Overview

HP Dragonfly 13.5 inch G4 Notebook PC



Left

- 1. Ambient Light and Color Sensor
- 2. IR LED & Cam
- 3. Webcam
- 4. Webcam LED
- NFC Sensor

- 6. Clickpad
- 7. LED indicator
- **8.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- 9. Nano SIM card slot (WWAN Configurations Only)
- 10 HDMI 2.0

1. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

Overview



Right

- 1. Power Button Key
- 2. Speakers
- 3. Audio Combo Jack
- **4.** SuperSpeed USB Type-A 5Gbps signaling rate (Charging port) (USB 3.2 Gen 1)
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- **5.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- 6. LED indicator
- 7. Nano Security Lock Slot (Lock sold separately)

Overview

At a Glance

- Preinstalled with Windows 11 versions or FreeDOS
- A new lightweight clamshell ultra slim design that starts at less than 1kg.
- The Elite Dragonfly G4 offers a choice of colors: Slate Blue or Natural Silver
- New 3:2 aspect ratio screen reduces the need to scroll by showing more vertical content than 16:9. Both touch and nontouch
- panels are offered."
- 13th Generation Intel® Core™ i5, i7 U series
- New 5MP camera with HP Auto Frame allows you around a little without losing viewers' attention during video calls
- New LPDDR5 memory (up to 32GB) and PCI Gen4 SSDs provide fast access to your work.
- Choice of displays:
 - 34.3 cm (13.5") diagonal, BV WUXGA+ (1920x1280), WLED-backlit, 400 nits, 100% sRGB, non-touch with HP Eye Ease 34.3 cm (13.5") diagonal, AG WUXGA+ (1920x1280), WLED-backlit, 1000 nits, 100% sRGB, HP Sure View Reflect, non-touch with HP Eye Ease
 - 34.3 cm (13.5") diagonal, BV WUXGA+ (1920x1280), WLED-backlit, 400 nits, 100% sRGB, touch with HP Eye Ease 34.3 cm (13.5") diagonal, AG WUXGA+ (1920x1280), WLED-backlit, 400 nits, 100% sRGB, touch with HP Eye Ease 34.3 cm (13.5") diagonal, BV WUXGA+ (1920x1280), WLED-backlit, 1000 nits, 100% sRGB, HP Sure View Reflect, touch with HP Eye Ease
 - 34.3 cm (13.5") diagonal, 3K2K, OLED (3000x2000), 400 nits, 100% DCI P3, HP Eye Ease
- Choose from 45Whr or 68Whr battery options
- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense.
- Larger Clickpad surface for easier, more intuitive input
- Connectivity with optional Intel® 5000 5G/WWAN available world-wide, and Thunderbolt™ Docking (Dock sold separately)
- Undergoes MIL-STD 810H tests¹
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support all HP docking options including the HP Universal Dock G5
- Can be wiped up to 1000 times with common household cleaning wipes²
- 1. MIL-STD 810H 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 https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW

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



Technical Specifications

PRODUCT NAME

HP Dragonfly 13.5 inch G4 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 11 Pro ¹

Windows 11 Pro Education 1

Windows 11 Home - HP recommends Windows 11 Pro for Business1

Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business¹

Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing

Agreement) 1

Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) 1,2

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.

PROCESSORS

Processor	Cores	Number of	Number of	Threads	L3 Cache	Max Turbo Frequency		Base Frequency		Intel SIPP/vPro® Enterprise	Intel vPro® Essentials
		P-cores	E-cores		Cacile	P-	E-	P-	E-		
						cores	cores	cores	cores		
Intel® Core™	10	2	8	12	12 MB	5.2	3.9	1.8	1.3	х	
i7-1365U						GHz	GHz	GHz	GHz		
Intel® Core™	10	2 8	0	12	12 12 MB	5.0	3.7	1.7	1.2		Х
i7-1355U			0	12		GHz	GHz	GHz	GHz		
Intel® Core™	10	2 8	0	12	12 12 MB	4.7	3.5	1.6	1.0	х	
i5-1345U			0	12		GHz	GHz	GHz	GHz		
Intel® Core™	10	2	8	12	12 MB	4.6	3.4	1.3	0.9		Х
i5-1335U	10	2	0	12	1 Z MD	GHz	GHz	GHz	GHz		^

- 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.



Technical Specifications

- 5. Intel® 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® 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® Essentials and Enterprise vary. See http://intel.com/vpro

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics 8

Supports

Support HD decode, DX12, HDMI 2.0b 9

- 8. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.
- 9. HDMI cable sold separately



Technical Specifications

DISPLAY

Non-Touch

34.3 cm (13.5") diagonal, WUXGA+, IPS BrightView, micro-edge, 400 nits, sRGB 100% eDP 1.4+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) 9,10

34.3 cm (13.5") diagonal, WUXGA+ ,UWVA anti-glare, micro-edge, 1000 nits, HP Sure View integrated privacy screen, eDP 1.3+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) with HP Eye Ease 9,10,11,12

34.3 cm (13.5") diagonal, 3Kx2K, OLED, IPS BrightView, micro-edge, 400 nits, DCI-P3 100% eDP 1.4+PSR, Ambient Light Sensor + Ambient Color Sensor (3000 x 2000) 9,10

Touch

34.3 cm (13.5") diagonal, WUXGA+, touch, IPS anti-glare, micro-edge, 400 nits, sRGB 100% eDP 1.4+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) 9,10,12

34.3 cm (13.5") diagonal, WUXGA+, touch, IPS BrightView, micro-edge, 400 nits, sRGB 100% eDP 1.4+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) 9,10,12

34.3 cm (13.5") diagonal, WUXGA+,touch, UWVA BrightView, micro-edge, 1000 nits, HP Sure View integrated privacy screen, eDP 1.3+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) 9,10,11,12

34.3 cm (13.5") diagonal, WUXGA+, touch, IPS BrightView, micro-edge, 400 nits, sRGB 100% eDP 1.4+PSR, Ambient Light Sensor + Ambient Color Sensor (1920 x 1280) 9,10,12

Display Size (Diagonal)

13.5" 34.3 cm (13.5")

- 9. HD content required to view HD images.
- 10. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 11. 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.
- 12. Actual brightness will be lower with touchscreen or HP Sure View.



DOCKING (Sold Separately)

Docking station model #1HP Thunderbolt 120W G4 DockDocking station model #2HP Thunderbolt 280W G4 Dock

Docking station model #3 HP USB-C Dock G5

Docking station model #4 HP USB-C/A Universal Dock G2 For additional aftermarket options and docking specs please see page 38.

STORAGE AND DRIVES

Primary Storage

2 TB PCIe® NVMe™ TLC 2280 Solid State Drive13

1 TB PCIe® NVMe™ TLC 2280 Self Encrypted OPAL2 Solid State Drive 13

1 TB PCIe® NVMe™ TLC 2280 Solid State Drive 13

512 GB PCIe® NVMe™ TLC 2280 Self Encrypted OPAL2 Solid State Drive 13

512 GB PCIe® NVMe™ TLC Solid State Drive 13

512 GB PCIe® NVMe™ Value M.2 SSD 13

256 GB PCIe® NVMe™ Value M.2 SSD 13

256 GB PCIe® NVMe™ 2280 Self Encrypted OPAL2 Solid State Drive 13

13. 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.

MEMORY

Maximum Memory

32 GB LPDDR5-6400 SDRAM 14

Memory

16 GB LPDDR5-6400 SDRAM ¹⁴ 32 GB LPDDR5-6400 SDRAM ¹⁴

Memory Slots

LPDDR5, system runs at 6400 ^{14,15} Supports Dual Channel Memory ^{14,15} Memory soldered down

14. 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.

15. All slots are non-accessible / non-upgradeable.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® Garfield Peak 2 AX211 Wi-Fi 6E + Bluetooth®5.3 M.2 1216 160MHz CNVi World-Wide WLAN Wireless Card¹⁶
Intel® Garfield Peak 2 AX211 Wi-Fi 6E + Bluetooth®5.3 M.2 1216 vPro 160MHz CNVi World-Wide WLAN Wireless Card^{16,17}

WWAN

Intel® 5000 5G Solution WWAN ^{18,19}
Intel® XMM 7560 R+ LTE-Advanced Pro WWA ¹⁸

NFC

Near Field Communication (NFC) module 20

Miracast

Native Miracast Support 21

- 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. For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled WLAN card and discrete TPM 2.0 are required. See https://www.intel.com/content/www/us/en/architecture-and-technology/vpro/vproplatform-general.html
- 18. 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 conditions, and other factors. 4G LTE not available on all products, in all regions.
- 19. Intel 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- 20. Sold separately or as an optional feature.
- 21. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
Microphone/Headphone Combo Audio Jack

Camera

5MP MIPI-RAW Infrared with HP Camera Privacy Key

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, Spill-resistant keypad and optional backlit 22

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

- F1 Display Switching
- F2 Sure View or Blank
- F3 Brightness Down
- F4 Brightness Up
- F5 Speaker Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Backlight Toggle (for backlit keyboard) or Blank
- F10 Insert
- F11 Airplane Mode
- F12 Programmable Key
- **HP Camera Privacy Key**

Power

Delete



SOFTWARE AND SECURITY

Preinstalled Software

Software

HP Easy Clean²³

HP PC Hardware Diagnostics Windows

mvHP

HP Smart Support 24

HP Services Scan²⁵

HP Connection Optimizer

HP Hotkey Support

HP Support Assistant 26

HP Notifications

HP Privacy Settings

HP Power Manager 27

Microsoft Office sold separately and requires Internet access for activation

Manageability Features

HP Connect 28

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit (download) 29

HP Client Management Script Library (download)

HP Patch Assistant (download) 30

HP Driver Packs (download)

HP Client Catalog (download)

HP Cloud Recovery 31

Security Management

HP Wolf Security for Business 32 includes:

HP Sure Click³³

HP Sure Sense 34

HP Sure Run 35

HP Sure Recover 36

HP Sure Start³⁷

HP Tamper Lock³⁸

HP Sure Admin 39

BIOS

HP BIOSphere Gen6 40

HP Secure Erase 41

Absolute Persistence Module 42

BIOS Update via Network

HP Wake on WLAN

Secured-Core PC Enable 43

TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

HP Fingerprint Sensor 44

Security

TPM

Model: Nuvoton NPCT760HABYX



Technical Specifications

Version: 7.2.3.1 Revision: TPM 2.0

FIPS 140-2 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

- 23. HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.
- 24. 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.
- 25. 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.
- 26. HP Support Assistance requires Windows and Internet Access
- 27. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store
- 28. 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.
- 29. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 30. 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.
- 31. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® 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. Details please refer to: https://support.hp.com/us-en/document/c05115630.
- 32. 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.
- 33. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 34. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- 35. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 36. 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
- 37. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
- 38. HP Tamper Lock must be enabled by the customer or your administrator.



Technical Specifications

- 39. 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
- 40. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 41. 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™.
- 42. 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/
- 43. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 44. HP Fingerprint sensor is an optional feature that must be configured at purchase.



POWER

Power Supply

HP 100W+10W USB-C®+USB-A Slim Straight Kenting AC Power Adapter ⁴⁵ HP Smart 65 W USB Type-C® adapter ⁴⁵ HP Smart 65 W Slim USB Type-C® adapter ⁴⁵

Battery

45Whr Long Life Polymer Fast Charge 4 cell Battery 46,47,48 68Whr Long Life Polymer Fast Charge 6 cell Battery 46,47,48

Power Cord

3-wire plug - 1m 45

Battery Life

Up to XX 49

- 45. Availability may vary by country.
- 46. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 47. 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.
- 48. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 and 100 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 49. 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 Weightt ⁵⁰ 2.2 lb 0.99 kg

Product Dimensions (W x D x H)

11.7 x 8.67 x 0.64 in 29.74 x 22.04 x 1.64 cm

50. Weight will vary by configuration. Does not include power adapter.



Technical Specifications

PORTS/SLOTS

- 2 Thunderbolt™ 4 with USB4 Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) 48
- 1 SuperSpeed USB Type-A 5Gbps signaling rate (Charging port)
- 1 Headphone/microphone combo jack
- 1 HDMI 2.0 49
- 1 Nano Security Lock Slot (Lock sold separately)
- 1 nano SIM card slot (WWAN Configurations Only) 50
- 48. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- 49. HDMI cable sold separately.
- 50. SIM slot is not user accessible without WWAN configuration.

SERVICE AND SUPPORT

1-year warranty 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.⁵¹

51. 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.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements

(AC Power)

Nominal Operating Voltage AC 20V -> 68W battery

AC 15V -> 45W battery

Average Operating Power

Integrated graphics Yes
Discrete Graphics N/A

Max Operating Power UMA<65W

Temperature

Operating 32° to 95° F (0° to 35° C) (not writing optical) Non-operating 41° to 95° F (5° to 35° C) (writing optical)

Relative Humidity

Operating 32° to 95° F (0° to 35° C) (not writing optical)

Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature

Shock

Operating 40 G, 2 ms, half-sine Non-operating 200 G, 2 ms, half-sine

Random Vibration

Operating 1.043 grams
Non-operating 3.5 grams

Altitude (unpressurized)

Operating -50 to 10,000 ft (-15.24 to 3,048 m)
Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard

Certifications

Regulatory Model Number HSN-I59C CSA/UL 62368-1 Yes ENERGY STAR® Yes 52

EPEAT® Gold in the United States 53

FCC/ICES/CISPR/VCCI Yes
CE MARKING Yes
GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes Ukraine NSoC/TEC Yes **EAEU Compliance** Yes Saudi Arabian Compliance Yes TC0 Yes Low Blue Light Yes **WW RoHS** Yes



- 52. Configurations of the HP Dragonfly 13.5 inch G4 Notebook PC that are ENERGY STAR® qualified are identified as HP Dragonfly 13.5 inch G4 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov.
- 53. 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.

13.5" WUXGA+ (1920 x 1280) BrightView UWVA WLED+LBL sRGB NB2Y 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel

 Outline Dimensions (W x H x D)
 290.190 x 199.730 (max)

 Active Area
 284.890 x 189.930 (typ)

Weight 200 (max)

Diagonal Size 13.5

Surface Treatment Bright View

Touch Enabled No

Contrast Ratio1500:1 (typ)Refresh Rate60 HzBrightness400 nits1

Pixel Resolution - Format 1920 x 1280 (WUXGA+)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage SRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 150nits max/ 200nits max)

on (W, EBL@ 1.42 (max) / 1.71 (max)

13.5" WUXGA+ (1920 x 1280) Anti-Glare UWVA WLED+LBL sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus bent LCD Panel

 Outline Dimensions (W x H x D)
 290.200 x199.970 (max)

 Active Area
 284.890 x 189.930 (typ)

Weight 225 (max)
Diagonal Size 13.5
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1500:1 (typ)Refresh Rate60 HzBrightness1000 nits1

Pixel Resolution - Format 1920 x1280 (WUXGA+)

Backlight WLED **Pixel Resolution** RGB



Color Gamut Coverage SRGB 100%

Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light Yes

Power Consumption (W. EBL@ NA

150nits max/ 200nits max)

13.5" 3k2k

(3000x+G64:G882000)
BrightView OLED UWVA
DCI-P3 100percent cg
400nits eDP 1.4+PSR NBZ2
ultraslim Touch

Outline Dimensions (W x H x D) 289.430 x 199.620 (max)

Active Area 285.300 x 190.200 (typ) **Weight** 154 (max)

Diagonal Size 13.5

Surface Treatment BrightView

Touch Enabled No

Contrast Ratio 100,000:1(typ)

Refresh Rate 60 Hz **Brightness** 400 nits

Pixel Resolution - Format 3000 x 2000 (3k2k)

Backlight OLED
Pixel Resolution RGB

Color Gamut Coverage DCI P3 100%

Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light Yes

Power Consumption (W, EBL@ 150nits max/ 200nits max)

4.15 (max) / 4.93 (m+H88+G85:G88

13.5" WUXGA+ (1920 x 1280) Anti-Glare UWVA WLED+LBL sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus bent LCD Panel Touch

Outline Dimensions (W x H x D) 290.200 x199.970 (max)

 Active Area
 284.890 x 189.930 (typ)

 Weight
 225 (max)

Diagonal Size 13.5

Surface Treatment Bright View

Touch Enabled Yes¹

Contrast Ratio1500:1 (typ)Refresh Rate60 HzBrightness1000 nits1

Pixel Resolution - Format 1920 x1280 (WUXGA+)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%



Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light

Power Consumption (W, EBL@

150nits max/ 200nits max)

13.5" WUXGA+ (1920 x 1280) Anti-Glare UWVA WLED+LBL sRGB NB2Y 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel Touch **Outline Dimensions (W x H x D)** 290.190 x 199.730 (max)

Yes

NA

Active Area 284.890 x 189.930 (typ)

Weight 200 (max)

Diagonal Size 13.5

Surface Treatment Anti-Glare

Touch Enabled Yes¹

Contrast Ratio 1500:1 (typ)
Refresh Rate 60 Hz
Brightness 400 nits¹

Pixel Resolution - Format 1920 x 1280 (WUXGA+)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 150nits max/ 200nits max)

1.42 (max) / 1.71 (max)

13.5" WUXGA+ (1920 x 1280) BrightView UWVA WLED+LBL sRGB NB2Y 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel Touch

 Outline Dimensions (W x H x D)
 290.190 x 199.730 (max)

 Active Area
 284.890 x 189.930 (typ)

Weight 200 (max)

Diagonal Size 13.5

Surface Treatment Bright View

Touch Enabled Yes¹

Contrast Ratio 1500:1 (typ)
Refresh Rate 60 Hz
Brightness 400 nits¹

Pixel Resolution - Format 1920 x 1280 (WUXGA+)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%

Color Depth 8



Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 150nits max/ 200nits max)

1.42 (max) / 1.71 (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 2230 PCIe NVMe Form Factor

Value

Form Factor M.2 2230
Capacity 256 GB
NAND Type Value

Interface2000 MB/s ±20%Maximum Sequential Read900 MB/s ±20%Maximum Sequential Write500118192

Logical Blocks 32° to 158°F (0° to 70°C) [ambient temp]

Features M.2 2230

256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value Solid State Drive Form Factor M.2 2280
Capacity 256 GB
NAND Type Opal2 Value
Interface 2000 MB/s ±20%
Maximum Sequential Read 900 MB/s ±20%
Maximum Sequential Write 500,118,192

Logical Blocks 32° to 158°F (0° to 70°C) [ambient temp]

Features M.2 2280

SSD 512GB 2280 PCIe NVMe Value Form Factor M.2 2280

Capacity 512GB

NAND Type Value

Interface PCIe NVMe

Maximum Sequential Read 2200 MB/s ±20%

Maximum Sequential Write 1000 MB/s ±20%
Logical Blocks 1000215216

Features Pyrite 2.0, TRIM; L1.2

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell

Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,216FeaturesPyrite 2.0, TRIM; L1.2



512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive

Form Factor M.2 2280
Capacity 512 GB
NAND Type Opal2 TLC
Interface PCIe NVMe Gen4X4

Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,216FeaturesPyrite 2.0, TRIM; L1.2

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell

Form Factor M.2 2280
Capacity 1 TB
NAND Type TLC

 Interface
 PCIe NVMe Gen4X4

 Maximum Sequential Read
 6400 MB/s ±20%

 Maximum Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

1TB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive Form Factor M.2 2280
Capacity 1 TB
NAND Type Opal2 TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264FeaturesPyrite 2.0, TRIM; L1.2

SSD 2TB 2280 PCIe-4x4 NVMe Three Layer Cell

Form Factor M.2 2280
Capacity 2 TB
NAND Type TLC

Interface

Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks4,000,797,360FeaturesPyrite 2.0; TRIM; L1.2

PCIe NVMe Gen4X4



NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E + Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 M.2 IEEE 802.11b 160MHz CNVi World-wide IEEE 802.11g WLAN vPro Wireless Card¹ IEEE 802.11n 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 Security² • IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 certification • IEEE 802.11i WAPI **Network Architecture** Ad-hoc (Peer to Peer) Models Infrastructure (Access Point Required)



Roaming

IEEE 802.11 compliant roaming between access points

Output Power³ • 802.11b: +17dBm minimum

802.11g: +16dBm minimum802.11a: +17dBm minimum

802.11n HT20(2.4GHz): +14dBm minimum
802.11n HT40(2.4GHz): +13dBm minimum
802.11n HT20(5GHz): +14dBm minimum
802.11n HT40(5GHz): +13dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum
802.11ax HE40(2.4GHz): +12dBm minimum
802.11ax HE80(5GHz): +10dBm minimum

• 802.11ax HE160(5GHz) : +10dBm minimum

Power Consumption • Transmit mode 2.0 W

• Receive mode 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mW

· Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ • 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 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)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio OFF; LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

Frequency Band 2402 to 2480 MHz

Number of AvailableLegacy : 0~79 (1 MHz/CH)ChannelsBLE : 0~39 (2 MHz/CH)

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 MbpsThroughputBLE: 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 with

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 Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management ETS 300 328, ETS 300 826

Certifications Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles
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).



Intel® AX211 Wi-Fi 6E + Wireless LAN Standards IEEE 802.11a
Bluetooth® 5.3 M.2 IEEE 802.11b
160MHz CNVi World-Wide IEEE 802.11g
WLAN non-vPro Wireless IEEE 802.11n
Card¹ IEEE 802.11ac
IEEE 802.11ax
IEEE 802.11d

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 300Mbps802.11ac: 1733Mbps802.11ax: max 2.4Gbps

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certificationWPA3 certificationIEEE 802.11iWAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power ³ • 802.11b: +17dBm minimum

• 802.11g: +16dBm minimum



• 802.11a: +17dBm minimum

802.11n HT20(2.4GHz): +14dBm minimum
802.11n HT40(2.4GHz): +13dBm minimum
802.11n HT20(5GHz): +14dBm minimum
802.11n HT40(5GHz): +13dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum
802.11ax HE40(2.4GHz): +12dBm minimum

802.11ax HE80(5GHz): +10dBm minimum
 802.11ax HE160(5GHz): +10dBm minimum

Power Consumption • Transmit mode 2.0 W

• Receive mode 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mW

• Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity 4 • 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

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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)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio OFF; LED OFF – Radio ON

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Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

Frequency Band 2402 to 2480 MHz

Number of AvailableLegacy : 0~79 (1 MHz/CH)ChannelsBLE : 0~39 (2 MHz/CH)

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**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 with

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

Microsoft Windows Bluetooth Software

Link Topology

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

- 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).



NFC Mirage module (NXP

NPC300 I2C 10mmx17mm) Dimensions (L x W x H)

Chipset NPC300 System interface I2C

> ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

Module 25 mm by 10 mm by 2.0 mm

NFC RF standards ECMA-320 NFCIP-2

NFC Forum Support Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2

ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire

FeliCa

Reader (PCD-VCD) ModeJewel and Topaz cards

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

Card Emulation (PICC-VICC) MIFARE

ModeFeliCaFrequency13.56 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 10-90% operating

5-95% non-operating

Humidity 5-95% non-operation
Supply Operating voltage 4.35 to 5.25 Volts
I/O Voltage 1.8V or 3.3V

Power Consumption

(Booster enable, VBAT= 3.3V,

 $VCC_BOOST = 5V$

Mode Power Consumption, Typical

Polling 7.3 mA

Total 283.8 mA

Detected Test Tag Type 1 Net Module 236.8 mA

Total 288.8 mA

Detected Test Tag Type 2 Net Module 241.8 mA

Total 287.7 mA

Detected Test Tag Type 3 Net Module 240.7 mA

Total 282.3 mA

Detected Test Tag Type 4 Net Module 235.3 mA

Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna

Antenna matching is external to module.



Intel® XMM™ 7560 R+ LTE- Technology/Operating Advanced Pro 1 bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300

(Band 30), 1700/2100 (Band 66), 600 (band 71).

TDD LTE: 2100 (Band 34), 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41), 3500 (Band 42), 3700 (Band 43), 3700 (band 48),

5200 (Band 46 RX only) MHz:

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW

throughput up to 978Mbps; UL-CAT.13 40MHz throughput up to 150Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone GPS/Beidou/Glonass, A-GPS (MS-A, MS-B)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 978 Mbps (Download), 150 Mbps (Upload)

> DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm in all band except B41

LTE B41 HPUE = 26dBm

HSPA+: 23.5 dBm

42 x 30 x 2.3 mm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6 q

Dimensions

(Length x Width x

Thickness)

embedded eSIM Support

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.



Intel® (R) 5G Solution 5000¹

Technology/Operating bands

WCDMA/HSPA+ operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

LTE FDD/TDD operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)

Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)

Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)

Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)

Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)

Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)

Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)

Danid 13. 030 to 043 MHz (UL), 073 to 030 MHz (DL)

Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)

Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

Band 29: 717 to 728 MHz (DL)

Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

Band 32: 1452 to 1496 MHz (DL)

Band 34: 2010 to 2025 MHz (UL/DL)

Band 38: 2570 to 2620 MHz (UL/DL)

Band 39: 1880 to 1920 MHz (UL/DL)

Band 40: 2300 to 2400 MHz (UL/DL)

Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHZ (UL/DL)

Band 43: 3400 to 3800 MHZ (UL/DL)

Band 46: 5150 to 5925 MHZ (DL)

Band 48: 3550 to 3700 MHZ (UL/DL)

Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)

Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

5GNR Sub 6GHZ

n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)

n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)

n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

n38: 2570 to 2620 MHz (UL/DL)



n40: 2300 to 2400 MHz (UL/DL) n41: 2496 to 2690 MHz (UL/DL)

n48: 3550 to 3700 MHZ (UL/DL)

n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

n77: 3300 to 4200 MHz (UL/DL) n78: 3300 to 3800 MHz (UL/DL) n79: 4400 to 5000 MHz (UL/DL)

Wireless protocol standards

5GNR Air Interface 3GPP Rel15 5G NR sub-6

LTE Rel14

20 layers and 2 Gbps downlink (DL) throughput – 4 × 4 MIMO across 5x CA

200 Mbps/uplink (UL) throughput - 40 MHz ULCA and 256 QAM

WCDMA R99,

3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B)

GPS bands GPS: L1 (1575.42MHz)

GLONASS: L1 (1602MHz) BeidouB1(1561.098MHz) Galileo E1 (1575.42) QZSS(1575.42 MHz)

Maximum data rates SA 5G/NR sub-6 Peak: DL4.67Gbps/ UL 1.25Gbps

5G NSA sub 6G : DL: 3.8 Gbps/UL 700Mbps LTE: ue-CategoryDL 19, (DL : 1.6 Gbps) ue-CategoryUL 18 , (UL: 211Mbps)

DC-HSPA+: 42 Mbps (Download), 11.5 Mbps (Upload)

Maximum output power LTE: 23 dBm in all band except B41

LTE B41 HPUE = 26dBm

NR: 23 dBm in all band except n41, n77, n78 and n79

LTE n41, n77, n78 and n79 HPUE = 26dBm

HSPA+: 23.5 dBm

Maximum power 5G Sub 6: 2500 mA

consumption LTE: 1,300 mA (peak); 1100 mA (average)

HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3052-S3 Key B

Weight 8 g

Dimensions 52 mm × 30 mm × 2.3 mm

(Length x Width x

Thickness)

embedded eSIM Support

Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.



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

HP 65W Slim USB-C® **Straight AC Power Adapter Taroko**

Dimensions (H x W x D) 3.819 x 2.106 x 0.827 in (9.7x5.35x2.1cm)

Weight 0.49 lb (220 g) max

(Not including power cord. Power cord varies by country.)

Input 100 to 240 VAC

> **Input Efficiency** Average Efficiency of 25%, 50%, 75%, 100%

> > load condition with 115Vac/230Vac Spec:

5V:81.5% 9V:86.7% 12V:88.0% 15V:89.0% 20V:89.0%

Input frequency range 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output power 5V/15W

> 9V/27W 12V/60W 15V/65W 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® **Environmental Design**

Operating

32°F to 95°F (0°to 35°C) temperature

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

Output

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

EN62368-1:2014+A11, UL 62368-1

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+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB,

Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

AC Adapter 65 Watt nPF Standard USB Type C[®] Straight 1.8m

AC Adapter 65 Watt nPFC Dimensions (H x W x D)

Weight Input 90.0 x 51 x 28.5 mm unit: 250g +/- 10g 100 to 240 VAC

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 65W

DC output 5V/9V/12V/15V/20V **Hold-up time** 5ms at 115 Vac input

Output current limit <8.0A

Connector USB TYPE C®

Environmental Design Operating 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1,

EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1,

SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B. CISPR32 Class B. CCC. NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 100W+10W Slim USB-C+USB-A Straight AC Power Adapter Kenting Dimensions (H x W x D)

Weight Input 136 x 60 x 22 mm unit: 365g +/- 10g 100 to 240 VAC

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5VusbA: 73.62% 5VusbC: 81.5% 9V: 86.7% 12V: 88% 15V: 89%

20V:89%

> 90% efficiency at 100W (20V/5A) output

condition

Input frequency range 47 ~ 63 Hz

Input AC current 1.6 A at 90 VAC and maximum load

Output Output power 110W

DC output 5VusbA/5V/9V/12V/15V/20V

Hold-up time 5ms at 115 Vac input

Output current limit <6.25A

Connector USB TYPE C®

Environmental Design Operating 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 5% to 95% **Storage Humidity** 5% to 95%

EMI and Safety Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1,

EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1,

SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.



45Wh Long Life Polymer

Fast Charge 4 cell Batterv^{1,2} **Weight** 206.8g+/-10g

Cells/Type 4cell Lithium-Ion Polymer cell / 484283

Energy Voltage 7.72V

Amp-hour capacity 5.909Ah Watt-hour capacity 45.6Wh

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 122° F (-10° to 60° C)

Optional Travel Battery No

Available

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

2. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 and 100 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance

68Whr Long Life Polymer Weight
Fast Charge 6 cell Cells/Tv

Battery^{1,2}

eight 300g+/-10g

Cells/Type 6cell Lithium-Ion Polymer cell / 484283

Energy Voltage 11.58V

Amp-hour capacity 5.909 Ah

Watt-hour capacity¹ 68.4Wh

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 No

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
 Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 and 100 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance



AUDIO

HD Stereo Codec Realtek ALC3315

Audio I/O Ports Headset: CTIA only and Headphone-out

Internal Speaker Amplifier Cirrus Logic High-Efficiency Boosted Class D Amplifier

Multi-streaming Capable Playback multi-streaming can be enabled in the audio control panel to allow independent audio.

Following MSFT Behavior

Sampling DAC:44.1k/48kHz

ADC:48kHz

Wavetable Syntheses

Analog Audio Support 3.5mm Headset: CTIA only and Headphone-out

of Channels on Line-Out

Internal Speaker Yes

FINGERPRINT READER

Sensor vendor Synaptics FS7604

Sensor type Capacitive DPI resolution 363DPI

Scan area 7.4x6mm sensor area

False Rejection Rate <1%
False Acceptance Rate 1:50K FAR

Mobile Voltage OperationMobile Voltage Operation: 3.0V to 3.6VOperating TemperatureOperating Temperature: 0~60°C

Current Consumption

Image Current Consumption Image: 100mA Max

Low Latency Wait For

Finger Low Latency Wait For Finger: 260 uA
Capture Rate Capture Rate: <30msec per image

ESD Resistance ESD Resistance: IEC 61000-4-2 4B (+/-15KV) **Detection Matrix** Detection Matrix: 363 dpi / 7.4x6mm sensor area

COUNTRY OF ORIGIN

China



Options and Accessories (Sold separately and availability may vary by country)

DOCKING (Sold Separately)

Docking station model #1

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

Technical limitations

Dock Connectors

HP Thunderbolt 120W G4 Dock

4

Ouad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

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 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

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 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.

Docking station model #2

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dock Connectors

Technical limitations

HP Thunderbolt 280W G4 Dock

4

Quad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

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 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

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 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.



Options and Accessories (Sold separately and availability may vary by country)

Docking station model #3

. .. .

Total number of supported displays (incl. the notebook display)

Max. resolutions supported

Dock Connectors

Technical limitations

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.

3

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.

Docking station model #4

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

Dual 4K @ 60Hz

Single 5K @ 60Hz

Dock Connectors 1xHDMI, 2xDP

Technical limitations Maximum resolution and display support is dependent on the maximum

HP USB-C/A Universal Dock G2

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.



Options and Accessories (Sold separately and availability may vary by country)

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	3E5F9AA
	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 Travel 18L 15.6 Iron Gray Laptop Backpack	6H2D9AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6H2D8AA
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
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	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 155 Wired Mouse and Keyboard Combo	5B8COAA#ACJ



Options and Accessories (Sold separately and availability may vary by country)

	UBARRA ST. I. IVIVII. IAA	2001/244442
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA#AB2
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 320M USB-A Wired Mouse	9VA80AA
Power	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
		1P3K6AA
	HP 65W USB-C LC AC Power Adapter	IPSKOAA
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:	
	V1 to V2		

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