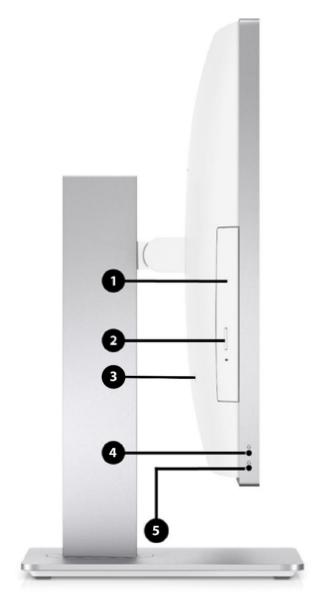
HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One



Front

- 1. Camera (optional)
- 2. HP Sure View Gen3 Integrated Privacy Screen (optional)
- 3. RFID reader (optional)

HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

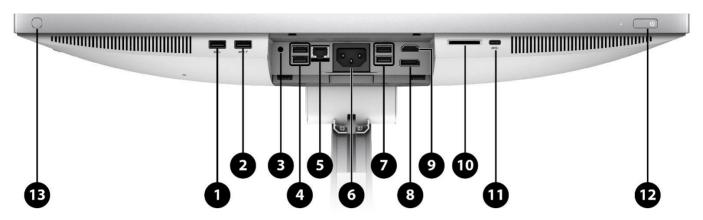


Side

- 1. Optical disc drive (optional)
- 2. Optical disc drive eject button (optional)
- 3. Standard lock slot (10 mm)

- 4. Universal audio jack with CTIA headset support
- 5. Headphone connector

HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One



Bottom components and rear ports (behind security cover)

- 1. USB 3.1 Gen 2 Type-A port
- 2. USB 3.1 Gen 2 Type-A port (charge support up to 5V/1.5A)
- 3. Audio line-out connector
- 4. USB 3.1 Gen 1 Type-A ports (2)
- 5. RJ-45 (network) jack
- 6. Power connector

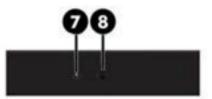
- 7. USB 3.1 Gen 2 Type-A ports (2) wake capable
- 8. HDMI 2.0a connector
- 9. Dual-Mode DisplayPort™1.2 (DP++)
- 10. SD card reader 4.0 (optional)
- 11. USB 3.1 Type-C™ Gen 2 port (charge support up to 5V/3A)
- 12. Dual-state power button
- 13. HP Sure View Button (optional)



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One



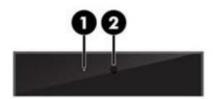




Infrared (IR) and dual facing camera (optional)

- 1. Camera light
- 2. IR camera light
- 3. Full High Definition (FHD) camera
- 4. IR camera

- 5. Rear camera adjustment wheel
- 6. Digital microphones
- 7. Camera light
- 8. FHD camera





Full High Definition (FHD) camera (optional)

- 1. Camera light
- 2. FHD camera

3. Digital microphones

Features

AT A GLANCE

- All-in-One form factor (touch)
- Sanitizable with germicidal wipes every shift, every day¹
- Optional HP Sure View Gen3 Integrated Privacy Screen
- Optional, integrated dual-band RFID reader and and biometrics for integrated single sign-on support
- Optional, integrated RFID Asset Tag for Inventory tracking
- Intel® Q370 chipset
- Intel® 9th generation and select 8th Core[™] processors
- Intel® vPro™ Technology available with Intel® Core™ i3, i5, i7 and i9 processors
- Processor support 54W/65W
- Integrated Intel® UHD Graphics
- Windows 10
- Intel® Ethernet Connection I219LM GbE LOM integrated network connection
- EN/EN 60601-1-2:2015 compliant
- Skype for Business® certified
- Vidyo Ready for telemedicine²
- Optional dual-facing and IR camera supports Windows Hello
- Available Stand Options: Adjustable Height Stand or No Stand (VESA mountable)
- DDR4 Synchronous Dynamic Random Access Memory (SDRAM)
- HP Sure Start Gen5³
- HP Sure Sense⁶
- HP Manageability Integration Kit Gen3⁴
- ENERGY STAR® certified. EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country⁷
- TCO Edge for AiO
- PC chassis and all internal components and modules are manufactured with low halogen content⁵
- Protected by HP Services, including warranties up to 3-3-3 (terms and conditions vary by country; certain restrictions and exclusions apply)
- 1. Based on HP's internal analysis as of Nov. 1, 2017 of AiOs tested to simulate up to 10,000 wipes with germicidal towelettes over a 3-year period. See user guide for cleaning instructions. The HP EliteOne 800 G5 23.8-in Healthcare Edition AiO is not intended for use in diagnosis, cure, treatment or prevention of disease or other medical conditions.
- 2. Vidyo not included sold separately
- 3. HP Sure Start Gen5 is available on HP Elite and HP Pro 600 products equipped with Intel® 8th generation processors.
- 4. HP Manageability Integration Kit Gen3 can be downloaded from http://www.hp.com/go/clientmanagement.
- 5. External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- 6. Requires Windows 10. See product specifications for availability
- 7. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

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



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

Features

OPERATING SYSTEMS

Preinstalled Microsoft Windows® 10 Pro¹

Microsoft Windows® 10 Pro (National Academic License)2

Microsoft Windows® 10 Home1

Microsoft Windows® 10 Home Single Language¹

Windows® 10 IoT Enterprise LTSC 2018

FreeDos 3.0

Web-supported only Microsoft Windows® 10 Enterprise 64¹

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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary: see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

NOTE: Your product does not support Windows 8 or Windows 7

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



QuickSpecs

Features

CHIPSET

Intel® Q370

PROCESSORS

Intel® 9th Generation Core™ Processors

- *Intel® Core™ i9 9900 processor with Intel® UHD Graphics 630 (3.1GHz, up to 4.9 GHz with Intel® Turbo Boost,16MB cache, 8 cores) 65W¹ Supports Intel® vPro™Technology
- *Intel® Core™ i7 9700 processor with Intel® UHD Graphics 630 (3.0 GHz, up to 4.8 GHz with Intel® Turbo Boost, 12 MB cache, 8 cores) 65W^{1,2} Supports Intel® vPro™ Technology
- *Intel® Core™ i5 9600 processor with Intel® UHD Graphics 630 (3.1 GHz, up to 4.6 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores)^{1,2} Supports Intel® vPro™Technology³
- *Intel® Core[™] i5 9500 processor with Intel® UHD Graphics 630 (3.0 GHz, up to 4.4 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores)^{1, 2} Supports Intel® vPro™Technology³
- *Intel® Core™ i3 9300 processor with Intel® UHD Graphics 630 (3.7 GHz, 8 MB cache, 4 cores)¹
- *Intel® Core™ i3 9100 processor with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 cores)¹
- *Intel® Pentium® Gold G5620 processor with Intel® UHD Graphics 630 (4.0 GHz, 4 MB cache, 2 cores)1
- *Intel® Pentium® Gold G5600 processor with Intel® UHD Graphics 630 (3.9 GHz, 4 MB cache, 2 cores)1
- *Intel® Pentium® Gold G5420 processor with Intel® UHD Graphics 610 (3.8 GHz, 4 MB cache, 2 cores)1
- *Intel® Celeron® G4930 processor with Intel® UHD Graphics 610 (3.2 GHz, 2 MB cache, 2 cores)

Intel® 8th Generation Core™ Processors

- *Intel® Core™ i7 8700 vPro™ processor with Intel® UHD Graphics 630 (3.2 GHz, up to 4.6 GHz with Intel® Turbo Boost, 12 MB cache, 6 cores) 65W¹,² Supports Intel® vPro™Technology³
- ***Intel® Core™ i5 8500 vPro™ processor with Intel® UHD Graphics 630 (3.2 GHz, up to 4.6 GHz with Intel® Turbo Boost, 12 MB cache, 6 cores) 65W^{1,2} Supports Intel® vPro™Technology³
- *Intel® Core™ i3 8100 processor with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 cores)1
- 1: Multi-core 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.
- 2. Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.
- 3. Some functionality of vPro technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependant on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with with future "virtual appliances" is yet to be determined.

NOTE: 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.

NOTE: 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. **NOTE:** Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.



QuickSpecs

Features

GRAPHICS

Integrated Intel® Graphics

Intel® UHD Graphics 630 (integrated on 9th gen Core i9/i7/i5/i3, Pentium® Gold G5600, G5500) Intel® UHD Graphics 610 (integrated on 9th Pentium® Gold G5400, Celeron® G4900)

STORAGE AND DRIVES1

2.5 inch 7200 RPM Hard Disk Drives

500GB SATA 1TB SATA

2.5 inch 5400 RPM Hard Disk Drives

500GB SATA 2TB SATA

2.5 inch Self-encrypting Drives (SED HDD)

500GB 7200RPM 2.5in SED OPAL 2

500GB 7200RPM 2.5in Federal Information Processing Standard (FIPS) SED

2.5 SATA SSD Drives

256GB SATA TLC SSD 512GB SATA TLC SSD

2.5 inch Self-encrypting Drives (SED SSD)

256GB TLC SED SSD OPAL 2 Drive

256GB TLC SED SSD OPAL 2 Drive 2nd

512GB TLC SED SSD OPAL 2 Drive

512GB TLC SED SSD OPAL 2 Drive 2nd

256GB TLC SED SSD 2.5in Federal Information Processing Standard (FIPS) SED

512GB TLC SED SSD 2.5in Federal Information Processing Standard (FIPS) SED

PCIe NMVe SSD Drives

128GB PCIe NVMe TLC SSD

128GB PCIe NVMe TLC SSD 2nd

256GB PCIe NVMe TLC SSD

256GB PCIe NVMe TLC SSD 2nd

512GB PCIe NVMe TLC SSD

512GB PCIe NVMe TLC SSD 2nd

2TB PCIe NVMe TLC SSD

2TB PCIe NVMe TLC SSD 2nd

1TB PCIe NVMe TLC SSD

1TB PCIe NVMe TLC SSD 2nd

128GB PCIe NVMe SSD

128GB PCIe NVMe SSD 2nd

256GB PCIe NVMe SSD

256GB PCIe NVMe SSD 2nd

512GB PCIe NVMe SSD

512GB PCIe NVMe SSD 2nd

PCIe NMVe Self-encrypting Drives (PCIe NVMe SED SSD)

256GB PCIe NVMe TLC SED SSD OPAL 2 Drive

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows 10) of system disk is reserved for the system recovery software.



Features

DISPLAY FEATURES

HP EliteOne 800 G5 Healthcare Edition 23.8-in FHD Display

23.8" diagonal IPS widescreen WLED backlit LCD (1920 x 1080) Discrete Touch Glass covered display HP Sure View Gen 3 (optional)

MEMORY

Maximum

64GB (32GB/slot)

Memory Slots

2 SODIMMs

DDR4-2666 (Transfer rates up to 2666 MT/s)

Dual channel support

Customer accessible/upgradeable

Configurations

4 GB (1 x 4 GB)

8 GB (2 x 4 GB)

8 GB (1 x 8 GB)

16 GB (2 x 8 GB)

16 GB (1 x 16 GB)

32 GB (2 x 16 GB)

32 GB (1 x 32 GB)

64 GB (2 x 32 GB)

512 GB Intel® PCIe® NVMe™ OLC + 32 GB Intel® Optane™

NOTE: Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.

NETWORKING

Wireless LAN

Intel® Wi-Fi 6 AX200 ax 2x2 Wi-Fi® +Bluetooth® M.2 Combo Card non-vPro™ Intel® Wi-Fi 6 AX200 ax 2x2 Wi-Fi® +Bluetooth® M.2 Combo Card vPro™ Intel® 9560 802.11b/g/n/a/ac 2x2 Wi-Fi® Bluetooth® M.2 Combo Card non-vPro™ Intel® 9560 802.11b/g/n/a/ac 2x2 Wi-Fi® +Bluetooth® M.2 Combo Card vPro™ Realtek RTL8822BE ac 2x2 Wi-Fi®+Bluetooth® M.2 Combo Card

Ethernet (RJ-45) Integrated

Intel® I219LM Gigabit Network Connection LOM (standard)

NOTE: Wireless LAN is optional and must be bought at purchase

NOTE: Wireless access point and Internet service required and not included. Availability of public wireless access points limited. **NOTE:** The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the device to communicate with other 802.11ax WLAN devices.



QuickSpecs

Features

AUDIO/MULTIMEDIA

Audio

Integrated Conexant CX5001 codec - up to 24-bit PCM High performance integrated stereo speakers(2.5watt)

High Definition Audio

Integrated
Conexant CX5001

Blu-Ray / DVD

Blu-ray Writer 9.5mm EliteOne AiO*
DVD-ROM 9.5mm EliteOne AiO (DVD-Rom)**
DVD-Writer 9.5mm EliteOne AiO (DVD-Writer)***
HP 9.5mm EliteOne 800 Slim DVD-Writer Drive***

Media Card Reader

SD 4.0 with 5-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I, UHS-II)

Webcams & Mic

Pop-up camera - 2MP FHD camera, up to 30 frames/sec, discrete dual array microphone (Fixed 2MP FHD 1080p)(maximum resolution of 1920 x1080)(optional)

Pop-up camera - 2MP FHD camera with IR camera front-facing and 2nd rear-facing 2MP camera discrete dual array microphone (Dual Camera 480P IR+1080P RGB Fixed/2MP FHD 1080P Fixed)(maximum resolution of 1920x1080)(optional) IR camera (optional) supports Win10 Hello

NOTE: Universal Audio Jack with CTIA headset support (re-taskable for headphone/line out/microphone in/line in)

*NOTE: With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support.

**NOTE: HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.

***NOTE: Don't copy copyright protected material.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard and Mouse Combos

HP USB Keyboard and Mouse Healthcare Edition HP Premium Wireless Keyboard and Mouse

HP Wireless Business Slim Keyboard and Mouse

HP USB Kevboard and Mouse

Keyboards

HP USB Collaboration Wired Keyboard

HP Collaboration Wireless Keyboard

HP USB Business Slim Keyboard

HP USB Business Slim Grey Keyboard

HP USB Business Slim CCID SmartCard Keyboard

HP USB Business Slim Antimicrobial Keyboard*

HP USB Wired Keyboard

HP Wired Keyboard EPEAT®

HP USB PS/2 Washable Standalone Wired Keyboard

HP USB Conferencing Wired Keyboard



QuickSpecs

Features

Mice

HP USB 1000dpi Laser Mouse HP Grey V2 Mouse HP USB Mouse HP USB Antimicrobial Mouse* HP USB Hardened Mouse HP Washable Wired Mouse USB PS/2 HP Optical USB Mouse

Other

HP Mouse Pad HP EliteOne G5 AiO Dust Filter

Adapters and Cables

HP DisplayPort Cable
HP DisplayPort to DVI-D Adapter
HP DisplayPort to HDMI True 4K Adapter
HP DisplayPort to VGA Adapter
HP DVI Cable
HP USB Type-C to Type-A Hub
HP USB to Serial Port Adapter
HP USB-C to USB 3.0 Adapter
HP Type-C to DisplayPort Adapter

Headsets

HP Business Headset v2

*China Only

HP BIOSPHERE

HP BIOS

Key features of the HP BIOS include:

- Deployment and manageability HP BIOS provides several technologies that help integrate the HP EliteOne 800 Healthcare PC into the enterprise, such as PXE, remote configuration, remote control, and BIOS (F10) Setup support for 15 languages.
- Network firmware updates Update your BIOS via hp.com, Windows Update or standardize on a BIOS version hosted on an Enterprise network.
- Stability HP BIOS supports the HP stable product roadmap by releasing only critical BIOS changes to the factory and advanced change notification.
- UEFI specification version 2.6
- Absolute Persistence agent For tracking and tracing services, available in select countries, separate software and purchase of a subscription is required.
- Thermal and power management The HP BIOS provides and enables thermal and power management technologies so component temperatures are managed for high reliability and to assist in operating the HP Business Desktop computer in any enterprise environment.
- Acoustic performance Industry leading acoustic emissions across the range of operating conditions.
- Serviceability HP BIOS provides diagnostic and detailed service information.
- Upgrades and recovery HP BIOS provides numerous ways to upgrade HP Business Desktop computers, including BIOS updates from within Windows (HP FirmwareUpdRec utility), HP Client Manager, and fail-safe recovery. In addition, the HP BIOS Configuration Utility enables replication of BIOS settings within Windows while the Replicated Setup feature provides the same capability within BIOS (F10) Setup. The BIOS Configuration Utility is available from the HP support website.
- HP BIOS uses PKI signing of the BIOS for trusted BIOS upgrades and recovery.



QuickSpecs

Features

Additional HP BIOS Features:

- Power-On password Helps prevent an unauthorized user from powering on the system.
- Administrator password Also known as the setup password, this helps prevent unauthorized changes to the system
 configuration. If the administrator password is not known, the BIOS cannot be updated and changes cannot be made
 to BIOS settings using BIOS Setup or under the OS.
- S5 Maximum Power Savings setting supports EU Lot6 requirement and allows the computer to power down below 0.5W in S5 (when turned off). When S5 Maximum Power Savings feature is enabled below features are turned off:
 - Power to expansion connectors / slots
 - Wake events other than power buttons (such as wake on LAN)
 - USB charging ports
- HP SureStart Gen5
- BIOS Integrity checking Sure Start protection ensures that only trusted BIOS code is executed and not rootkits, viruses and malware. Verification is done upon boot up, shutdown and while On.
- SureStart Gen5 is set by default to automatically repair the BIOS if corrupted or compromised but is policy driven for better manageability.
- Protecting beyond BIOS Integrity checking and repair is extended to other data that should be protected such as network configuration parameters (network name), platform specific information (i.e. system IDs) and other code the system needs to boot.
- Audit enabled System Audit via Sure Start Event Logs capture data such as incident, repair date and time for troubleshooting and investigating.

PORTS/SLOTS

Rear I/O Connectors

- (2) USB 3.1 Gen 1 Type A w/ S4/S5 Wake
- (3) USB 3.1 Gen 2 Type A
- (1) USB 3.1 Gen 2 Type A w/ BC 1.2
- (1) USB 3.1 Gen 2 Type-C DFP w/ 3.0A w/ BC1.2
- (1) LAN RJ45
- (1) DisplayPort 1.2
- (1) HDMI 2.0a
- (1) Audio Line-Out
- (1) SD Card Reader 4.0

Left I/O Connectors

- (1) Headphone
- (1) Headset CTIA UAJ Headset w/o Virtual OMTP

M.2 Socket

- (1) M.2 Socket 1 Type 2230-E
- (1) M.2 Socket 3 Type 2230/80-M
- (1) M.2 Socket 3 Type 2230/42/80-M

Storage

(2) SATA Power/Data Combo



Features

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen5 17

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase 18

Absolute Persistence Module 19

RAID configurations 33

Pre-boot Authentication

HP Wireless Wakeup

Software

HP Native Miracast Support 15

HP LAN-Wireless Protection

HP Hotkey Support - CMIT

HP Recovery Manager

HP Jumpstart

HP Support Assistant 21

HP Noise Cancellation Software

HP Easy Clean 2.0

Buy Office

Manageability Features

HP Driver Packs 22

HP System Software Manager (SSM)

HP BIOS Config Utility (BCU)

HP Client Catalog

HP Manageability Integration Kit Gen3 23

Ivanti Management Suite 24

HP Collaboration Keyboard

Client Security Software

HP Client Security Suite Gen5 including: 25

HP Security Manager ²⁶ (including Credential Manager, HP Password Manager, HP Spare Key)

Power On Authentication

HP Fingerprint Sensor 31

HP Device Access Manager

HP Power On Authentication

Windows Defender 27

HP Sure Run Gen 2

HP Sure View Gen 3

HP Sure Sense³⁵



Features

Security Management

HP BIOSphere Gen5 17

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Secure Erase 18

Pre-boot Authentication

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified) 32

SATA 0.1 port disablement (via BIOS)

Serial, USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)

Support for chassis padlocks and cable lock devices

Integrated hood sensor

HP Sure Click 34

HP Sure Recover Gen 2

HP Sure Start Gen5 30

- 15. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming
- 17. HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
- 18. 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™.
- 19. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit:

http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software

- 21. HP Support Assistant requires Windows and Internet access.
- 22. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 23. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html 24. Ivanti Management Suite subscription required.
- 25. HP Client Security Manager Gen5 requires Windows and is available on select HP Pro and Elite PCs. See product specifications for
- 26. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- 27. Windows Defender Opt In, Windows 10, and internet connection required for updates..
- 30. HP Sure Start Gen5 is available on HP EliteBook products equipped with Intel® 9th generation processors
- 32. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- 33. RAID configuration is optional and requires 2 equivalent hard drives.
- 34. HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.
- 35. HP Sure Sense requires Windows 10. See product specifications for availability.
- 36. HP Sure View must be ordered at purchase, functions in landscape orientation and is planned to be available in July 2019.
- 37. HP Sure Recover Gen2: See product specifications for availability. Requires an open, wired network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover (Gen1) does not support platforms with Intel® Optane™.
- 38. HP Sure Run Gen2: See product specifications for availability.



Features

POWER

Power Supply Internal Internal 180W

ENVIRONMENTAL AND INDUSTRY

UNIT ENVIRONMENTAL AND OPERATING CONDITIONS

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range.
- Leave a 10.2 cm (4 in) clearance on all vented sides of the computer to permit the required airflow.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.

Temperature Range Operating: 50° to 95° F (10° to 35° C)*

Non-operating: -22° to 140° F(-30° to 60° C)

Relative Humidity Operating: 10% to 90% (non-condensing at ambient)

Non-operating: 5% to 95% (non-condensing at ambient)

Maximum Altitude (unpressurized) Operating: 5000m

Non-operating: 50000ft (15240 m)

NOTE: Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country*. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options. *Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.				
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a "Typically Configured Desktop".				
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz		
Normal Operation (Short idle)	24.408 W	24.48 W	24.225 W		



Features

Normal Operation (Long	4	ł.861 W	4.951 W	4.723 W		
idle) Sleep	-	1.467 W			1 /11 W	
Off		0.73 W	1.486 W 0.788 W		1.411 W 0.707 W	
OTT	NOTE: Energ model family applicable U. computers. I' efficiency da	y efficiency data liste v. HP computers mark S. Environmental Pro f a model family does ta listed is for a typic	d is for an ENERGY STAF ted with the ENERGY STA tection Agency (EPA) EN not offer ENERGY STAF	AR® Logo are o NERGY STAR® o R® compliant c ring a hard dis	oroduct if offered within the compliant with the	
Heat Dissipation*	115	VAC, 60Hz	230VAC, 50H	lz	100VAC, 60Hz	
Normal Operation (Short idle)	83.2	231 BTU/hr	83.477 BTU/	hr	82.607 BTU/hr	
Normal Operation (Long idle)	16.5	576 BTU/hr	16.883 BTU/		16.105 BTU/hr	
Sleep	5.00)25 BTU/hr	5.067 BTU/h	ır	4.812 BTU/hr	
Off		89 BTU/hr	2.687 BTU/h		2.411 BTU/hr	
	NOTE: Heat of attained for o	one hour.	ed based on the measur		uming the service level is	
Declared Noise Emissions		Sound Power			ound Pressure	
(in accordance with ISO 7779 and ISO 9296)		(L _{WAd} , bels)	(L _{pAm} , decibels)	
Typically Configured – Idle		2.7			17.3	
Fixed Disk – Random writes		3.2			20.4	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.					
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium					
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680.1-2018 EPEAT® Status varies by country. Visit www.epeat.net for more information. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 0% post-consumer recycled plastic (by wt.) This product is 95.1% recycle-able when properly disposed of at end of life. 					
Packaging Materials	External:	PAPER/Corrugated			1419 g	
	Internal:		inded Polyethylene)		694 g	
		PLASTIC/Polyethyl			94 g	



Features

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/pdf/gse.pdf):						
	• Asbestos						
	Certain Azo Colorants						
	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics						
	• Cadmium						
	Chlorinated Hydrocarbons Chlorinated Paraffine						
	Chlorinated Paraffins Formaldehyde						
	Halogenated Diphenyl Methanes						
	• Lead carbonates 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 Ethers (PBBEs)						
	Polybrominated Biphenyl Oxides (PBBOs)						
	Polychlorinated Biphenyl (PCB)						
	Polychlorinated Terphenyls (PCT)						
	Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been						
	voluntarily removed from most applications. • Radioactive Substances						
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)						
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To						
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest						
und Recycling	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible						
	manner.						
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for						
	each product type for use by treatment facilities. This information (product disassembly						
	instructions) is posted on the Hewlett Packard 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.						
HP Inc. Corporate	For more information about HP's commitment to the environment:						
Environmental 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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K						
	_Certificate.pdf						
	and						
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf						



QuickSpecs

Features

SERVICE AND SUPPORT

On-site Warranty ¹⁶: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day ¹⁷ service for parts and labor and complimentary limited technical support. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. ¹⁸ To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc

16.Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

17. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

18. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. 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.

CERTIFICATION AND COMPLIANCE

ENERGY STAR® certified; EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country

NOTE: Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.



Technical Specifications - RFID CARD READER

RFID CARD READER

Operating Frequencies 125 kHz, 13.56 MHz

Read Height 1in (Typical)

Device Class HID Protocol USB HID

NFC RF Standards (in ISO/IEC 14443 A, ISO/IEC 14443 B

reading CSN) ISO/IEC 15693

NFC Forum Support Tag Type 1, Type 2, Type 3, and Type 4 in reading CSN

Raw RF Data Rates

Low-frequency Cards: 1,2050 to 7,812 bps
High-frequency Cards: 106 to 848 bps

AWID (RDR-698x Compatible)
Cardax UID (RDR-6C8x Compatible)

CASI-RUSCO (GE Security, UTC) (RDR-628x Compatible)

CDVI COTAG Deister UID DIGITAG Dimpna UID

EM 410x (RDR-6E8x Compatible)

EM 410x Alternate

Farpointe Data (Pyramid) PSC-1 26 Bit (RDR-647x Compatible)

Farpointe Data (Pyramid) UID

GProx-II ID

GProx-II UID (IRDR-6G8x Compatible) HID Prox (RDR-608x Compatible)

HID Prox UID

Hitag 1 & S (RDR-6H8x Compatible)

Hitaq 1 & S Alternate

Hitag 2 (RDR-6H8x Compatible)

Hitag 2 Alternate

Card Types Supported – 125 kHz ID Teck (RDR-6A8x Compatible)
ID Teck Alternate (128 bits)

Indala ASP 26 bit (Motorola) (RDR-638x Compatible)

Indala ASP UID (Motorola)
Indala ASP+ UID (Motorola)

IO Prox (Kantech) (RDR-678x Compatible)

Isonas Keri NXT UID

Keri PSC-1 26 Bit: (RDR-647x Compatible)

Keri UID (RDR-6K8x Compatible)

Nedap

NexKey, Quadrakey, KeyMate, 2SmartKey (Honeywell) Nexwatch (Honeywell) (RDR-6N8x Compatible)

Paradox Postech

Pyramid (Farpointe Data) PSC-1 26 Bit

Pyramid (Farpointe Data) UID

Radio Key (Secura Key -02) RKCx-02 (RDR-6Z8x Compatible)

ReadyKey Pro UID RDR-6R8x Compatible)

Rosslare Russwin UID

Secura Key -01 RKCx-01



Technical Specifications - RFID CARD READER

CEPAS e-TAG

Felica (NFC Type 3)

HID iCLASS I-Code ISO 14443B I-taq

Legic Advant

MIFARE Classic (32 bits)

Card Types Supported – 13.56 MHz MIFARE DESFire MIFARE DESFire EV1

MIFARE Plus MIFARE Ultralight my-d CSN (Infinion)

NFC Type 1 NFC Type 2 NFC Type 4 NTWare Ovster

RDR-758x Equivalent (iCLASS, ISO 14443A, ISO 15693)

Tag-It (Texas instruments)

Card Types Supported – 13.56 MHz ID (with HID SE Processor SIM)

HID iCLASS ID HID iCLASS SE HID iCLASS Seos

NOTE: Dual-band RFID reader and Asset Tracking sold as configurable options. SE Security Access Module (SE SAM) is a separate hardware SIM inserted into the RFID reader and is required to support SE, SEOS, and iClass credentials for reading HID/iClass card types



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

Technical Specifications – Cleaning Care Guide

CLEANING CARE GUIDE

Please refer to the HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One Business PC user guide for instructions on cleaning this computer. Here are additional instructions for cleaning with specific germicidal wipes.

First turn off the computer to prevent electric shock or damage to components.

- Disconnect AC power
- Disconnect all powered external devices

Examine the computer for any visible soiling and then wipe the exterior of the computer with a soft, water-dampened cloth to remove the soil as needed.

- The cloth should be moist but <u>not</u> wet. Water dripping into the ventilation or other points of ingress can cause damage.
- The cloth should be of dry microfiber or a chamois (static-free cloth without oil), or static-free cloth wipes.
- Please do not use fibrous materials, such as paper towels, as these can scratch the computer. Over time, dirt and cleaning
 agents can get trapped in the scratches.

Next, clean the computer using any of the ready-to-use germicidal wipes that contain the below chemical solutions.

- Remember to start with the display, then wipe the rest of the computer and finish with any flexible cables
- o Allow the unit to air-dry before use

(Refer to the directions for use provided by the manufacturer of the wipes)

Ready-to-use cleaning wipe solutions include:

Solution 1

- o Benzyl-C12-18-alkyldimethyl ammonium chlorides: <0.1%
- Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]di methyl, chlorides: <0.1%

• Solution 2

- o Isopropanol: 10-20%
- 2-Butoxvethanol: <5%
- Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides: <0.5%
- o Benzyl-C12-18-alkyldimethyl ammonium chlorides: <0.5%

Solution 3

- Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides: <0.5%
- Benzyl-C12-18-alkyldimethyl ammonium chlorides: <0.5%

Solution 4

- Isopropyl alcohol: 55.000%
- Alkyl dimethyl benzyl ammonium chlorides: 0.250%
- Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride: 0.250%

Solution 5

- Isopropanol: 10-20%
- Ethylene Glycol Monobutyl Ether (2-Butoxyethanol): 1-5%
- Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride: 0.1-0.5%

• Solution 6

o Sodium hypochlorite 0.1%-1.0%

Solution 7

- o Cellulose: 10-30%
- Ethyl alcohol: 0.10-1.00%

Solution 8

Isopropyl alcohol: 60-70%

Water: 30-40%

Do not use cleaners that contain any petroleum based materials such as benzene, thinner, or any volatile substance to clean the screen or cabinet. These chemicals may damage the computer.

Occasionally clean air vents on all vented sides of the computer. Lint and dust can block the vents and limit the airflow.



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

Technical Specifications – Cleaning Care Guide

Compatible Gloves

Touch on the screen and clickpad is tuned for support with bare hands and with Latex, Nitrile, and Vinyl exam gloves.

*Solutions tested as of December 4, 2017; chemical composition is subject to change.



Technical Specifications – Display Panel

DISPLAY PANEL SPECIFICATIONS

23.8" diagonal IPS widescreen WLED backlit anti-glare LCD (1920 x 1080) Discrete Projected Capacitive Touch supports up to 10 touch-points

Type IPS WLED Backlit LCD
Active area (mm) 527.04 x 296.46
Native Resolution (HxV) 1920 x 1080

Aspect ratio 16:09

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio (typical)1000:1Brightness (typical)215 nitsViewing angle (typical) (HxV)178 ° x 178 °

Backlight lamp life (to half brightness)30,000 hours minimumColor supportOver 16 million colors*

Color gamut (typical) NTSC 72%

Anti-glare Yes

Default color temperature Warm (6500K)

NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

*NOTE: Up to 16 million colors through A-FRC technology.

23.8" diagonal IPS widescreen WLED backlit anti-glare LCD (1920 x 1080) with optional switchable privacy display Discrete Projected Capacitive Touch supports up to 10 touch-points

 Type
 IPS WLED Backlit LCD

 Active area (mm)
 527.04 x 296.46

 Native Resolution (HxV)
 1920 x 1080

 Aspect ratio
 16:09

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio (typical) 1000:1

Brightness (typical) 245 nits (non-Privacy); 170 nits (Privacy)

Viewing angle (typical) (HxV) 178 ° x 178 ° (non-Privacy); 80 ° x 178 ° (Privacy)

Backlight lamp life (to half brightness)30,000 hours minimumColor supportOver 16 million colors

Color gamut (typical) NTSC 72%

Anti-glare Yes

Default color temperature Warm (6500K)

NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

*NOTE: Up to 16 million colors through A-FRC technology.



Technical Specifications – Graphics

GRAPHICS

Intel® UHD Graphics (integrated)

Multimode capable; supports HDCP 2.2, Display Port Audio (2 streams), HBR2 link rates and DisplayPort™

Multi-Stream Technology for a maximum of 3 displays (including the integrated panel)

HDMI Supports HDMI 2.0a features

The actual amount of maximum graphics memory can be >4GB. System memory is allocated Memory

for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide

an optimal balance between graphics and system memory use.

Maximum Color Depth Up to 10 bits/color HEVC 10b Enc/Dec HW Graphics/Video API Support

VP9 10b Dec HW

HDR Rec. 2020 DX12

Display Output chart.

			tay output the	1	1	
Resolution	Refresh Rate	VGA (Using HP DP to VGA adapter)	DVI-D (Using HP DP to DVI-D adapter)	DisplayPort™	HDMI	Standard
640 x 480	60, 75, 85	Х	х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	х	х	Х	VESA DMT, CVT 0.92M9, CEA- 770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9- R
1280 x 800	60, 75, 85	Χ	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Χ	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Χ	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	х	Х	VESA DMT
1680 x 1050	60, 60RB	Х	х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1080	75			Х	Х	CVT-RBv2 (2.07M-R)
1920 x 1080	100			Х	Х	CVT-RBv2 (6.14M-R)
1920 x 1080	120			Х	Х	SMPTE 274M



Technical Specifications – Graphics

1920 x 1080	144			Х	Х	SMPTE 274M
1920 x 1200	60, 60RB	X ¹	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60	Х	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85			Х	Х	VESA DMT, CVT 2.76M3
1030 V 1600	59.95			Х	х	CVT-RBv2 (Not CVT Standard
1920 X 1600						Aspect Ratio) CVT 3.15M3
2048 x 1536	60			X	X	CVT 3.69M9-R
2560 x 1440	59.951			Х	Х	VESA DMT, CVT 4.10MA/4.10MA-
2560 x 1600	60, 60RB			Х	Х	R
3440 x 1200	60			Х	Х	CVT-4.61M-R
3440 x 1440	49.987			Х	Х	CVT-RB v1
3440 x 1440	59.973			Х	Х	CVT-RB v1
3440 x 1440	60			Х	Х	Samsung Custom
3440 x 1440	100			х	Х	CVT-RBv2 (4.95M-R)
3440 x 1440	120			х	Х	CVT-RBv2 (4.95M-R)
3840 x 1600	30			Х	Х	CVT-RBv2 (6.14M-R)
3840 x 1600	59.994			Х	Х	CVT-RBv2
3840 x 2160	24			X	Х	SMPTE 274M
3840 x 2160	25			X	Х	SMPTE 274M
3840 x 2160	30			X	X	SMPTE 274M
3840 x 2160	29.981			X	X	CVT-RB v1
3840 x 2160	50			X	X	SMPTE 274M
3840 x 2160	59.997			X	X	CVT-RBv1 (8.29M9-R)
						SMPTE 274M
3840 x 2160	60			X	X	SMPTE 274M
4096 x 2160	24			X	X	SMPTE 274M
4096 x 2160	25			Х	Х	SMPTE 274M
4096 x 2160	30			Х	Х	SMPTE 274M
4096 x 2160	50			Х	Х	CVT-RBv2
4096 x 2160	59.94			Х	Х	
4096 x 2160	60			Х	Х	CVT-RBv2
1920 x 1080	60		х	Х	Х	VESA (SMPTE 274M)

NOTE: Other rerfresh rates and resolutions may also work, but have not been validated.



>60Hz refresh rates only for analog (VGA) signaling

^{1 - 60}Hz Reduced Blanking only.

Technical Specifications – Storage

STORAGE AND DRIVES

500 GB 7200RPM 2.5in SATA HDD

Capacity500 GBRotational Speed7,200 rpmInterfaceSATA 6 Gb/sBuffer Size32 MB

Logical Blocks 976,773,168 **Seek Time** 12 ms (Average)

Height0.267 in/6.8 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° to 131° F (5° to 55° C)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB 7200RPM 2.5in SATA HDD

Capacity 1 TB

Rotational Speed 7,200 rpm **Interface** SATA 6 Gb/s **Buffer Size** 32 MB

Logical Blocks 1,953,525,168
Seek Time 12 ms (Average)

Height0.374 in/9.5 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° to 131° F (5° to 55° C)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

2 TB 5400RPM 2.5in SATA HDD

Capacity 2 TB
Rotational Speed 5,400 rpm

Interface SATA 6 Gb/s
Buffer Size 128 MB

Logical Blocks3,907,050,336Seek Time12 ms (Average)

Height0.374 in/9.5 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° to 131° F (5° to 55° C)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.



Technical Specifications – Storage

500 GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD

Capacity 500 GB

Architecture Self-Encrypting (SED) Solid State Drive with SATA interface

Interface SATA 6 Gb/s
Buffer Size 32 MB

Logical Blocks 976,773,168
Seek Time 12 ms (Average)

 Height
 0.267 in/6.8 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 Operating Temperature
 41° to 131° F (5° to 55° C)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

500 GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD

Capacity 500 GB

Architecture Self-Encrypting (SED) Solid State Drive with SATA interface

InterfaceSATA 6 Gb/sBuffer Size32 MBLogical Blocks976,773,168

Seek Time 12 ms (Average)

Height0.267 in/6.8 mm (nominal)Width2.75 in/70 mm (nominal)Operating Temperature41° to 131° F (5° to 55° C)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

128 GB 2.5in SATA Three Layer Cell SSD

Drive Weight<50g</td>Capacity128 GBHeight7mmLength100.45mmWidth69.85mm

InterfaceSATA 3.0 (6Gb/s)Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 380MB/sLogical Blocks250,069,680

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM: TRIM

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.



Technical Specifications – Storage

256 GB 2.5in SATA Three Layer Cell SSD

Drive Weight <62g
Capacity 256 GB
Height 7mm
Length 100.45mm
Width 69.85mm

Interface SATA 3.0 (6Gb/s)

Maximum Sequential Read Up to 530MB/s

Maximum Sequential Write Up to 450MB/s

Logical Blocks 500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB 2.5in SATA Three Layer Cell SSD

Drive Weight<50g</th>Capacity512 GBHeight7mmLength100.45mmWidth69.85mm

InterfaceSATA 3.0 (6Gb/s)Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight<50g</td>Capacity256 GBHeight7mmLength100.45mmWidth69.85mm

InterfaceSATA 3.0 (6Gb/s)Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp] **Features** DIPM; TRIM; TCG-OPAL2.0 security



Technical Specifications – Storage

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight<50g</td>Capacity512 GBHeight7mmLength100.45mmWidth69.85mm

InterfaceSATA 3.0 (6Gb/s)Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks1,000,215,216

Operating Temperature0° to 70°C (32° to 158°F) [ambient temp] **Features**DIPM; TRIM; TCG-OPAL2.0 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD

Drive Weight <40g
Capacity 256 GB
Height 7mm
Length 100.45mm
Width 69.85mm

InterfaceSATA 3.0 (6Gb/s)Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM; FIPS 140-2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.



Technical Specifications – Storage

512 GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD

Drive Weight <45g
Capacity 512 GB
Height 7mm
Length 100.45mm
Width 69.85mm

Interface SATA 3.0 (6Gb/s)

Maximum Sequential Read Up to 530MB/s

Maximum Sequential Write Up to 500MB/s

Logical Blocks 1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM; FIPS 140-2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

128 GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10q Capacity 128GB Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen3 **Maximum Sequential Read** Up to 1400MB/s **Maximum Sequential Write** Up to 395MB/s

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

250,069,680

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB M.2 2280 PCIe NVMe SSD

Logical Blocks

Drive Weight < 10a 256 GB Capacity Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 780MB/s **Logical Blocks** 500.118.192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2



Technical Specifications – Storage

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10q Capacity 512 GB Height 2.38mm 80mm Length Width 22mm Interface PCIF Gen3 **Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 860MB/s **Logical Blocks** 1.000.215.216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB M.2 2280 PCIe NVMe SSD

Drive Weight < 10q Capacity 1 TB 2.38mm Height Length 80mm Width 22_{mm} Interface PCIE Gen3 **Maximum Sequential Read** Up to 1800MB/s **Maximum Sequential Write** Up to 1800MB/s **Logical Blocks** 2,000,409,264

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features TRIM; ASPM L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

128 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight < 10q Capacity 128 GB Height 2.38mm Length 80mm Width 22_{mm} PCIE Gen3x4 Interface **Maximum Sequential Read** Up to 2800MB/s **Maximum Sequential Write** Up to 600MB/s **Logical Blocks** 250,069,680

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]



Technical Specifications – Storage

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight < 10q 256GB Capacity Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 2700MB/s **Maximum Sequential Write** Up to 1000MB/s **Logical Blocks** 500.118.192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight < 10q Capacity 512 GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 2900MB/s **Maximum Sequential Write** Up to 1100MB/s **Logical Blocks** 1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight < 10q 1 TB Capacity Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 3480MB/s **Maximum Sequential Write** Up to 3037MB/s



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

Technical Specifications – Storage

Logical Blocks 2,000,409,264

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features TRIM; ASPM L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight < 10q Capacity 256 GB Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 2700MB/s **Maximum Sequential Write** Up to 1000MB/s **Logical Blocks** 500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2; TCG-OPAL2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight < 10q Capacity 512 GB 2.38mm Height 80mm Length Width 22mm Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 2900MB/s **Maximum Sequential Write** Up to 1100MB/s **Logical Blocks** 1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2; TCG-OPAL2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.



Technical Specifications – Storage

512GB Intel® Optane™ Memory H10 with Solid State Storage

Drive Weight < 10a Capacity 512 GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3x4 **Maximum Sequential Read** Up to 2400MB/s **Maximum Sequential Write** Up to 1300MB/s **Logical Blocks** 1,000,215,215

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features TRIM; ASPM L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

HP 9.5mm Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) Up to 0.31 lb (140g) without bezel

Read Speeds DVD+R/-R/+RW/

-RW/+R DL /-R DL Up to 8X DVD-ROM Up to 8X CD-ROM, CD-R Up to 24X CD-RW Up to 24X

Access time

(typical reads, including

settling)

Random: DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) Full stroke: DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

Power Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Environmental conditions Temperature 41° to 122° F (5° to 50° C)

(operating - non-condensing) Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)

HP 9.5mm Slim DVD Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Disc recording capacity Up to 8.5 GB DL or 4.7 GB standard

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

 Weight (max)
 0.31 lb (140 g)

 Write Speeds
 DVD-R DL - Up to 6X

DVD+R - Up to 8X DVD+RW - Up to 8X DVD+R DL - Up to 6X



Technical Specifications – Storage

DVD-R - Up to 8X DVD-RW - Up to 6X CD-R - Up to 24X CD-RW - Up to 10X

Read Speeds DVD-RW, DVD+RW - Up to 8X

DVD-R DL, DVD+R DL - Up to 8X DVD+R, DVD-R - Up to 8X DVD-ROM DL, DVD-ROM - Up to 8X

CD-ROM, CD-R - Up to 24X

CD-RW - Up to 24X

Access time

(typical reads, including

Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical) Stop Time 6 seconds (typical)

settling)

Power

Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p

DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)

Environmental conditions

Temperature 41° to 122° F (5° to 50° C)

(operating - non-condensing)

Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)

HP 9.5mm Slim Blu-Ray Writer Drive

9.5 mm height Height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Disc recording capacity Up to 128 GB QL, 100 GB TL, 50 GB DL or 25 GB standard SL Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) 0.29 lb (132 g)

Write Speeds BD-R SL/DL Up to 6X

BD-R TL/QL Up to 4X BD-RE Up to 2X DVD-R Up to 8X DVD-RW Up to 6X DVD+R Up to 8X DVD+RW Up to 8X DVD-RAM Up to 5X CD-R Up to 24X CD-RW Up to 10X

Read Speeds BD-ROM Up to 6X BD-R Up to 6X

> BD-RE **SL/DL** Up to 6X BD-RE TL Up to 4X DVD-ROM Up to 8X DVD-R Up to 8X DVD-RW Up to 8X DVD+R Up to 8X DVD+RW Up to 8X **BDMV (AACS Compliant**

Disc)

Up to 6x/2x (Read/Play) DVD-RAM Up to 5x DVD-Video (CSS Compliant Disc)



Technical Specifications – Storage

Up to 8x/4x (Read/Play) CD-R/RW/ROM Up to 24x

CD-DA (DAE) Up to 24X/10X (Read/Play)

Access time Random BD-ROM: 205 ms (typical), DVD-ROM: 185 ms (typical),

(typical reads, including CD-ROM: 165 ms (typical)

settling) Full Stroke BD-ROM: 350 ms (typical), DVD-ROM: 345 ms (typical),

CD-ROM: 340 ms (typical)

Power Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC -1200 mA typical, 2000 mA maximum

Environmental conditions Temperature 41° to 122° F (5° to 50° C)

(operating - non-condensing) Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)



Technical Specifications – Networking and Communications

NETWORKING AND COMMUNICATIONS

Connector	RJ-45		
System Interface	PCI (Intel proprietary) + SMBus		
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		
	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 standby and hibernation (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		
	nternet service is required. Availability of public wireless access point is limited. The		
	LAN are draft specifications and are not final. If the final specifications differ from the draft		
specifications, it may affect the at	oility of the notebook to communicate with other 802.11ac WLAN devices		

Intel 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo vPro™			
Wireless LAN Standards	IEEE 802.11a		
	IEEE 802.11b		
	IEEE 802.11g		
	IEEE 802.11n		
	IEEE 802.11ac		
Interoperability	Wi-Fi certified		
Frequency Band	802.11b/g/n	•2.402 – 2.482 GHz	
	802.11a/n	•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	



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: MCS 0 ~ MCS 15, (20MHz, and 40		
	•802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)		
Modulation	Direct Sequence Spread Spectrum		
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QA	AM	
Security ³	•IEEE and WiFi compliant 64 / 128 bit WEP 6	encryption for a/b/g mode only	
	•AES-CCMP: 128 bit in hardware		
	•802.1x authentication		
	•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK	K, TKIP, and AES.	
	•WPA2 certification		
	•IEEE 802.11i		
	•Cisco Certified Extensions, all versions thro	ough CCX4 and CCX Lite	
	•WAPI		
Network Architecture Models	Ad-hoc (Peer to Peer)		
	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between ac	ccess points	
Output Power ²	• 802.11b : +18.5dBm minimum		
	• 802.11g : +17.5dBm minimum		
	• 802.11a : +18.5dBm minimum		
	• 802.11n HT20(2.4GHz) : +15.5dBm minim	ııım	
	• 802.11n HT40(2.4GHz) : +14.5dBm minim		
	• 802.11n HT20(5GHz) : +15.5dBm minimur		
	• 802.11n HT40(5GHz) : +14.5dBm minimur		
	• 802.11ac VHT80(5GHz) : +11.5dBm minim		
	• 802.11ac VHT160(5GHz): +11.5dBm minimum		
Power Consumption	•Transmit mode2.0 W	mum	
i ower consumption	Receive mode1.6 W Idle mode (PSP)180 mW(WLAN Associated) Idle mode50 mW(WLAN unassociated)		
	•Connected Standby 10mW		
	•Radio disabled8 mW		
Power Management	ACPI and PCI Express compliant power management		
rowei management			
Deseiver Consistivitus	802.11 compliant power saving mode		
Receiver Sensitivity ³	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: -84dBm maximum		
Antonno tuno	802.11ac, MCS9 : -59dBm maximum	tu mounted in the display and assure	
Antenna type	High efficiency antenna with spatial diversi		
		nas are provided to the card to support WLAN	
Faure Factor	MIMO communications and Bluetooth communications		
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm		
	-		
Weight	Type 2230 : 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature			
	Non-operating	–40° to 176° F (–40° to 80° C	
Humidity	Operating 10% to 90% (non-condensing)		
	Non-operating 5% to 95% (non-condensing)		
	- · · · · · · · · · · · · · · · · · · ·	<u> </u>	



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

Technical Specifications – Networking and Communications

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 White – Radio ON		
HP Integrated Module with Bl	uetooth 4.0/4.1/4.2/5.0 Wi	reless Technology	
Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	Legacy : 0~79 (1 MHz/CH)		
	BLE: 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy : 3 Mbps data rate; th		
	BLE: 1 Mbps data rate; throu		
		ction Oriented links up to 3, 64 kbps, voice channels	
		ection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or	
	864 kbps symmetric (3-EV5)		
Transmit Power		nall operate as a Class II Bluetooth device with a maximum	
	transmit power of + 4 dBm fo	or 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		
Power Management	ETS 300 328, ETS 300 826		
Certifications	Low Voltage Directive IEC950		
	UL, CSA, and CE Mark		
Bluetooth Profiles Supported			
	LE Link Layer Ping		
	LE Dual Mode		
	LE Link Layer LE Low Duty Cycle Directed A	duarticing	
	LE L2CAP Connection Oriente		
	Train Nudging & Interlaced S		
	BT4.2 ESR08 Compliance	Call	
	LE Secure Connection- Basic	'Full	
	LE Privacy 1.2 –Link Layer Pr		
	LE Privacy 1.2 –Extended Sca		
	LE Data Packet Length Exten		
	FAX Profile (FAX)	30.1	
	Basic Imaging Profile (BIP)2		
	Headset Profile (HSP)		
	Hands Free Profile (HFP)		
	Advanced Audio Distribution	Profile (A2DP)	
Security & Manageability		propriate Intel® chipset components	
		of public wireless access point is limited. The	

NOTE: Wireless access point and Internet service is required. Availability of public wireless access point is limited. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices



\$1.5 - 5.2			IEEE 802.11a	ireless LAN Standards	
IEEE 802.11ac IEEE 802.11bc IEEE 802.11ac IEEE 802.11a			IEEE 802.11b		
IEEE 802.11ac Wi-Fi certified			IEEE 802.11g		
Wi-Fi certified 802.11b/g/n 2.402 - 2 802.11b/g/n 44.9 - 4.9 4.9			IEEE 802.11n		
Solution			IEEE 802.11ac		
802.11a/n			Wi-Fi certified	Interoperability	
*5.15 – 5.2 *5.25 – 5.2 *5.25 – 5.2 *5.27 – 5.2 *5.27 – 5.2 *5.25 – 5.2 *5.26 *5.25 – 5.2 *5.26 *6.20 *6.2	482 GHz		802.11b/g/n	Frequency Band	
*5.25 – 5. *5.47 – 5. *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.825 – 5 *5.47 – 5. *5.825 – 5 *5.47 – 5. *5.825 – 5 *6.20 – 128 – 12	GHz (Japan)		802.11a/n		
*5.47 – 5 *5.825 – 5 *5.825 – 5 *5.825 – 5 *802.11b: 1, 2, 5.5, 11 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: MCS0 ~ MCS 15, (20MHz, and 40MHz) *802.11a: CMCS0 ~ MCS, (1SS, and 2SS) (20MHz, 40MHz *BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM *Security³ *IEEE and WiFi compliant 64 / 128 bit WEP encryption for *AES-CCMP: 128 bit in hardware *802.1x authentication *WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: *WPA2 certification *IEEE 802.11i *Cisco Certified Extensions, all versions through CCX4 and *WAPI *Ad-hoc (Peer to Peer) *Infrastructure (Access Point Required) *BEE 802.11 compliant roaming between access points *B02.11b: +18.5dBm minimum *802.11b: +18.5dBm minimum *802.11b: +18.5dBm minimum *802.11a: +18.5dBm minimum *802.11n HT20(2.4GHz): +15.5dBm minimum *802.11n HT20(2.4GHz): +15.5dBm minimum *802.11n HT20(5GHz): +14.5dBm minimum *802.11n HT20(5GHz): +15.5dBm minimum *802.11a VHT160(5GHz): +11.5dBm minimum *802.11a C VHT180(5GHz): +11.5dBm minimum *802.11a C VHT160(5GHz): +11.5dBm minimum *8	5 GHz				
*5.825 – 5 Data Rates	5 GHz				
-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 -802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps -802.11a: C, 9, 12, 18, 24, 36, 48, 54 Mbps -802.11a: C MCSO ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) -802.11ac: MCSO ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) Modulation Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM Security³ = IEEE and WiFi compliant 64 / 128 bit WEP encryption for -AES-CCMP: 128 bit in hardware -802.1x authentication -WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: -WPA2 certification -IEEE 802.11i -Cisco Certified Extensions, all versions through CCX4 and -WAPI Network Architecture Models Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) Reaming IEEE 802.11 compliant roaming between access points 0utput Power² 802.11b:+18.5dBm minimum -802.11b:+18.5dBm minimum -802.11a:+18.5dBm minimum -802.11a HT20(2.4GHz):+15.5dBm minimum -802.11n HT20(5GHz):+15.5dBm minimum -802.11n HT40(5GHz):+14.5dBm minimum -802.11a C VHT80(5GHz):+11.5dBm minimum	25 GHz				
*802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11a: MCS 0 ~ MCS 15, (20MHz, and 40MHz) *802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) **Bo2.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) **Bo2.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) **Bo2.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) **Bo2.11ac: MCS0, MCS9, (1SS, and 2SS) (20MHz, 40MHz) **Bo2.11ac: MF, Compliant 64 / 128 bit WEP encryption for 'AES-CCMP: 128 bit in hardware **802.1x authentication **WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: 'WPA2 certification **IEEE 802.11i **Cisco Certified Extensions, all versions through CCX4 and 'WAPI **Network Architecture Models** **Network Architecture Architecture Models** **Network Architecture Architecture Architecture Archit	850 GHz				
*802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) *802.11ac: MCSO ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM *IEEE and WiFi compliant 64 / 128 bit WEP encryption for *AES-CCMP: 128 bit in hardware *802.1x authentication *WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: *WPA2 certification *IEEE 802.11i *Cisco Certified Extensions, all versions through CCX4 and *WAPI **Network Architecture Models** **Network Architecture Models** **Network Architecture (Access Point Required) **Network Architecture Models **Network				Data Rates	
*802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) *802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz) Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM *IEEE and WiFi compliant 64 / 128 bit WEP encryption for *AES-CCMP: 128 bit in hardware *802.1x authentication *WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: *WPA2 certification *IEEE 802.11i *Cisco Certified Extensions, all versions through CCX4 and *WAPI **Network Architecture Models** **Machoc (Peer to Peer) Infrastructure (Access Point Required) **Reaming** **IEEE 802.11 compliant roaming between access points **Output Power** **802.11b : +18.5dBm minimum **802.11c : +18.5dBm minimum **802.11a : +18.5dBm minimum **802.11a : +18.5dBm minimum **802.11n HT20(2.4GHz) : +15.5dBm minimum **802.11n HT40(2.4GHz) : +14.5dBm minimum **802.11n HT40(5GHz) : +11.5dBm minimum **802.11a CVHT160(5GHz)		•			
*802.11ac : MCSO ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM *IEEE and WiFi compliant 64 / 128 bit WEP encryption for					
Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM **JEEE and WiFi compliant 64 / 128 bit WEP encryption for -*AES-CCMP: 128 bit in hardware -*802.1x authentication -*WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: -*WPA2 certification -*IEEE 802.11i -*Cisco Certified Extensions, all versions through CCX4 and -*WAPI **Network Architecture Models** **Network Architecture Models** **Roaming** **Deep to Peer of Pee		•			
BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM *IEEE and WiFi compliant 64 / 128 bit WEP encryption for AES-CCMP: 128 bit in hardware *802.1x authentication *WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: WPA2 certification *IEEE 802.11i *Cisco Certified Extensions, all versions through CCX4 and WAPI **Network Architecture Models** **Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) **IEEE 802.11 compliant roaming between access points** **Network Architecture Models** **Net	and 80MHz)				
• IEEE and WiFi compliant 64 / 128 bit WEP encryption for • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE! • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and • WAPI Network Architecture Models Network Architecture Models Network Architecture (Access Point Required) IEEE 802.11 compliant roaming between access points Output Power² • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11n HT40(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum				Modulation	
• AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and • WAPI Network Architecture Models Network Architecture Models Roaming IEEE 802.11 compliant roaming between access points Output Power² • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHZ):					
*802.1x authentication *WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: *WPA2 certification *IEEE 802.11i *Cisco Certified Extensions, all versions through CCX4 and *WAPI **MAPI** **Machine (Peer to Peer) Infrastructure (Access Point Required) **Roaming** **Bo2.11b: +18.5dBm minimum **802.11b: +18.5dBm minimum **802.111: +18.5dBm minimum **802.111: +18.5dBm minimum **802.111: H7.5dBm minimum **802.11	a/b/g mode only			Security ³	
•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AE: •WPA2 certification •IEEE 802.11i •Cisco Certified Extensions, all versions through CCX4 and •WAPI Network Architecture Models Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points Output Power² •802.11b:+18.5dBm minimum •802.11g:+17.5dBm minimum •802.11a:+18.5dBm minimum •802.11n HT20(2.4GHz):+15.5dBm minimum •802.11n HT40(2.4GHz):+14.5dBm minimum •802.11n HT40(5GHz):+14.5dBm minimum •802.11n HT40(5GHz):+11.5dBm minimum •802.11ac VHT80(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+10.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+10.5dBm minimum					
•WPA2 certification •IEEE 802.11i •Cisco Certified Extensions, all versions through CCX4 and •WAPI Network Architecture Models Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) IEEE 802.11 compliant roaming between access points Output Power² •802.11b:+18.5dBm minimum •802.11g:+17.5dBm minimum •802.11a:+18.5dBm minimum •802.11n HT20(2.4GHz):+15.5dBm minimum •802.11n HT40(2.4GHz):+14.5dBm minimum •802.11n HT20(5GHz):+14.5dBm minimum •802.11n HT40(5GHz):+11.5dBm minimum •802.11ac VHT80(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+10.5dBm minimu					
•IEEE 802.11i •Cisco Certified Extensions, all versions through CCX4 and •WAPI Network Architecture Models Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) IEEE 802.11 compliant roaming between access points Output Power² •802.11b:+18.5dBm minimum •802.11g:+17.5dBm minimum •802.11a:+18.5dBm minimum •802.11n HT20(2.4GHz):+15.5dBm minimum •802.11n HT40(2.4GHz):+14.5dBm minimum •802.11n HT40(5GHz):+14.5dBm minimum •802.11n HT40(5GHz):+11.5dBm minimum •802.11ac VHT80(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+11.5dBm minimum •802.11ac VHT160(5GHz):+10.5dBm minimum	•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.				
• Cisco Certified Extensions, all versions through CCX4 and •WAPI Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT180(5GHz): +10.5dBm minimum • 802.11ac VHT80(5GHz): +1					
•WAPI Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +15.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm m					
Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHz): +10					
Infrastructure (Access Point Required) IEEE 802.11 compliant roaming between access points • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +11.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHz): +10.5				Network Architecture Models	
Roaming IEEE 802.11 compliant roaming between access points					
• 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHz):	IEEE 802.11 compliant roaming between access points		Roaming		
• 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +15.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac		m	• 802.11b : +18.5dBm n	Output Power²	
• 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT80(5GHz): +10.5dBm m					
• 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT160(5GHz): +10.5dBm minimum • 802.11ac VHT180(5GHz): +10.5dBm minimum • 802.11ac VHT80(5GHz): +10.5dBm minimum • 802.11ac VHT180(5GHz): +10.5dBm					
• 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum Power Consumption • Transmit mode2.0 W • Receive mode1.6 W • Idle mode (PSP)180 mW(WLAN Associated) • Idle mode50 mW(WLAN unassociated) • Connected Standby 10mW • Radio disabled8 mW					
• 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum Power Consumption • Transmit mode2.0 W • Receive mode1.6 W • Idle mode (PSP)180 mW(WLAN Associated) • Idle mode50 mW(WLAN unassociated) • Connected Standby 10mW • Radio disabled8 mW					
• 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum Power Consumption • Transmit mode2.0 W • Receive mode1.6 W • Idle mode (PSP)180 mW(WLAN Associated) • Idle mode50 mW(WLAN unassociated) • Connected Standby 10mW • Radio disabled8 mW					
• 802.11ac VHT160(5GHz): +11.5dBm minimum Power Consumption • Transmit mode2.0 W • Receive mode1.6 W • Idle mode (PSP)180 mW(WLAN Associated) • Idle mode50 mW(WLAN unassociated) • Connected Standby 10mW • Radio disabled8 mW					
• Transmit mode2.0 W • Receive mode1.6 W • Idle mode (PSP)180 mW(WLAN Associated) • Idle mode50 mW(WLAN unassociated) • Connected Standby 10mW • Radio disabled8 mW					
•Receive mode1.6 W •Idle mode (PSP)180 mW(WLAN Associated) •Idle mode50 mW(WLAN unassociated) •Connected Standby 10mW •Radio disabled8 mW		1.5dBm min			
 Idle mode (PSP)180 mW(WLAN Associated) Idle mode50 mW(WLAN unassociated) Connected Standby 10mW Radio disabled8 mW 			Power Consumption		
Idle mode50 mW(WLAN unassociated)Connected Standby 10mWRadio disabled8 mW					
•Connected Standby 10mW •Radio disabled8 mW					
•Radio disabled8 mW	· · · · · · · · · · · · · · · · · · ·				
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		_			
Power Management ACPI and PCI Express compliant power management 802.11 compliant power saving mode	ACPI and PCI Express compliant power management		Power Management		



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Receiver Sensitivity ³	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 maximu		
	802.11ac, MCS0 : -84dBm maximur		
	802.11ac, MCS9 : -59dBm maximur		
Antenna type		l diversity, mounted in the display enclosure	
		z antennas are provided to the card to support WLAN	
	MIMO communications and Bluetoc	th communications	
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230 : 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
p	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)	
Attitude	Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radio OFF; LED White		
HP Integrated Module with B Bluetooth Specification	uetooth 4.0/4.1/4.2/5.0 Wireless 4.0/4.1/4.2/5.0 Compliant	Technology	
Frequency Band Number of Available Channels	2402 to 2480 MHz		
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy : 3 Mbps data rate; through	out up to 2.17 Mbps	
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps		
	Legacy : Synchronous Connection C	riented 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		erate as a Class II Bluetooth device with a maximum	
	transmit power of + 4 dBm for BR a	nd EDR.	
Power Consumption	Peak (Tx) 330 mW		
	Peak (Rx) 230 mW		
	Selective Suspend 17 mW		
Bluetooth Software Supported	Microsoft Windows Bluetooth Softv	Microsoft Windows Bluetooth Software	
Link Topology Power Management	Microsoft Windows ACDL and USD B	us Support	
Certifications	Microsoft Windows ACPI, and USB Bus Support		
	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		



Technical Specifications – Networking and Communications

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)

NOTE: Wireless access point and Internet service is required. Availability of public wireless access point is limited. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices

Realtek 802.11a/b/g/n/a	ac (2x2) WiFi and Bluetooth®	4.2 Combo		
Wireless LAN Standards	IEEE 802.11a			
	IEEE 802.11b			
	IEEE 802.11g			
	IEEE 802.11n			
	IEEE 802.11ac			
Interoperability	Wi-Fi certified			
Frequency Band	802.11b/g/n	•2.402 – 2.482 GHz		
	802.11a/n	•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		
Data Rates	•802.11b: 1, 2, 5.5, 11 Mbps	•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: MCS 0 ~ MCS 15, (20MHz, and 40MHz) •802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)			
Modulation	Direct Sequence Spread Spectrum			
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM			
Security ³	•	•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			
	•IEEE 802.11i			
	•	versions through CCX4 and CCX Lite		
	•WAPI			
Network Architecture Models				
_		Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roamin	IEEE 802.11 compliant roaming between access points		



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Output Power ²	• 802.11b: +14dBm minimum		
	• 802.11g : +12dBm minimum		
	• 802.11a: +12dBm minimum		
	802.11n HT20(2.4GHz): +12dBm minimum 802.11n HT40(2.4GHz): +12dBm minimum 802.11n HT20(5GHz): +10dBm minimum 802.11n HT40(5GHz): +10dBm minimum		
	• 802.11n HT40(5GHz) : +10dBm mir		
	• 802.11ac VHT80(5GHz) : +10dBm r	ninimum	
Power Consumption	•Transmit mode2.0 W		
	•Receive mode1.6 W		
	•Idle mode (PSP)180 mW(WLAN Asso	·	
	•Idle mode50 mW(WLAN unassociate	ed)	
	Connected Standby 10mW		
	•Radio disabled8 mW		
Power Management	ACPI and PCI Express compliant pow		
	802.11 compliant power saving mod		
Receiver Sensitivity ³	802.11b, 1Mbps : -93.5dBm maximu		
	802.11b, 11Mbps : -84dBm maximu		
	802.11a/g, 6Mbps : -86dBm maximu		
	802.11a/g, 54Mbps : -72dBm maxim		
	802.11n, MCS07 : -67dBm maximum		
	802.11n, MCS15 : -64dBm maximum		
	802.11ac, MCS0 : -84dBm maximum		
	802.11ac, MCS9 : -59dBm 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 Bluetoot	h communications	
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230 : 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
remperature	Non-operating	-40° to 176° F (-40° to 80° C	
Humidity	Operating	10% to 90% (non-condensing)	
numurty			
Altitudo	Non-operating	5% to 95% (non-condensing)	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
LED Activity	Non-operating LED Amber – Radio OFF; LED White –	0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radio OFF; LED White –	RAUIO UN	
HP Integrated Module with Bluet	ooth 4.0/4.1/4.2 Wireless Technolog	1	
Bluetooth Specification	4.0/4.1/4.2 Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	Legacy : 0~79 (1 MHz/CH)		
	BLE: 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughp	ut up to 2.17 Mbps	
	BLE: 1 Mbps data rate; throughput u	·	
		iented links up to 3, 64 kbps, voice channels	
		ess 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 + 4 dBm for BR an		
	1 STATISTITE POWER OF TRADITION DIVAL	~ 	



DO2/ 11/1 3 311 MW	
Peak (Tx) 330 mW	
Peak (Rx) 230 mW	
Selective Suspend 17 mW	
USB 2.0 compliant	
·	
Microsoft Windows Bluetooth Software	
Microsoft Windows ACPI, and USB Bus Support	
FCC (47 CFR) Part 15C, Section 15.247 & 15.249	
ETS 300 328, ETS 300 826	
Low Voltage Directive IEC950	
UL, CSA, and CE Mark	
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)	

Realtek 802.11a/b/g/n/ac (1x1) Wi Fi® and Bluetooth® 4.2 Combo ¹			
Wireless LAN Standards	IEEE 802.11a		
	IEEE 802.11b		
	IEEE 802.11g		
	IEEE 802.11n		
	IEEE 802.11ac		
Interoperability	Wi-Fi certified		
Frequency Band	802.11b/g/n	•2.402 – 2.482 GHz	
	802.11a/n	•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	
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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)		
	•802.11ac : MCS0 ~ MCS9, (1S	5, and 2SS) (20MHz, 40MHz, and 80MHz)	
Modulation	Direct Sequence Spread Spect	rum	
	BPSK, QPSK, CCK, 16-QAM, 64-		



Security ³	•IEEE and WiEi compliant 64 / 1	128 hit WED ancruption for a /b/a mode only	
security.	•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.		
	•WPA, WPA2: 802.1X. WPA-PSI	N, WEAL-PON, INIP, dIIU AED.	
	•IEEE 802.11i		
		varsions through CCVA and CCV Lita	
	VISCO Certified Extensions, all WAPI	versions through CCX4 and CCX Lite	
Network Architecture Models	Ad-hoc (Peer to Peer)		
Metwork Architecture Prouets	Infrastructure (Access Point Re	aquired)	
Roaming	IEEE 802.11 compliant roaming		
Output Power ²	• 802.11b : +14dBm minimum		
output rower	• 802.11g: +12dBm minimum		
	• 802.11a : +12dBm minimum		
	• 802.11n HT20(2.4GHz) : +120	IRm minimum	
	• 802.11n HT40(2.4GHz) : +120		
	• 802.11n HT20(5GHz) : +10dB		
	• 802.11n HT40(5GHz): +10dB		
	• 802.11ac VHT80(5GHz): +10		
Power Consumption	•Transmit mode2.0 W	WALL THE PROPERTY OF THE PROPE	
. C Consumption	•Receive mode1.6 W		
	•Idle mode (PSP)180 mW(WLA	N Associated)	
	•Idle mode50 mW(WLAN unass		
	•Connected Standby 10mW		
	•Radio disabled8 mW		
Power Management	ACPI and PCI Express compliant power management		
	802.11 compliant power savin		
Receiver Sensitivity ³	802.11b, 1Mbps : -93.5dBm m		
	802.11b, 11Mbps : -84dBm maximum		
	802.11a/g, 6Mbps : -86dBm m		
	802.11a/g, 54Mbps : -72dBm r		
	802.11n, MCS07 : -67dBm max		
	802.11n, MCS15 : -64dBm max		
	802.11ac, MCS0 : -84dBm max		
	802.11ac, MCS9 : -59dBm max		
Antenna type	High efficiency antenna.		
		5 GHz antenna is provided to the card to support WLAN	
	communications and Bluetoot	h communications	
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 n	nm	
Weight	Type 2230 : 2.8g		
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 W		
•			
HP Integrated Module with B	luetooth 4.0/4.1/4.2 Wireless	Technology	
Bluetooth Specification	4.0/4.1/4.2 Compliant		
Practoon Specification	7.0/7.1/7.2 Compliant		



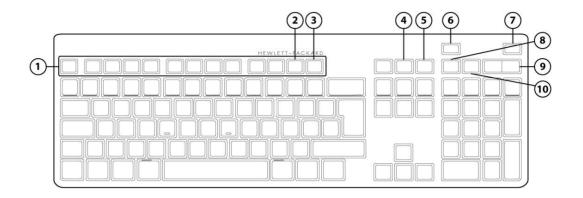
Frequency Band	2402 to 2480 MHz					
Number of Available Channels	Legacy : 0~79 (1 MHz/CH)					
	BLE: 0~39 (2 MHz/CH)					
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps					
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps					
	Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels					
	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH					
	864 kbps symmetric (3-EV5)					
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum					
	transmit power of + 4 dBm for BR and EDR.					
Power Consumption	Peak (Tx) 330 mW					
	Peak (Rx) 230 mW					
	Selective Suspend 17 mW					
Electrical Interface	USB 2.0 compliant					
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					
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)					
	Auvanceu Auulo Distributioni Pronte (AZDP)					



Technical Specifications – I/O Devices

INPUT/OUTPUT DEVICES

HP Conferencing Keyboard



- 1. Function Keys
- 2. F11 Lync or Skype for Business Contact list ¹
- 3. F12 Lync or Skype for Business Calendar²
- 4. Share Screen
- 5. Stop Webcam

- 6. End/Decline a Call
- 7. Answer a Call
- 8. Microphone Mute
- 9. Volume Up/Down
- 10. Audio Mute
- 1. Microsoft Lync 2013, or Skype for Business Contact list
- 2. Microsoft Lync 2013, or Skype for Business Calendar

HP USB Premium Keyboard

104, 105 layout (depending upon country

Physical Characteristics

Dimensions (L x W x H)

17.04 x 5.55 x 0.52 in (433 x 141 x13.2 mm)

Weight 1.54 lb (698g)
Operating voltage 5 VDC, +/-5%

Power consumption 35mA (All LED on)

System interface USB Type A plug connector Electrical

ESD Contact Discharge: 8 KV Air Discharge: 15 KV

EMI - RFI Conforms to FCC rules for a Class B computing device

Microsoft® PC 99 - 2001 Mechanically compliant

Keycaps Low-profile design

Switch actuation 60±10q nominal peak force with tactile feedback

Switch life 10 million keystrokes (Life tester)

Mechanical

Switch type Contamination-resistant switch membrane

Key-leveling mechanisms For all double-wide and greater-length keys

Cable length 6 ft (1.8 m)



Technical Specifications – I/O Devices

Microsoft PC 99 - 2001 Mechanically compliant

Acoustics 43-dBA maximum sound pressure level

Operating temperature 50° to 122° F (10° to 50° C) Non-operating temperature -22° to 140° F (-30° to 60° C)

Operating humidity 10% to 90% (non-condensing at ambient)
Non-operating humidity 20% to 80% (non-condensing at ambient)

Operating shock 40 g, six surfaces

Non-operating shock 80 g, six surfaces

Environmental Operating vibration 2-g peak acceleration

Non-operating vibration 4-g peak acceleration

Drop (out of box) 26 in (66 cm) on carpet, six-drop sequence

Drop (in box) 30 in (76.2 cm) on concrete, 16-drop sequence

Approvals UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC

Ergonomic compliance TUVGS

Kit contents Keyboard, QSP Warranty Card Product Notice

Skylab USB wired Keyboard

Keys 104, 105, 106, 107, 109 layout (depending upon country)

Physical Characteristics Dimensions 436.9*137.7*20.4mm

(L x W x H)

Weight 615g

Operating voltage 4.4-5.25VDC

Power consumption 50-mA maximum (with 5 VDC power supplied and three LEDs ON)

Electrical System interface USB

ESD Contact Discharge: 2, 4,6,8KV

Air Discharge: 2, 4, 8,10,12.5KV

EMI - RFI Conforms to FCC rules for a Class B computing device

Keycaps Low-profile design

Switch actuation 60±15g nominal peak force with tactile feedback

Mechanical Switch life 10 million keystrokes (Life tester)

Switch type Silicon rubber switch membrane

Cable length 6 ft (1.8 m)

Acoustics 43-dBA maximum sound pressure level
Temperature Minus 20 degress to 60 degress Celsius

Environmental Humidity 90%RH+-2%, 24Hours

Vibration 3mm amplitude oscillation, 60Hz

Drop (out of box) 26 in (66 cm) on carpet, six-drop sequence



Technical Specifications – I/O Devices

Drop (in box) 30 in (76.2 cm) on concrete, 16-drop sequence

Approvals UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KC, EAC

Ergonomic compliance

Kit contents

ISO 9241-410, TUVGS

HP USB Premium Mouse

Environmental

Mechanical

Dimensions 4.21 x 2.64 x 1.52 in (107 x 67 x 38.7 mmm)

Physical characteristics (L x W x H)

Weight w/o cable 0.19lb (90g)

Operating temperature 50° to 122° F (10° to 50° C)

Non-operating temperature -22° to 140° F (-30° to 60° C)

Operating humidity 10% to 90% (non-condensing at ambient)
Non-operating humidity 20% to 80% (non-condensing at ambient)

Operating shock 40 g, six surfaces

Non-operating shock 80 g, six surfaces
Operating vibration 2-g peak acceleration

Non-operating vibration 4-g peak acceleration

Operating voltage 5 VDC, +/-5%

Power consumption (typical) 12mA Connector USB 2.0

Type 3D mouse (3 keys and wheel)

Resolution 800, 1200, 1600 DPI
Sensor Pixart PAN3606DL
Tracking speed 30 inch/sec (max)

Tracking acceleration 8G(max), 1G=9.8m/s2

Cable length 6 ft (1.8 m)
Color Jack Black

Regulatory Approvals UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC

HP USB Wired Keyboard

Dimensions 37mm*115mm*62.9mm

(HxLxW)"

Weight 90 +10g/- 5 g

Physical characteristics Color Black

Connector USB

Resolution 800 DPI sensitivity

Buttons Two primary buttons and clickable scroll wheel



QuickSpecs

Technical Specifications – Audio

AUDIO

Audio by HP Audio Internal 2.5watt stereo speaker 3.5mm Combo Jack

High Definition Audio

Type Integrated

HD Audio Codec Conexant CX5001

Audio I/O Ports Universal Audio Jack with CTIA headset support

(re-taskable for headphone/line out/microphone in/line in)

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

Internal Speaker Yes - two speakers

DAC Sampling Rates 44.1kHz/48kHz/96kHz/192kHz

ADC Sampling Rates 44.1kHz/48kHz/96kHz

NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.



Technical Specifications – Power Supply

POWER SUPPLY

Operating Voltage Range90 – 264 VACRated Voltage Range100-240V ACRated Line Frequency50 / 60 HZOperating Line Frequency47 – 63 HzRated Input Current180 W: 2.5A

Energy Efficient* Power

Supply

180 W active PFC

87/90/87% efficient at 20/50/100% load (115V) 88/91/88% efficient at 20/50/100% load (230V)

DC Output 12.1V/14.88A

Current Leakage (NFPA 99:

2102)

Less than 300 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that

contact patients in normal use. Per section 10.3.5.1.

Less than 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances and Equipment used in a patient care

facility or that contact patients in normal use. Per section 10.3.5.1.

Power cord length 6.0 ft. (1.83 m)



Technical Specifications – Weights and Dimensions

WEIGHTS & DIMENSIONS

Weight

Product Weight Unboxed

Without Stand

6.4 – 7.4 kg, 14.1 – 16.3 lbs

Adjustable height stand:

9.1 - 10.4kg, 20.06 - 22.93 lbs

Dimensions (W x D x H)

Products Dimensions

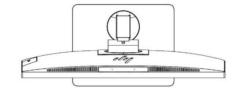
Without Stand

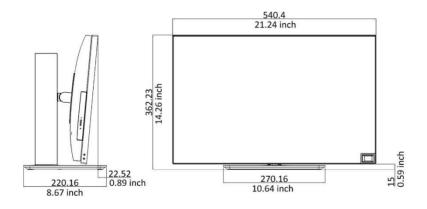
540.4 x 54 x 341.96 mm 21.24 x 2.1 x 13.5 in

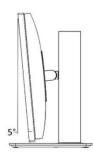
Adjustable height stand (0 degress)

540.4 x 220.16 x 468 mm 21.24 x 8.67 x 18.43 in

DIMENSIONS

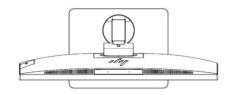


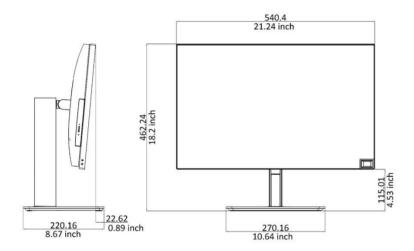


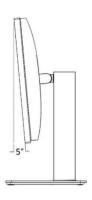


Technical Specifications – Weights and Dimensions

Adjustable Height Stand Dimensions







Height - Vertical/Landscape 101mm (±2 mm)

Adjustment

Portrait Adjustment 54mm (±2 mm)

Tilt Angle 5° to +20° (±3°) in landscape and portrait

Rotation (Swivel) 90° (±1°)

Pivot Clockwise 90°

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

AFTER MARKET OPTIONS

Description	Part #
HP 16GB DDR4-2666 SODIMM	3TK84AA
HP 4GB DDR4-2666 SODIMM	3TK86AA
HP 8GB DDR4-2666 SODIMM	3TK88AA
HP 256GB SATA TLC Non-SED Solid State Drive	P1N68AA
HP PCIe NVME TLC 512GB SSD M.2 Drive	X8U75AA
HP PCIe NVME TLC 256GB SSD M.2 Drive	1CA51AA
Intel Optane Memory 16GB (cache) ****	1WV97AA
HP 9.5mm Slim Removable SATA 500GB	T7G14AA
HP 9.5mm AIO 800 G3 Slim DVD Writer	Z9H62AA
HP Type-C to USB3 Adapter	N2Z63AA
HP USB-C to USB-A HUB***	Z6A00AA
HP Single Monitor Arm **	BT861AA
HP EliteOne G3 800 AIO Recline Stand (optional)	Z9H67AA
HP EliteOne G3 800 AIO Adjustable Height Stand (optional)	Z9H66AA
HP Keyed Cable Lock 10mm Kit	T1A62AA
HP DVI Cable Kit	DC198A
HP DisplayPort To DVI-D Adapter	FH973AA
HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort Cable Kit	VN567AA
HP DisplayPort To HDMI 4k Adapter	K2K92AA
HP DisplayPort to Dual Link DVI Adapter	NR078AA
HP DisplayPort To HDMI True 4k Adapter	2JA63AA
HP HDMI Standard Cable Kit	T6F94AA
HP Business Headset v2	T4E61AA
HP UC Wireless Duo Headset	W3K09AA
HP USB Grey v2 Mouse	Z9H74AA
HP USB Mouse	QY777AA
HP (Bulk) USB Mouse	QY777A6
HP USB Grey Mouse	K7W54AA
HP USB 1000dpi Laser Mouse	QY778AA
HP (Bulk) USB 1000dpi Laser Mouse	QY778A6
HP PS/2 Mouse	QY775AA
HP (Bulk) PS/2 Mouse	QY775A6
HP Mouse Pad	AT485AA
HP (Bulk) Mouse Pad	AT485A6
HP USB PS/2 Washable Scroll Mouse	BM866AA
HP USB Hardened Mouse	P1N77AA
HP USB Collaboration Keyboard	Z9N38AA
HP WLess Collaboration Keyboard	Z9N39AA
HP USB Premium Keyboard	Z9N40AA
HP WLess Premium Keyboard	Z9N41AA



HP EliteOne 800 G5 23.8-in Healthcare Edition All-in-One

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

HP Bus Slim Wirles Localize Kit Nordic	2MY27AA
HP Bus Slim Localize Kit - Nordic USB	2MY28AA
HP USB Keyboard and Mouse Healthcare Edition	1VD81AA
HP Business Slim Smartcard Keyboard	Z9H48AA
HP USB (Grey) Business Slim Keyboard	Z9H49AA
HP USB Antimicrobial Slim Kybd and Mouse	Z9H50AA
HP Conferencing Keyboard	K8P74AA
HP USB Conferencing Keyboard	N8N57AA
HP Wireless Keyboard & Mouse	QY449AA
HP USB Keyboard	QY776AA
HP USB Keyboard/Mouse/Mousepad Kit	B1T09AA
HP (Bulk Pack) USB Keyobard	QY776AT
HP USB (Grey) Keyboard	B6B64AA
HP (Bulk Pack) USB (Grey) Keyboard	B6B64A6
HP PS/2 Keyboard	QY774AA
HP (Bulk Pack) PS/2 Keyboard	QY774A6
HP (Bulk Pack) USB Smart Card Keyboard	ED707A6#xxx
HP USB CCID Smartcard Keyboard	BV813AA#xxx
HP (Bulk Pack) USB CCID Smart Card Keyboard	BT824A6#xxx
HP USB PS2 Washable Keyboard	VF097AA#xxx
HP USB PS2 Washable Keyboard & Mouse	BU207AA#xxx
HP USB Smartcard CCID Keyboard	E6D77AA#xxx
HP (Bulk) USB Smartcard CCID Keyboard	E6D77A6#xxx
HP USB Grey Smartcard CCID Keyboard	J7H70AA#xxx
HP (Bulk) PS/2 Business Slim Keyboard	N3R86A6
HP USB Business Slim Keyboard	N3R87AA
HP (Bulk) USB Business Slim Keyboard	N3R87A6
HP Wireless Business Slim Keyboard and Mouse	N3R88AA
HP (Bulk) Wireless Business Slim Keyboard and Mouse	N3R88A6
HP USB Business Slim Keyboard and Mouse and MousePad	T4E63AA
HP (Bulk) USB Bus Slim Keyboard/Mouse/Mousepad	T4E63A6



Summary of Changes

Date of change:	Version History:		Description of change:
June 17, 2019	V1	Launch	
October 18, 2019	V1 to V2	Update	Call outs re-arranged in side view image, adding Standard lock slot
November 11, 2019	V2 to V3	Update	EPEAT references updated

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