±20% 3500 MB/s ±20% 1,000,215,216 Pyrite 2.0, TRIM; L1.2
SSD 1 TB 2280 PCIe NVMe	Form Factor	M.2 2280
Value <sup>1</sup>	Capacity	1TB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	3200 MB/s ±20%
	Maximum Sequential Write	2700 MB/s ±20%
	Logical Blocks	2,000,409,264
	Features	Pyrite 2.0; TRIM; L1.2
1. Available only to HK (Ho	ng Kong), TW (Taiwan) and CN (Chir	na).
SSD 2TB 2280 PCIe-4x4	Form Factor	M.2 2280
NVMe Three Layer Cell	Capacity	2 TB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s ±20%
	Maximum Sequential Write	5000 MB/s ±20%
	Logical Blocks	4,000,797,360
	Features	Pyrite 2.0; TRIM; L1.2



### **NETWORKING/COMMUNICATIONS**

Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 160MHz CNVi World-wide WLAN vPro Wireless Card <sup>1</sup>	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11h IEEE 802.11i
		IEEE 802.11r IEEE 802.11v
	Intereserability	
	Interoperability Frequency Band	Wi-Fi certified •802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz
	Data Rates	<ul> <li>802.11b: 1, 2, 5.5, 11 Mbps</li> <li>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11n: max 300Mbps</li> <li>802.11ac : 1733Mbps</li> <li>802.11ax : max 2.4Gbps</li> </ul>
	Modulation	Direct Sequence Spread Spectrum
		OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security <sup>2</sup>	<ul> <li>IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>AES-CCMP: 128 bit in hardware</li> <li>802.1x authentication</li> <li>WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>WPA2 certification</li> <li>WPA3 certification</li> <li>IEEE 802.11i</li> <li>WAPI</li> </ul>
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)



Roaming	IEEE 802.11 compliant roaming between access points			
Output Power <sup>3</sup>	• 802.11b : +17dBm minimum			
	• 802.11g : +16d			
	• 802.11a : +17d			
		2.4GHz) : +14dBm minimum		
		2.4GHz) : +13dBm minimum		
		5GHz) : +14dBm minimum		
	• 802.11n HT40(5GHz) : +13dBm minimum • 802.11ac VHT80(5GHz) : +10dBm minimum			
		60(5GHz) : +10dBm minimum 60(5GHz) : +10dBm minimum		
		)(2.4GHz) : +12dBm minimum		
		)(5GHz) : +10dBm minimum		
		60(5GHz) : +10dBm minimum		
Power Consumption	• Transmit mode			
	Receive mode			
	• Idle mode (PSP	) 180 mW (WLAN Associated)		
	• Idle mode 50 m	nW (WLAN unassociated)		
	<ul> <li>Connected Star</li> </ul>	ndby 10mW		
	<ul> <li>Radio disabled</li> </ul>	8 mW		
Power Management	ACPI and PCI Exp	ress compliant power management		
	802.11 compliar	nt power saving mode		
Receiver Sensitivity <sup>4</sup>	• 802.11b, 1Mbp	s : -93.5dBm maximum		
		ps : -84dBm maximum		
		bps : -86dBm maximum		
	• 802.11a/g, 54Mbps : -72dBm maximum			
	• 802.11n, MCS07 : -67dBm maximum • 802.11n, MCS15 : -64dBm maximum			
		5 : -64dBm maximum 0(VHT80) : -84dBm maximum		
	• 802.11ac, MCS9(VHT80) : -59dBm maximum • 802.11ac, MCS9(VHT160) : -58.5dBm maximum			
		11(HE40): -57dBm maximum		
		11(HE80): -54dBm maximum		
	•	11(HE160): -53.5dBm maximum		
Antenna type	High efficiency a	ntenna with spatial diversity, mounted in the display		
	enclosure			
	Two embedded o	dual band 2.4/5 GHz antennas are provided to the card to		
	support WLAN M	IMO communications and Bluetooth communications		
Form Factor	PCI-Express M.2	MiniCard		
Dimensions	1. Type 2230 : 2.3 x 22.0 x 30.0 mm			
	2. Type 1216: 1.	67 x 12.0 x 16.0 mm		
Weight	1. Type 2230 : 2.	8g		
	2. Type 1216: 1.3g			
Operating Voltage	3.3v +/- 9%			
Temperature	Operating	14° to 158° F (–10° to 70° C)		
	Non-operating	–40° to 176° F (–40° to 80° C)		
Humidity	Operating	10% to 90% (non-condensing)		
	Non-operating	5% to 95% (non-condensing)		

А	lltitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
L	ED Activity		io OFF; LED OFF – Radio ON
HP Integrated Module with B		)/5.1/5.2/5.3 Wire	eless Card
В	luetooth Specification	4.0/4.1/4.2/5.0/5	5.1/5.2/5.3 Compliant
F	requency Band	2402 to 2480 MH	lz
	lumber of Available Thannels	Legacy : 0~79 (1 BLE : 0~39 (2 MH	
-	)ata Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)	
т	ransmit Power		mponent shall operate as a Class II Bluetooth device with smit power of + 9.5 dBm for BR and EDR.
Ρ	Power Consumption	Peak (Tx): 330 m Peak (Rx): 230 m Selective Suspen	W
S	Gluetooth Software Supported ink Topology	Bluetooth Softwa	are
Р	ower Management	Microsoft Window	ws ACPI, and USB Bus Support
C	ertifications	FCC (47 CFR) Part	: 15C, Section 15.247 & 15.249
	ower Management ertifications	ETS 300 328, ETS Low Voltage Dire UL, CSA, and CE M	ctive IEC950
_	Bluetooth Profiles Supported	LE L2CAP Connect Train Nudging & I BT4.2 ESR08 Con LE Secure Connect LE Privacy 1.2 – L LE Privacy 1.2 – E LE Data Packet Le FAX Profile (FAX) Basic Imaging Pro Headset Profile (I Hands Free Profil	g e Directed Advertising tion Oriented Channels Interlaced Scan npliance ction- Basic/Full ink Layer Privacy xtended Scanner Filter Policies ength Extension ofile (BIP)2 HSP) le (HFP) Distribution Profile (A2DP)



**Channel Selection Algo** Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range BT5.3 Host to Controller Encryption Key Control Enahancements Compliance to the latest Errata Section 12.3 of BT 5.3 specification

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

2. Check latest software/driver release for updates on supported security features.

3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Intel® AX211 Wi-Fi 6E +	Wireless LAN Standards	IEEE 802.11a
Bluetooth <sup>®</sup> 5.3 M.2		IEEE 802.11b
160MHz CNVi World-wide		IEEE 802.11g
WLAN non-vPro Wireless		IEEE 802.11n
Card <sup>1</sup>		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	•802.11b/g/n/ax
		2.402 – 2.482 GHz
		•802.11a/n/ac/ax
		4.9 – 4.95 GHz (Japan)
		5.15 – 5.25 GHz
		5.25 – 5.35 GHz
		5.47 – 5.725 GHz
		5.825 – 5.850 GHz
		5.955 – 6.415 GHz
		6.435 – 6.515 GHz
		6.535 – 6.875 GHz
		6.895 – 7.115 GHz
	Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps
		• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		-



	• 802.11n: max 300Mbps • 802.11ac : 1733Mbps • 802.11ax : max 2.4Gbps
Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security <sup>2</sup>	<ul> <li>IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>AES-CCMP: 128 bit in hardware</li> <li>802.1x authentication</li> <li>WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>WPA2 certification</li> <li>WPA3 certification</li> <li>IEEE 802.11i</li> <li>WAPI</li> </ul>
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power <sup>3</sup> Power Consumption	<ul> <li>802.11b : +17dBm minimum</li> <li>802.11g : +16dBm minimum</li> <li>802.11a : +17dBm minimum</li> <li>802.11a : +17dBm minimum</li> <li>802.11n HT20(2.4GHz) : +14dBm minimum</li> <li>802.11n HT40(2.4GHz) : +13dBm minimum</li> <li>802.11n HT20(5GHz) : +14dBm minimum</li> <li>802.11ac VHT80(5GHz) : +10dBm minimum</li> <li>802.11ac VHT80(5GHz) : +10dBm minimum</li> <li>802.11ax HE40(2.4GHz) : +12dBm minimum</li> <li>802.11ax HE40(5GHz) : +10dBm minimum</li> <li>802.11ax HE160(5GHz) : +10dBm minimum</li> </ul>
Power Management	• Radio disabled 8 mW ACPI and PCI Express compliant power management
Receiver Sensitivity <sup>4</sup>	802.11 compliant power saving mode • 802.11b, 1Mbps : -93.5dBm maximum • 802.11b, 11Mbps : -84dBm maximum • 802.11a/g, 6Mbps : -86dBm maximum • 802.11a/g, 54Mbps : -72dBm maximum • 802.11n, MCS07 : -67dBm maximum • 802.11n, MCS15 : -64dBm maximum • 802.11ac, MCS0(VHT80) : -84dBm maximum • 802.11ac, MCS9(VHT80) : -59dBm maximum • 802.11ac, MCS9(VHT160) : -58.5dBm maximum • 802.11ax, MCS11(HE40): -57dBm maximum • 802.11ax, MCS11(HE80): -54dBm maximum • 802.11ax, MCS11(HE160): -53.5dBm maximum



	Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure	
		Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications	
	Form Factor	PCI-Express M.2	MiniCard
	Dimensions		3 x 22.0 x 30.0 mm 57 x 12.0 x 16.0 mm
	Weight	1. Type 2230 : 2.8 2. Type 1216: 1.3	-
	Operating Voltage	3.3v +/- 9%	
	Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
	Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
	Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
	LED Activity	LED Amber – Rac	lio OFF; LED OFF — Radio ON
HP Integrated Module with	h Bluetooth 4.0/4.1/4.2/5.0	/5.1/5.2/5.3 Wire	eless Card
	Bluetooth Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant	
	Frequency Band	2402 to 2480 MH	lz
	Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)	
	Signaling Data Rate	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)	
	Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device wit a maximum transmit power of + 9.5 dBm for BR and EDR.	
	Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW	
	Bluetooth Software Supported Link Topology	Bluetooth Software	
	Power Management	Microsoft Windows ACPI, and USB Bus Support	
	Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249	
	Power Management Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark	
	Bluetooth Software Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer	



LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels **Train Nudging & Interlaced Scan** BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 – Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) BT5.2 ESR9/10 Compliance LE Advertisement Extensions **Channel Selection Algo** Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range BT5.3 Host to Controller Encryption Key Control Enahancements Compliance to the latest Errata Section 12.3 of BT 5.3 specification

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

2. Check latest software/driver release for updates on supported security features.

3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



# QuickSpecs

NFC Mirage module (NXP	Dimensions (L x W x H)	Module 25 mm by 10 mm by 2.0 mm
NPC300 I2C 10mmx17mm)	Chipset System interface	NPC300 I2C
	NFC RF standards	ISO/IEC 14443 A
	NFC KF Stanuarus	ISO/IEC 14443 A
		ISO/IEC 15693
		ISO/IEC 18092
		ECMA-340 NFCIP-1 Target and Initiator
		ECMA-320 NFCIP-2
	NFC Forum Support	Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2
	Reader (PCD-VCD) Mode	ISO/IEC 14443 A
		ISO/IEC 14443 B
		ISO/IEC 15693
		MIFARE 1K
		MIFARE 4K MIFARE DESFire
		FeliCa
		Jewel and Topaz cards
	Card Emulation (PICC-VICC)	ISO/IEC 14443 A
	Mode	ISO/IEC 14443 B and B'
		MIFARE
		FeliCa
	Frequency	13.56 MHz
	NFC Modes Supported	Reader/Writer, Peer-to-Peer
	Raw RF Data Rates	106, 212, 424, 848 kbps
	Operating temperature	0°C to 70°C
	Storage temperature	-20°C to 125°C
	Humidity	10-90% operating
		5-95% non-operating
	Supply Operating voltage	4.35 to 5.25 Volts
	I/O Voltage	1.8V or 3.3V
	Power Consumption	
	(Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)	
	S.SV, VCC_BOOST = SV) Mode	Power Consumption, Typical
	Polling	7.3 mA
	Detected Test Tag Type 1	Total 283.8 mA
	Detected rest ray type I	Net Module 236.8 mA
	Detected Test Tag Type 2	Total 288.8 mA
		Net Module 241.8 mA
	Detected Test Tag Type 3	Total 287.7 mA
		Net Module 240.7 mA
	Detected Test Tag Type 4	Total 282.3 mA
	_	Net Module 235.3 mA
	Antenna	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna
		matching is external to module.



Intel® I219-LM 1 Gigabit	Connector	RJ-45
Network Connection LOM	System Interface	PCI (Intel proprietary) + SMBus
(vPro)	Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21- 30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
	IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
	Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling (Hash Mode Only) Jumbo Frame 9K
	Power consumption	Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	Management Interface	Auto MDI/MDIX Crossover cable detection
	IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
	Security & Manageability	Intel® vPro™ support with appropriate Intel® chipset components

Intel® I219v 1 Gigabit Network Connection LOM	Connector	RJ-45
	System Interface	PCI(Intel proprietary) + SMBus
(non-vPro)	Data rates supported	<ol> <li>1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)</li> <li>2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)</li> <li>3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 40)</li> <li>4. Auto-Negotiation (Automatic Speed Selection)</li> </ol>



	Full Duplex Operation at all Speeds, Half Duplex operation at 10, 100 & 1000 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BAE-T IEEE 802.3bz 2.5GBASE-T
Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling (Hash Mode only) Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bps Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
Security & Manageability	Intel® non-vPro™ support with appropriate Intel® chipset components



### POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

AC Adapter 45 Watt nPFC	Dimensions (H x W x D)	3.701 x 1.693 x 1.071 in (	9.4 x 4.3 x 2.72 cm)
Standard USB Type C® Straight 1.8m	Weight	0.44 lb (200 g) max (Not including power cord. Power cord varies by country.) 100~240VAC	
	Input		
		Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 87.4% 15V: 87.8%
		Input frequency range	47 ~ 63Hz
		Input AC current	Max. 1.4 A at 90 Vac
	Output	Output power	5V/15W 9V/27W 12V/36W 15V/45W
		DC output	5V/9V/12V/15V
		Hold-up time	100% load 5ms at 115 Vac input
		Output current limit	<5.0A
	Connector	USB Type-C®	
	Environmental Design	Operating temperature	32°F to 95°F (0°to 35°C)
		Non-operating (storage) temperature	-4ºF to 185ºF (-20ºto 85ºC)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	Worldwide safety standar EN62368-1:2014+A11, U Agency approvals - C-UL- Class B, CISPR32 Class B, and K-MEPS, NOM-001 an	US, TUV/GS, TUV/PSE, EN55032 Class B, FCC CCC and CECP, CU(EAC), EAEU, KCC (Safety+EMC) nd 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, lia RCM, BIS, BSMI, UAE, UKCA DoC, USB-IF,
AC Adapter 45 Watt Smart	t Dimensions (H x W x D)	3.74 x 1.772 x 1.043 in (9	.5x4.5x2.65cm)
nPFC Standard Barrel 4.5mm Right Angle 1.8m	Weight	0.44 lb (200 g) max (Not including power cord	l. Power cord varies by country.)
		100~240VAC	
	Input	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.4 A at 90 Vac



Technical Specifi	cations			
	Output	Output power	45W	
		DC output	19.5V	
		Hold-up time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input	
		Output current limit	<8.0A	
	Connector	4.5mm Barrel Type		
	Environmental Design	Operating temperature	32ºF to 95ºF (0ºto 35ºC)	
		Non-operating (storage) temperature	-4°F to 185°F (-20°to 85°C)	
		Altitude	0 to 16,400 ft (0 to 5000m)	
		Humidity	20% to 95%	
		Storage Humidity	10% to 95%	
	EMI and Safety Certifications	Worldwide safety standar EN62368-1:2014+A11, UL Agency approvals – C-UL-I Class B, CISPR32 Class B, C and K-MEPS, NOM-001 an	with LVD and EMC directives ds - IEC60950-1 and IEC62368-1 : 2018, L62368-1 US, TUV/GS, TUV/PSE, EN55032 Class B, FCC CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) d 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, lia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC	
AC Adapter 65 Watt nPFC	Dimensions (H x W x D)	3.543 x 2.008 x 1.122 in (	9.0x5.1x2.85cm	
Standard USB Type C® Straight 1.8m	Weight	0.53 lb (240 g) max (Not including power cord. Power cord varies by country.)		
	Input	100~240VAC		
		Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5% 9V : 86.7% 12V : 88% 15V : 88% 20V : 89%	
		Input frequency range	47 ~ 63 Hz	
		Input AC current	Max. 1.6 A at 90 Vac	
	Output	Output power	5V/15W 9V/27W 12V/60W 15V/60W 20V/65W	
		DC output	5V/9V/12V/15V/20V	
		Hold-up time	100% load 5ms at 115 Vac input	
		Output current limit	<8.0A	
	Connector	USB TYPE C <sup>®</sup>		
	Environmental Design	Operating temperature	32°F to 95°F (0°to 35°C)	



Technical Specific	ations		
		Non-operating (storage) temperature	-4°F to 185°F (-20°to 85°C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	Worldwide safety standar EN62368-1:2014+A11, UL Agency approvals - C-UL-I Class B, CISPR32 Class B, C and K-MEPS, NOM-001 an	with LVD and EMC directives ds - IEC60950-1 and IEC62368-1 : 2018, . 62368-1 JS, TUV/GS, TUV/PSE, EN55032 Class B, FCC CCC and CECP, CU(EAC), EAEU, KCC (Safety+EMC) d 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, ia RCM, BIS, BSMI, UAE, UKCA DoC
AC Adapter 65 Watt Smart	Dimensions (H x W x D)	4.016 x 2.165 x 1.181 in (1	10.2 x 5.5 x 3 cm)
nPFC EM Barrel 4.5mm	Weight	0.58 lb (265 g) max (Not including power cord. Power cord varies by country.)	
	Input	100 ~ 240VAC	
		Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.7 A at 90 Vac
	Output	Output power	65W
		DC output	19.5V
		Hold-up time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
		Output current limit	<11.0A
	Connector	4.5mm Barrel Type	
	Environmental Design	Operating temperature	32°F to 95°F (0°to 35°C)
		temperature	-4°F to 185°F (-20°to 85°C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	Worldwide safety standar EN62368-1:2014+A11, UL	JS, TUV/GS, EN55032 Class B, FCC Class B,

Technical Specific	cations				
AC Adapter 65 Watt Smart	Dimensions (H x W x D)	<ul> <li>3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm)</li> <li>0.55 lb (250 g) max</li> <li>(Not including power cord. Power cord varies by country.)</li> <li>100 ~ 240VAC</li> </ul>			
nPFC Standard Barrel 4.5mm Right Angle 1.8m	Weight Input				
	mput	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac		
		Input frequency range	47 ~ 63 Hz		
		Input AC current	47 ~ 65 H2 Max. 1.7 A at 90 Vac		
	Output	Output power	65W		
	output	DC output	19.5V		
		Hold-up time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input		
		Output current limit	<11.0A		
	Connector	4.5mm Barrel Type			
	Environmental Design	Operating temperature	32°F to 95°F (0°to 35°C)		
		Non-operating (storage) temperature	-4°F to 185°F (-20°to 85°C)		
		Altitude	0 to 16,400 ft (0 to 5000m)		
		Humidity	20% to 95%		
		Storage Humidity	10% to 95%		
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EM and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC			
RH 42Whr Long Life	Weight	0.18 kg (0.397 lb)			
Polymer Fast Charge 3 cell Battery <sup>1</sup>	Cells/Type	3cell Lithium-Ion Polymer cell / 545974			
cell ballery	Energy	Voltage	11.4V		
		Amp-hour capacity	3.752Ah		
		Watt-hour capacity <sup>1</sup>	42.75Wh		
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)		
		Operating (Discharging)	14° to 122° F (-10° to 60° C)		
		Optional Travel Battery Available	Νο		

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

### AUDIO

HD Stereo Codec	Realtek ALC3247
Audio I/O Ports	Headset connector supports a CTIA style headset and is re-taskable as a Microphone-in or
	Headphone-out port
Internal Speaker Amplifier	ALC 3247 has Embedded Class-D 2W Stereo Amplifier
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio
Sampling	streams to be sent to/from the front and rear jacks or integrated speaker.
Wavetable Syntheses	Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1
	kHz:
	Internal SPK/Headphone/External MIC
	24bit,48000Hz:
	Digital MIC
Analog Audio	Support 3.5mm Headset: CTIA only and Headphone-out
# of Channels on Line-Out	We do not support Line-Out
Internal Speaker	Yes

#### **FINGERPRINT READER**

Sensor vendor	ELAN 80ST
Sensor type	Capacitive
DPI resolution	508 DPI
Scan area	80x80 pixels
False Rejection Rate	<3%
False Acceptance Rate	< 0.001%
Mobile Voltage Operation	2.7~3.6V
Operating Temperature	-20°C - +80°C
Current Consumption Image	35mA peak
Low Latency Wait For Finger	900uA
Capture Rate	Capture Rate: 50 frame/sec
ESD Resistance	IEC 61000-4-2 4B (+15KV)
<b>Detection Matrix</b>	508 dpi / 4x4mm sensor area

### **ENVIRONMENTAL DATA**

ENVIRUNMENTAL DATA	· · · · · ·				
Eco-Label Certifications &	This product has received or is in the process of being certified to the following approvals and may				
declarations	be labeled with one or more of these marks:				
	IT ECO declaration				
	US ENERGY STAR	®			
	US Federal Energy	yy Management Program (FEI	MP)		
	<ul> <li>EPEAT<sup>a</sup> Gold regi</li> </ul>	stered in the United States. S	ee http://www.epeat.net for registration		
	status in your co	untry.			
	<ul> <li>TCO Certified</li> </ul>				
	China Energy Cor	nservation Program (CECP)			
	China State Envir	ronmental Protection Admini	stration (SEPA)		
	Taiwan Green Ma	ark			
	Korea Eco-label				
	Japan PC Green L	ahel*			
Sustainable Impact	Ocean-bound plastic in s	speaker			
Specifications	• 5% post-consumer recy	-			
• • • • • • • •	• 50% recycled metal				
	Low halogen				
	-	ated cushions are 100% susta	ainably sourced and recyclable		
	-		inably sourced and recyclable		
	Bulk packaging available				
System Configuration			nd Declared Noise Emissions data for the		
- <b>-</b>	-	on a "Typically Configured N			
Energy Consumption					
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Sort	5.292 W	5.34 W	5.304 W		
idle)					
Normal Operation (Long	0.948 W	0.984 W	0.96 W		
idle)					
Sleep	0.948 W	0.984 W	0.96 W		
Off	0.396 W	0.42 W	0.396 W		
	NOTE:				
	Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model				
	family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S.				
	Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model				
	family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is				
	for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a				
	Microsoft Windows <sup>®</sup> oper	ating system.			
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short					
idle)	18.1 BTU/hr	18.3 BTU/hr	18.1 BTU/hr		
Normal Operation (Long					
idle)	3.2 BTU/hr	3.4 BTU/hr	3.3 BTU/hr		



Sleep	3.2 BT	U/hr	3.4 BTU/hr		3.3 BTU/hr
Off	1.4 BTU/hr		1.4 BTU/hr		1.4 BTU/hr
	* <b>NOTE:</b> Heat attained for o	•	calculated based on the	measured watts, as	suming the service level is
Declared Noise Emissions		Sound Powe	r	Sound P	Pressure
(in accordance with		(L <sub>WAd</sub> , bels)		(L <sub>pAm</sub> , d	
ISO 7779 and ISO 9296)				- <b>F</b> ,	
Typically Configured – Idle		2.6		13.3	
Fixed Disk – Random writes		2.9		21	.5
Optical Drive – Sequential reads		3.5		29.6	
Longevity and Upgrading	-		ded, possibly extending nts contained in the	its useful life by seve	eral years. Upgradeable
	Spare parts a production.	re available 1	throughout the warranty	period and or for up	to "5" years after the end of
Additional Information	<ul> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.</li> <li>This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net</li> <li>Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043.</li> <li>This product is 92.8% recycle-able when properly disposed of at end of life.</li> </ul>				
Packaging Materials	External:	PAPER/Cor	rugated		230 g
		PAPER/ Pa	perboard		51 g
		PAPER/Molded Pulp			72 g
	Internal:			9 g	
	The plastic packaging material contains at least 0.0% recycled content.				
	The corrugated paper packaging materials contains at least 53.1% recycled content.				
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.				
	We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances— including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.				
	We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the				



	scope of the commitment to include further restricted substances as regulations continue to evolve.
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):         • Asbestos         • Certain Azo Colorants         • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics         • Cadmium         • Chlorinated Hydrocarbons         • Chlorinated Paraffins         • Bis(2-Ethylhexyl) phthalate (DEHP)         • Benzyl butyl phthalate (BBP)         • Dibutyl phthalate (DBP)         • Dibutyl phthalate (DBP)         • Formaldehyde         • Halogenated Diphenyl Methanes         • Lead corbonates and sulfates         • Lead and Lead compounds         • Mercuric Oxide Batteries         • Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.         • Ozone Depleting Substances         • Polybrominated Biphenyls (PBBs)         • Polybrominated Biphenyl (PCB)
	<ul> <li>Polychlorinated Terphenyls (PCT)</li> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>Radioactive Substances</li> <li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
Packaging Usage	<ul> <li>HP follows these guidelines to decrease the environmental impact of product packaging:</li> <li>Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>Design packaging materials for ease of disassembly.</li> <li>Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>



End-of-life Management and Recycling	<ul> <li>HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</li> <li>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 web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.</li> </ul>
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	<ul> <li>Percentage of ocean-bound plastic contained in each component varies by product</li> <li>Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li> <li>External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li> <li>100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li> <li>Fiber cushions made from 100% recycled wood fiber and organic materials.</li> <li>Plastic cushions are made from &gt;90% recycled plastic.</li> <li>Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.</li> </ul>

### **COUNTRY OF ORIGIN**

China



DOCKING (Sold Separately) Docking station model #1	HP Thunderbolt 120W G4 Dock
Total number of supported displays (incl. the notebook display)	4
Max. resolutions supported	Quad 4K @60Hz Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res
Dock Connectors	mode
Technical limitations	2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode Maximum resolution and display support is dependent on the maximum capability of the notebook.
	Thunderbolt Hosts: Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt boot
	Thunderbolt host. Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz Non-Thunderbolt hosts:
	The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is
	<ul> <li>(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port</li> <li>Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2)</li> <li>5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz + (1) 4K UHD @ 30Hz.</li> </ul>
Docking station model #2	HP Thunderbolt 280W G4 Dock
Total number of supported displays (incl. the notebook display)	4
Max. resolutions supported	Quad 4K @60Hz Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode
Dock Connectors	2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode
<b>Technical limitations</b>	Maximum resolution and display support is dependent on the maximum capability of the notebook. Thunderbolt Hosts:
	Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt host.
	Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz Non-Thunderbolt hosts:
	The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is
	<ul> <li>(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port</li> <li>Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2)</li> <li>5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz + (1) 4K UHD @ 30Hz.</li> </ul>
Docking station model #3	HP USB-C Dock G5



3
Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)
1xHDMI, 2xDP
Maximum resolution and display support is dependent on the maximum capability of the notebook.
Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode.
Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode
The highest resolution for a non-Thunderbolt host in Multi-function mode is a single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.
HP USB-C/A Universal Dock G2
3
Dual 4K @ 60Hz Single 5K @ 60Hz
1xHDMI, 2xDP
Maximum resolution and display support is dependent on the maximum capability of the notebook.
The best resolution for dual or triple displays is 4K UHD@ 60Hz.
For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host.



# QuickSpecs

Туре	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Cases	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA
	HP Renew Business 14.1 Laptop Bag	ЗЕ5Ғ9АА
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Reversible 13.3 Sleeve	7ZE82AA
Docking	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt 120W G4 Dock	4J0A2AA
	HP Thunderbolt 280W G4 Dock	4JOG4AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adaptor	HP USB-C to RJ45 Adapter G2	4Z527AA
Adapter	HP USB 3.0 to Gigabit RJ45 Adapter G2	42527AA 42727AA
	HP HDMI to VGA Adapter	42727AA H4F02AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA



	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 155 Wired Mouse and Keyboard Combo	5B8COAA#ACJ
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
	HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB Premium Wireless Mouse	1JR31AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power	HP 45W USB-C LC AC Power Adapter	1MZ01AA
	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
	HP 90W 4.5 mm Smart AC Power Adapter	H6Y90AA
Commodity	HP USB DVD-Writer EXT ODD	F2B56AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA



# Change Log

Date of change:	Version History:		Description of change:	
March 30, 2023	V1 to V2	Added	Battery life and updated At a Glance section	
April 5, 2023	V2 to V3	Updated	Webcam section	
May 18, 2023	V3 to V4	Updated	Storage and Drives section	
	V4 to V5			

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