Overview

HP ProDesk 600 G6 Desktop Mini PC



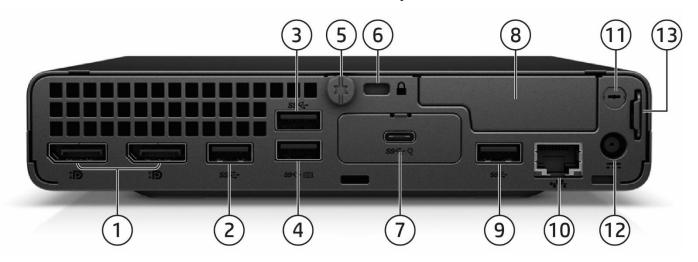
- Type-C[®] SuperSpeed USB 10Gbps signaling rate port (charge 4. support up to 5V/3A)
- 2. Type-A SuperSpeed USB 10Gbps signaling rate port
- 3. Type-A SuperSpeed USB 5Gbps signaling rate port (charge support up to 5V/1.5A)
- 4. Combo Audio Jack with CTIA and headset support
- 5. Dual-state power button
- 6. Hard drive activity light

Not Shown

- (3) M.2 (1 as M.2 2230 socket for WLAN/BT and 2 as M.2 2280 socket for storage)
- (1) 2.5" internal storage drive bay

Overview

HP ProDesk 600 G6 Desktop Mini PC

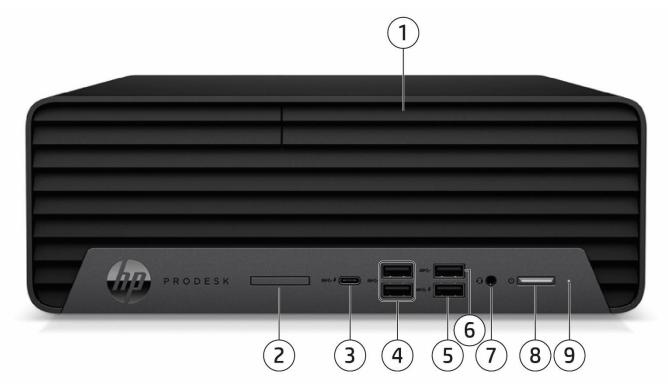


- (2) Dual-Mode DisplayPort™ 1.4 (DP++)
- 2. Type-A SuperSpeed USB 5Gbps signaling rate port
- Type-A SuperSpeed USB 5Gbps signaling rate port (Supporting 9. wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- Type-A SuperSpeed USB 10Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- 5. Cover release thumbscrew
- 6. Standard cable lock slot (10 mm)
- 7. Flex Port 1, choice of:
 - Thunderbolt™ 3¹
 VGA
 - DisplayPort Serial¹
 - HDMI 2.0a
 - Type-C[®] SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort™ Alt Mode and power intake via USB Type-C[®] Power Delivery up to 100W
- 1. Sold separately or as an optional feature
- 2. Must be configured at time of purchase

- 3. Flex Port 2², choice of:
 - 2x Type-A Hi-Speed USB 480Mbps signaling rate port
 - Serial
- 9. Type-A SuperSpeed USB 10Gbps signaling rate port
- 10. RJ45 network connector
- 11. External WLAN antenna opening²
- 12. Power connector
- 13. Retractable Padlock loop

Overview

HP ProDesk 600 G6 Small Form Factor PC



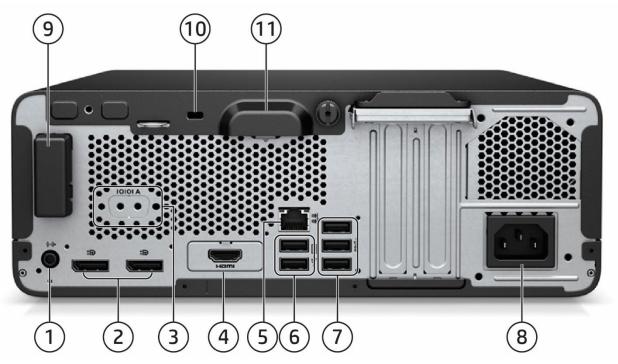
- 1. Slim optical drive (optional)
- 2. SD card 4.0 reader (optional)
- 3. Type-C® SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/3A)
- 4. (2) Type-A SuperSpeed USB 10Gbps signaling rate port
 - **Not Shown**
 - (1) PCI Express x16
 - (1) PCI Express x4
 - (2) M.2 (1 as M.2 2230 socket for WLAN/BT and 1 as M.2 2280 socket for storage)

- 5. Type-A SuperSpeed USB 5Gbps signaling rate port (charge support up to 5V/1.5A)
- 6. Type-A SuperSpeed USB 5Gbps signaling rate port
- 7. Combo Audio Jack with CTIA and headset support
- 8. Dual-state power button
- 9. Hard drive activity light



Overview

HP ProDesk 600 G6 Small Form Factor PC



- 1. Audio-out connector
- 2. (2) Dual-Mode DisplayPort™ 1.4 (DP++)
- 3. Serial port (optional)
- 4. Flex Port choice of:
 - DisplayPort™1.4
 VGA
 - HDMI 2.0a Serial
 - Dual Type-A SuperSpeed USB 5Gbps signaling rate
 - Type-C® SuperSpeed USB 10Gbps signaling rate with DisplayPort™ Alt mode

- 5. RJ45 network connector
- 6. (2) Type-A Hi-Speed USB 480Mbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- 7. (3) Type-A SuperSpeed USB 5Gbps signaling rate port
- 8. Power cord connector
- 9. Internal WLAN antenna cover (optional)
- 10. Standard cable lock slot
- 11. Integrated accessory cable lock

Not Shown

Port

Optional Thunderbolt™ 3 port card

Optional PS/2 & serial port card¹ (connected with mainboard via flyer cable)

Optional parallel port1

Optional 4 serial port PCIe card¹ (1 to 4 serial port dongle)

Bay

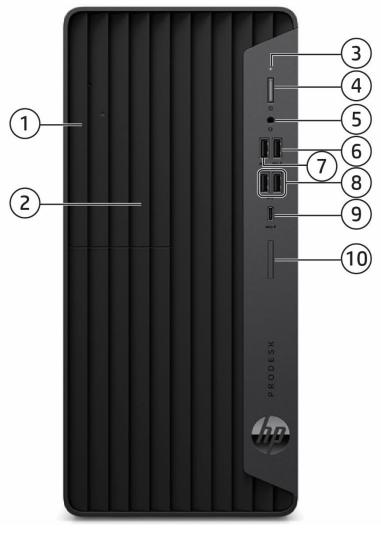
- (1) 9.5mm internal optical drive bay
- (1) 3.5" internal storage drive bay or (2) 2.5" internal storage drive bays²

2. SFF can be configured with either (1) 3.5" or (2) 2.5" internal storage drive (2.5-inch drive needs adapter that can only be purchased when configuring the PC from factory with a 2.5" drive)

^{1.} Each of the legacy port options would occupy one rear slot

Overview

HP ProDesk 600 G6 Microtower PC

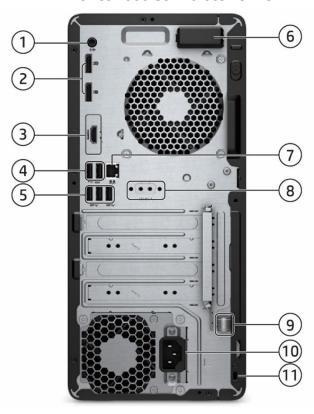


- 1. Slim optical drive (optional)
- 2. 5.25-inch drive bay (optional)
- 3. Hard drive activity light
- 4. Dual-state power button
- 5. Combo Audio Jack with CTIA and headset support
- 6. Type-A SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/1.5A)
 - **Not Shown**
 - (2) PCI Express x16 (one wired as an x4)
 - (1) PCI Express x1
 - (3) M.2 (1 as M.2 2230 socket for WLAN/BT and 2 as M.2 2280 socket for storage)

- 7. Type-A SuperSpeed USB 10Gbps signaling rate port
- 8. (2) Type-A SuperSpeed USB 10Gbps signaling rate port
- 9. Type-C® SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/3A)
- 10. SD card 4.0 reader (optional)

Overview

HP ProDesk 600 G6 Microtower PC



- **Audio-out connector** 1.
- 2. (2) Dual-Mode DisplayPort™ 1.4 (DP++)
- 3. Flex Port, choice of:
 - DisplayPort™1.4 VGA
 - HDMI 2.0a Serial
 - Dual Type-A SuperSpeed USB 5Gbps signaling rate
 - Type-C® SuperSpeed USB 10Gbps signaling rate with 11. Standard cable lock slot DisplayPort™ Alt mode
- (2) Type-A Hi-Speed USB 480Mbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)

- (3) Type-A SuperSpeed USB 5Gbps signaling rate port 5.
- Internal WLAN antenna cover (optional) 6.
- RJ45 network connector 7.
- 8. Serial port (optional)
- 9. Integrated accessory cable lock
- 10. Power cord connector

Not Shown

Port

Optional Thunderbolt[™] 3 port card

Optional PS/2 & serial port card1 (connected with mainboard via flyer cable)

Optional parallel port1

Optional 4 serial port PCIe card¹ (1 to 4 serial port dongle)

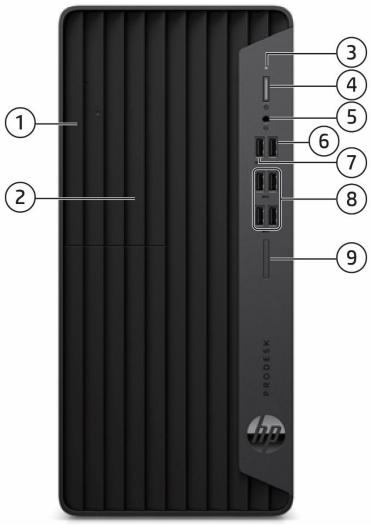
- (1) 5.25" internal half-height drive bay or (1) 3.5" internal storage drive bay
- (1) 3.5" internal storage drive bay or (1) 2.5" internal storage drive bay
- (1) 2.5" internal storage drive bay
- (1) 9.5mm internal optical drive bay

1. Each of the legacy options will occupy one rear slot.



Overview

HP ProDesk 600/680 G6 PCI Microtower PC



- Slim optical drive (optional)
- 2. 5.25-inch drive bay (optional)
- 3. Hard drive activity light
- 4. Dual-state power button
- 5. Combo Audio Jack with CTIA and headset support

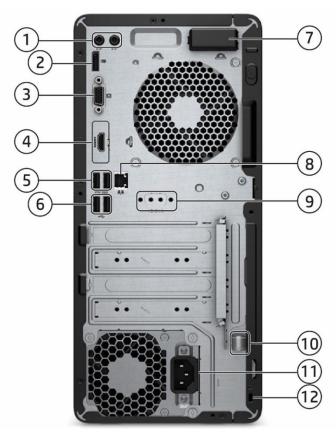
Not Shown

- (2) PCI Express x16 (one wired as an x4)
- (1) PCI Express x1
- (1) PCI x1
- (3) M.2 (1 as M.2 2230 socket for WLAN/BT and 2 as M.2 2280 socket for storage)

- Type-A SuperSpeed USB 5Gbps signaling rate port (charge support up to 5V/1.5A)
- 7. Type-A SuperSpeed USB 5Gbps signaling rate port
- 8. (4) Type-A SuperSpeed USB 10Gbps signaling rate port
- 9. SD card 4.0 reader (optional)

Overview

HP ProDesk 600/680 G6 PCI Microtower PC



- 1. Audio-in/out connector
- 2. Dual-Mode DisplayPort™ 1.4a (DP++)
- 3. VGA port
- 4. Flex Port, choice of:
 - DisplayPort™1.4
- VGA
- HDMI 2.0a
- Serial
- 5. (2) Type-A SuperSpeed USB 5Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)

Not Shown

Port

Optional PS/2 & serial port card¹ (connected with mainboard via flyer cable)

Optional parallel port1

Optional 4 serial port PCIe card¹ (1 to 4 serial port dongle)

- 6. (2) Type-A SuperSpeed USB 5Gbps signaling rate port
- 7. Internal WLAN antenna cover (optional)
- 8. RJ45 network connector
- 9. Serial port (optional)
- 10. Integrated accessory cable lock
- 11. Power cord connector
- 12. Standard cable lock slot

Bay

- (1) 5.25" internal half-height drive bay or (1) 3.5" internal storage drive bays
- (1) 3.5" internal storage drive bay or (1) 2.5" internal storage drive bay
- (1) 2.5" internal storage drive bay
- (1) 9.5mm internal optical drive bay

1. Each of the legacy options will occupy one rear slot.



Overview

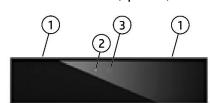
HP ProOne 600 G6 22 All-in-One PC (Touch & Non-Touch)



- 1. Pull-up webcam (optional)
- 2. Combo Audio Jack with CTIA and OMTP headset support
- 3. Speakers (optional)
- 4. SD media card reader (optional)
- 5. On-screen display (OSD) buttons

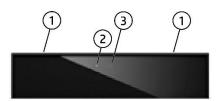
- 6. Power activity light.
- 7. Power button
- 8. Type-A SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/1.5A)
- 9. Type-C® SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/3A)





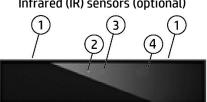
- 1. Dual microphones
- 2. Webcam light
- 3. HD webcam

5MP webcam (optional)



- 1. Dual microphones
- 2. Webcam light
- 3. 5MP webcam

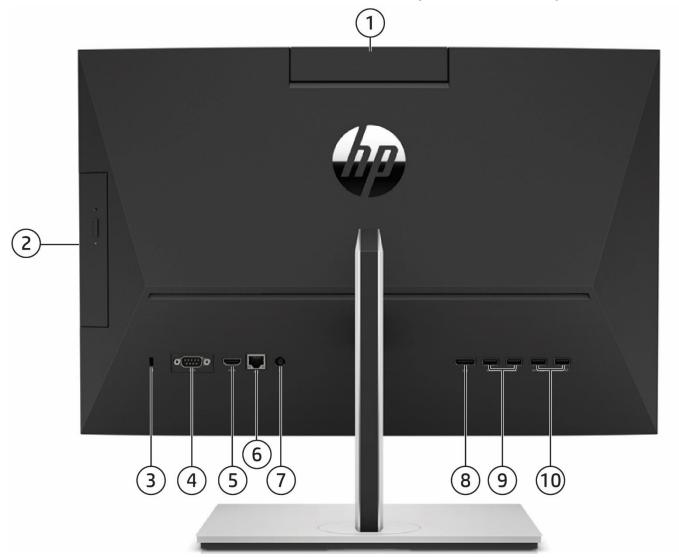
5MP webcam with Infrared (IR) sensors (optional)



- 1. Dual microphones
- 2. Webcam light
- 3. IR/5MP webcam
- 4. IR light

Overview

HP ProOne 600 G6 22 All-in-One PC (Touch & Non-Touch)



- 1. Pull-up webcam (optional)
- 2. Optical disc drive (optional)
- 3. Standard cable lock slot
- 4. Flex Port, choice of:
 - DisplayPort™
- Serial
- HDMI 2.0a
- 5. HDMI-in

- 6. RJ45 network connector
- 7. Power connector
- 8. Dual-Mode DisplayPort™ 1.4 (DP++)
- 9. (2) Type-A SuperSpeed USB 5Gbps signaling rate port
- (2) Type-A SuperSpeed USB 5Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)

Standard Features and Configurable Components

AT A GLANCE

- Choice of four form factors: Microtower, Small Form Factor, Desktop Mini, and All-in-One
- HP developed and engineered UEFI V2.7 BIOS supporting security, manageability and software image stability
- Latest commercial class Intel® 400 Series chipsets supporting latest Intel® 10th Generation Core™ processors¹, featuring integrated Intel® UHD Graphics
 - Intel Standard Manageability (ISM) comes standard for Intel® Core™ and Pentium™ configurations
 - Optional Intel® vPro™ Technology upgrade with selected Core™ i5 and Core™ i7 processors (vPro™ is optional and requires factory configuration)⁵
- Support of true 65W desktop class processors on all form factors
- Intel® Optane memory and storage available as optional feature
- Choice of Windows 10 Professional, Windows 10 Home, and FreeDOS
- Integrated 10/100/1000 Ethernet Controller, with optional Wi-Fi 6 (802.11ax) and Wi-Fi 5 (802.11ac) and Bluetooth®
- Up to 128 GB of DDR4 Synchronous Dynamic Random Access Memory (SDRAM) on MT and SFF, and up to 64 GB on DM and AiO
- Support for up to three video outputs via two standard video connectors and an optional third video port connector which provides the following choices: DisplayPort™, HDMI, VGA, or USB Type-C® with DisplayPort™ Output on MT/SFF/DM
- Reduce clutter on DM with single cable connection for power and video through USB Type-C® enabled displays with the
 optional USB Type-C® port w/ DisplayPort Alt Mode and power intake via USB Type-C® Power Delivery up to 100W; reduce
 desktop footprint with the DM mounted behind a USB-C™ enabled display or enable a "All-in-One" experience by docking
 into HP Mini-in-One 24 Display
- New flexibility is delivered by the All-in-One that can be used as a full PC or as an additional display for another desktop or laptop PC via the new HDMI in functionality
- Multiple HDD data drives set up in a SATA RAID array for MT/SFF and support RAID 1 configured from factory.
- Enable NVDIA® GeForce® VR ready² discrete graphic card and compatible with HP Reverb VR Headset7 on MT with 550W PSU.
- Optional Serial port available on all form factors
- Optimized chassis design for SFF enabling dual 2.5" internal storage drives
- Integrated accessory cable lock helps secure cabled mouse and keyboard on MT/SFF
- Trusted Platform Module (TPM) 2.0³
- HP Sure Run Gen3
- HP Sure Recover Gen3
- HP SureSense
- HP SureStart Gen6
- HP BIOSphere Gen6
- HP Client Security Manager Gen6
- HP Sure Click
- HP Manageability Integration Kit Gen4
- HP Image Assistant Gen5
- HP Support Assistant
- High efficiency energy saving power supply
- ENERGY STAR® certified. EPEAT ® 2019 registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country.⁶
- TUV Low Blue Light certified for All-in-One. To reach maximum performance, Low Blue Light setting should be enabled in On-screen display (OSD) settings and Night light mode should be turned on in Windows®
- Optimized for Microsoft Teams for All-in-One
- Low halogen⁴
- All form factors undergo up to 13 MIL-STD tests⁸
- Dust filter available for MT/SFF/DM
- Protected by HP Services, including limited warranties up to 3-3-3 (terms and conditions vary by country; certain restrictions and exclusions apply); Care Packs available with up to 5 years Next Business Day Onsite Hardware Support
- Compliance with CE (Class B) / FCC (Class B) / UL (UL60950-1 / UL62368-1) / CSA (CSA C22.2 No.60950-1-07 / CSA C22.2 No. 62368-1-14) / ICES-003 / CCC / VCCI (Class B) / KCC (Class B)



Standard Features and Configurable Components

- 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. VR-ready as optional feature, requires specific configuration for support
- 3. In some scenarios, machines pre-configured with Windows OS or FreeDOS might ship with TPM turned off
- 4 External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- 5. 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 dependent on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with future "virtual appliances" is yet to be determined.
- 6. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.
- 7. Availability may vary by country.
- 8. MIL-STD drop test not performed for All-in-Ones. MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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

PRODUCT NAME

HP ProDesk 600 G6 Desktop Mini PC HP ProDesk 600 G6 Small Form Factor PC HP ProDesk 600 G6 Microtower PC HP Prodesk 600 G6 PCI Microtower PC HP Prodesk 680 G6 PCI Microtower PC HP ProOne 600 G6 22 All-in-One PC

OPERATING SYSTEM

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

Licensing Agreement)¹ Windows 11 Pro Education¹

Windows 11 Home - HP recommends Windows 11 Pro for business¹

FreeDOS

Web Support Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)^{1,2}

- 1. Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).
- 2. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed interneet and Microsoft account required. ISP fees apply and additional requirements may apply over time for updates. See http://www.windows.com.

NOTE: HP tested Windows 10, version 1909 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282.



Standard Features and Configurable Components

SUPPORTED VERSIONS

HP tested Windows 10, version 1809 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282

CHIPSET

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Q470	X	X	X	Х



Standard Features and Configurable Components

PROCESSORS

Intel® 10 th Generation Core™ Processors	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Core™ i7-10700 Processor¹ 65W 2.9 GHz base frequency Up to 4.8 GHz max. turbo frequency with Intel® Turbo Boost Technology² 16 MB cache, 8 cores, 16 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2933 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	x	x	x	x
Intel® Core™ i7-10700T Processor¹ 35W 2.0 GHz base frequency Up to 4.5 GHz max. turbo frequency with Intel® Turbo Boost Technology² 16 MB cache, 8 cores, 16 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2933 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	х			x
Intel® Core™ i5-10600 Processor¹ 65W 3.3 GHz base frequency Up to 4.8 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	х	x	x	x
Intel® Core™ i5-10600T Processor¹ 35W 2.4 GHz base frequency Up to 4.0 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	x			x



	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Core™ i5-10500 Processor¹ 65W 3.1 GHz base frequency Up to 4.5 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	х	х	x	x
Intel® Core™ i5-10500T Processor¹ 35W 2.3 GHz base frequency Up to 3.8 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)³	х			x
Intel® Core™ i5-10400 Processor¹ 65W 2.9 GHz base frequency Up to 4.3 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	х	x	x
Intel® Core™ i5-10400T Processor¹ 35W 2.0 GHz base frequency Up to 3.6 GHz max. turbo frequency with Intel® Turbo Boost Technology² 12 MB cache, 6 cores, 12 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х			x
Intel® Core™ i3 10325 processor¹ 65W 3.9 GHz Base frequency 8MB cache, 4 cores Intel® UHD Graphics 630	х	х	х	х



	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Core™ i3-10320 Processor¹ 65W 3.8 GHz base frequency Up to 4.6 GHz max. turbo frequency with Intel® Turbo Boost Technology² 8 MB cache, 4 cores, 8 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	x	x	x
Intel® Core™ i3 10305 processor¹ 65W 3.8 GHz base frequency 8MB cache, 4 cores with Intel® UHD Graphics 630	х	х	x	х
Intel® Core™ i3 10305T processor¹ 35W 3.0 GHz base frequency 8MB cache, 4 cores with Intel® UHD Graphics 630	х			х
Intel® Core™ i3-10300 Processor¹ 65W 3.7 GHz base frequency Up to 4.4 GHz max. turbo frequency with Intel® Turbo Boost Technology² 8 MB cache, 4 cores, 8 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	х	x	x
Intel® Core™ i3-10300T Processor¹ 35W 3.0 GHz base frequency Up to 3.9 GHz max. turbo frequency with Intel® Turbo Boost Technology² 8 MB cache, 4 cores, 8 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х			x
Intel® Core™ i3 10105 processor¹ 65W 3.7 GHz base frequency 6MB cache, 4 cores with Intel® UHD Graphics 630	х	х	х	х
Intel® Core™ i3 10105T processor¹ 35W 3.0 GHz base frequency 6MB cache, 4 cores with Intel® UHD Graphics 630	х			х



	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Core™ i3-10100 Processor¹ 65W 3.6 GHz base frequency Up to 4.3 GHz max. turbo frequency with Intel® Turbo Boost Technology² 6 MB cache, 4 cores, 8 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	X	X	X
Intel® Core™ i3-10100T Processor¹ 35W 3.0 GHz base frequency Up to 3.8 GHz max. turbo frequency with Intel® Turbo Boost Technology² 6 MB cache, 4 cores, 8 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х			X

Intel® Pentium® Processors	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Pentium® Gold G6605 processor¹ 65W 4.3GHz base frequency 4 MB cache, 2 cores with Intel® UHD Graphics 630	х	х	х	х
Intel® Pentium® Gold G-6600 Processor¹ 58W 4.2 GHz base frequency 4 MB cache, 2 cores, 4 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	х	х	х
Intel® Pentium® Gold G6505 processor¹ 65W 4.2GHz base frequency 4 MB cache, 2 cores with Intel® UHD Graphics 630	х	х	х	х
Intel® Pentium® Gold G6505T processor¹ 35W 3.6GHz base frequency 4 MB cache, 2 cores with Intel® UHD Graphics 630	х			х
Intel® Pentium® Gold G-6500 Processor¹ 58W 4.1 GHz base frequency 4 MB cache, 2 cores, 4 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х	х	х	х



Standard Features and Configurable Components

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® Pentium® Gold G-6500T Processor¹ 35W 3.5 GHz base frequency 4 MB cache, 2 cores, 4 threads Intel® UHD Graphics 630 Supports DDR4 memory up to 2666 MT/s data rate	х			х
Intel® Pentium® Gold G6405 processor¹ 65W 4.1GHz base frequency 4 MB cache, 2 cores with Intel® UHD Graphics 610	x	х	x	х
Intel® Pentium® Gold G6405T processor¹ 35W 3.5GHz base frequency 4 MB cache, 2 cores with Intel® UHD Graphics 610	x			х
Intel® Pentium® Gold G-6400 Processor¹ 58W 4.0 GHz base frequency 4 MB cache, 2 cores, 4 threads Intel® UHD Graphics 610 Supports DDR4 memory up to 2666 MT/s data rate	x	х	x	х
Intel® Pentium® Gold G-6400T Processor¹ 35W 3.4 GHz base frequency 4 MB cache, 2 cores, 4 threads Intel® UHD Graphics 610 Supports DDR4 memory up to 2666 MT/s data rate	X			х

^{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 mea configuration surement of higher performance.

NOTE: Memory speed 2666 and 2933 MT/s can be achieved via two UDIMMs per channel (2DPC) when populated with the same part number.



^{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. See 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 dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.

Standard Features and Configurable Components

GRAPHICS

Integrated Graphics	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® UHD Graphics 630 (integrated on 10 th gen Core i7/i5/i3 processors and Pentium® Gold G-6600, G-6500, and G-6500T)	X	X	X	x
Intel® UHD Graphics 610 (integrated on Pentium® Gold G-6400, G-6400T)	X	X	X	X
Optional Discrete Graphics Solutions	<u>DM</u>	<u>SFF</u>	<u>MT*</u>	<u> AiO</u>
AMD® Radeon™ RX 550X 4GB FH DP+HDMI		X	X	
AMD® Radeon™ R7 430 2GB DP+VGA		X	X	
AMD® Radeon™ R7 430 2GB 2DP		X	X	
AMD® Radeon™ 520 1GB VGA+DP			X	
AMD® Radeon™ 630 with 2GB GDDR5**				X
NVIDIA® GeForce® RTX 2060 super 8GB DP+HDMI+DVI-D***			X	

^{*}standard 180W MT can support one single graphics card up to 75W or dual graphics cards up to 35W each.

^{***}NVIDIA® GeForce® RTX 2060 super 8GB DP+HDMI+DVI-D requires 550W power supply

Adapters and Cables	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u> AiO</u>
HP DisplayPort™ Cable	X	X	X	X
HP DisplayPort™ to DVI-D Adapter	X	X	X	X
HP DisplayPort™ to HDMI True 4K Adapter	X	X	X	X
HP DisplayPort™ to VGA Adapter	X	X	X	X
HP USB to Serial Port Adapter	X	X	X	X

STORAGE

3.5 inch SATA Hard Disk Drives (HDD) 500GB 7200RPM 3.5in SATA HDD 1TB 7200RPM 3.5in SATA HDD 2TB 7200RPM 3.5in SATA HDD	<u>DM</u>	SFF X X X	MT X X X	<u>AiO</u>
2.5 inch SATA Hard Disk Drives (HDD)	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
500GB 7200RPM 2.5in SATA HDD	X	X	X	X
1TB 7200RPM 2.5in SATA HDD	X	X	X	X
1TB 5400RPM 2.5in SATA HDD	X	X	X	X
2TB 5400RPM 2.5in SATA HDD	X	X	X	X
500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD*	X	X	X	X
500GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD*	X	X	X	x



^{**}AMD® Radeon™ 630 with 2GB GDDR5 must be configured at purchase

M.2 PCIe NMVe Solid State Drives (SSD)	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
256GB M.2 2280 PCIe NVMe SSD	X	X	X	X
512GB M.2 2280 PCIe NVMe SSD	X	X	X	X
128GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
256GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
512GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
1TB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
2TB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
256GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD*	X	X	X	X
512GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD*	X	X	X	X
256GB Intel® Optane™ Memory H10 with Solid State Storage*	X	X	X	X
512GB Intel® Optane™ Memory H10 with Solid State Storage*	X	X	X	X
Optical Disc Drives	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
HP 9.5mm Slim DVD-ROM Drive ¹		X	X	X
HP 9.5mm Slim DVD Writer Drive ²		X	X	X
HP 9.5mm Slim Blu-Ray Writer Drive ³		X	X	X

^{1.} 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.

^{3.} 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. HD-DVD movies cannot be played on this Desktop PC.

Media Card Reader	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
SD 4.0 with 5-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I, UHS-II)		X	X	
SD 3.0 with 4-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I)				X



^{2.} Don't copy copyright-protected materials.

Standard Features and Configurable Components

MEMORY

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u> AiO</u>
DDR4-2666 (Transfer rates up to 2666 MT/s*), 2 SODIMM	X			X
DDR4-3200 (Transfer rates up to 2933 MT/s**), 2 SODIMM	X			X
DDR4-2666 (Transfer rates up to 2666 MT/s*), 4 DIMM		X	X	
DDR4-3200 (Transfer rates up to 2933 MT/s**), 4 DIMM		X	X	

NOTE*: for i5 and below processor. **NOTE****: for i7 and i9 processor. **NOTE***

- 1. Actual system speed is determined by the processor configured. See processor specifications for supported memory data rate.
- 2. Memory speed 2666 and 2933 MT/s can be achieved via two UDIMMs per channel (2DPC) when populated with the same part number.
- 3. All memory slot are customer accessible/upgradeable.
- 4. For system configured with more than 3GB of memory and a 32-bit operation system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.

Memory Configuration

4GB (4GB x 1)	X	X	X	X
8GB (4GB x 2)	X	X	X	X
8GB (8GB x 1)	X	X	X	X
16GB (8GB x 2)	X	X	X	X
16GB (16GB x 1)	X	X	X	X
32GB (32GB x 1)	X	X	X	X
32GB (16GB x 2)	X	X	X	X
32GB (8GB x 4)		X	X	
64GB (32GB x 2)	X	X	X	X
64GB (16GB x 4)		X	X	
128GB (32GB x 4)		X	X	

NETWORKING/COMMUNICATIONS

Ethernet (RJ-45)	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Intel® I219-LM 1 Gigabit Network Connection LOM (vPro)	X	X	X	X
Intel® I210-T1 PCIe x1 Gigabit Network Interface Card (optional)		X	X	
Wireless ¹				
Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® wireless card M.2 Combo Card vPro™	X	X	X	X
Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® wireless card M.2 Combo Card non- vPro™	X	X	X	X
Realtek RTL8822CE 802.11ac 2x2 with Bluetooth® wireless card M.2 Combo Card	X	X	X	X
Realtek RTI 8821CF 802.11ac 1x1 with Bluetooth® wireless card M.2 Combo Card	X	X	X	X

^{1.} Wireless access point and Internet service required and not included. Availability of public wireless access points limited.



Standard Features and Configurable Components

KEYBOARDS AND POINTING DEVICES

Keyboards	<u>DM</u>	<u>SFF</u>	MT	<u>AiO</u>
HP PS/2 Business Slim Standalone Wired Keyboard		X	X	
HP Wired Desktop 320K Keyboard	X	X	X	X
HP USB Business Slim Wired SmartCard CCID Keyboard	X	X	X	X
HP USB & PS/2 Washable Standalone Wired Keyboard	X	X	X	X
HP USB Wired Keyboard	X	X	X	X
HP Universal USB Wired Keyboard	X	X	X	X
Keyboard & Mouse Combo	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
HP Premium Wireless Keyboard and Mouse	X	X	X	X
HP Premium USB Wired Keyboard and Mouse	X	X	X	X
HP Business Slim Wireless Keyboard and Mouse	X	X	X	X
HP USB PS/2 Washable Keyboard and Mouse Wired	X	X	X	X
Mouse	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
HP PS/2 Mouse		X	X	
HP Wired Desktop 320M Mouse	X	X	X	X
HP USB Optical Wired Mouse	X	X	X	X
HP USB Hardened Optical Wired Mouse	X	X	X	X
HP USB 1000dpi Laser Mouse	X	X	X	X
HP USB & PS/2 Washable Wired Mouse Standalone	X	X	X	X
HP USB Premium Wired Mouse	X	X	X	X
HP USB Fingerprint Mouse	X	X	X	X

NOTE: Availability may vary by country

Standard Features and Configurable Components

SECURITY

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
TPM 2.0 (FW: 7.85) endpoint security controller (Infineon SLB9670) shipped with Windows 10. Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified.	х	х	Х	X
Solenoid Lock & Intrusion Sensor (Optional)			X	
Intrusion Sensor (Optional)		X		
Intrusion Sensor (integrated in the system board, can be enabled/disabled through BIOS)	Х			Х
Support for chassis cable lock devices	X (10 mm barrel or smaller)	х	х	x
Support for chassis padlocks devices	X	X	X	
Support for table lock				X
SATA port disablement (via BIOS)	X	X	X	Х
Serial, USB enable / disable (via BIOS)	X	X	X	X
Intel® Identify Protection Technology (IPT)1	X	X	X	X
Removable media write/boot control	X	X	X	Х
Power-on password (via BIOS)	X	X	X	Х
Setup password (via BIOS)	X	X	X	Х

^{1.} Models configured with Intel® Core™ processors have the ability to utilize advanced security protection for online transactions. IPT, used in conjunction with participating web sites, provides double identity authentication by adding a hardware component in addition to the usual username and password. IPT is initialized through an HP Client Security module.

PORTS

Internal Slots and Ports

	<u>DM</u>	<u>SFF</u>	<u>MT</u>		<u>AiO</u>		
			<u>600</u>	600/680 PCI			
M.2 PCIe	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280 (for storage)	(for WLAN)	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280 (for storage)		WLAN) 0 (2) M.2 PCIe x4 2280		(1) M.2 PCIe x1 2230 (for WLAN) (1) M.2 PCIe x4 2280 (for storage)
PCI Express v3.0 x1			1	1			
PCI Express v3.0 x4		1					
PCI Express v3.0 x16 (wired as x4)			1	1			
PCI Express v3.0 x16		1	1	1			
PCI x1				1			
SATA port		3		4			
Integrated SATA storage connector	1				1		



Standard Features and Configurable Components

NOTE: For Desktop Mini with M.2 Storage config, there will be no SATA drive bracket. If you plan to use or upgrade the storage with any 2.5" SATA drive, please select a DM SATA Drive Bracket (available as both factory configured and after market option).

Bays	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
5.25" Half Height			1 ³	
9.5mm Slim Optical Disc Drive (ODD)		1	1	11
SD Card Reader		1	1	1
2.5" Internal Storage Drive	1	2 ²	1	1
3.5" Internal Storage Drive		1 ²	1 ⁴	

^{1.} Must be configured at time of purchase

Standard User Accessible Ports

	<u>DM</u>	<u>SFF</u>	<u>MT</u>		<u>AiO</u>
			600	600/680 PCI	
Type-A Hi-Speed USB 480Mbps signaling rate port		2 (rear)	2 (rear)		
Type-A SuperSpeed USB 5Gbps signaling rate port	1 (front) 2 (rear)	2 (front) 3 (rear)	3 (rear)	2 (front) 4 (rear)	4 (rear)
Type-A SuperSpeed USB 10Gbps signaling rate port	1 (front) 2 (rear)	2 (front)	4 (front)	4 (front)	1 (side)
Type-C [®] SuperSpeed USB 10Gbps signaling rate port	1 (front)	1 (front)	1 (front)		1 (side)
Video	2 DisplayPort™ 1.4 (rear)	2 DisplayPort™ 1.4 (rear)	2 DisplayPort™ 1.4 (rear)	1 DisplayPort™ 1.4 (rear) 1 VGA (rear)²	1 HDMI 1.4 in (rear) 1 DisplayPort™ 1.4 (rear)
Audio	1 Combo Audio Jack with CTIA and headset support (front)	1 Combo Audio Jack with CTIA and headset support (front)	1 Combo Audio Jack with CTIA and headset support (front)		1 Combo Audio Jack with CTIA and OMTP headset support (side)
Network Interface	1 RJ45 (rear)	1 RJ45 (rear)	1 RJ45	(rear)	1 RJ45 (rear)

^{2.} SFF can be configured with either (1) 3.5" or (2) 2.5" internal storage drive (2.5-inch drive needs adapter that can only be purchased when configuring the PC from factory with a 2.5" drive.)

^{3.} MT's 5.25" legacy bay can be configured as either (1) 5.25 half-height drive bay or (1) 3.5" internal storage drive bay (3.5-inch drive needs an adapter cage that can be purchased when configuring the PC from factory with a 3.5" drive or buy the adapter cage individually as an aftermarket-options part).

^{4.} MT's 3.5" bay can be configured as either (1) 3.5" internal storage drive bay or (1) 2.5" internal storage drive bay (2.5-inch drive needs an adapter that can only be purchased when configuring the PC from factory with a 2.5" drive).

Standard Features and Configurable Components

Rear Configurable Non-PCIe/PCI Slot User Accessible Ports

Flexible Port 1, choice of <u>one</u> of the following:	<u>DM</u>	<u>SFF</u>	<u>600</u>	600/680 PCI	<u>AiO</u>
Type-A USB		2 Type-A SuperSpeed USB 5Gbps signaling rate port	2 Type-A SuperSpeed USB 5Gbps signaling rate port		
Type-C [®] USB	1 SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort™ Alt Mode and power intake via USB Type-C® Power Delivery up to 100W	1 SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort™ Alt Mode	1 SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort™ Alt Mode		
Thunderbolt™ 3	1 ¹				
Video	1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0a <u>or</u> VGA	1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0a <u>or</u> VGA	1 DisplayPo HDMI 2.0a		1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0a
Serial (RS-232)	1 ¹	1	1		1

^{1.} Sold separately or as an optional feature

Flexible Port 2, choice of one of the following:

	<u>DM</u>	<u>SFF</u>	<u>M</u> 600	<u>600/680 PCI</u>	<u>AiO</u>
Type-A USB	2 Hi-Speed USB 480Mbps signaling rate ¹				
Thunderbolt™ 3		1	1		
Serial (RS-232)	1 ¹	1 ¹	1	1	

^{1.} Must be configured at time of purchase

Standard Features and Configurable Components

USB SPECIFICATION AND MARKETING NAME MAPPING TABLE

Marketing Name	Technical Terminology
Hi-Speed USB 480Mbps signaling rate	USB 2.0
SuperSpeed USB 5Gbps signaling rate	USB 3.2 Gen 1
SuperSpeed USB 10Gbps signaling rate	USB 3.2 Gen 2
SuperSpeed USB 20Gbps signaling rate	USB 3.2 Gen 2x2



Standard Features and Configurable Components

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Preinstalled Software

BIOS

HP BIOSphere Gen6¹ HP Secure Erase² HP DriveLock & Automatic DriveLock³ BIOS Update via Network Absolute Persistence Module⁴ Pre-boot Authentication

Software

HP Desktop Support Utility
HP JumpStart
HP Privacy Settings
HP Setup Integrated OOBE
HP Support Assistant⁵
HP Noise Cancellation Software
Buy Office (sold separately)
HP Smart Support⁶

Manageability Features

HP Driver Packs⁷

HP System Software Manager (SSM) (download)

HP BIOS Config Utility (BCU) (download)

HP Cloud Recovery8

HP Client Catalog (download)

HP Image Assistant Gen5

HP Manageability Integration Kit for Microsoft System Center Configuration Management Gen49 Ivanti Management Suite (download)¹⁰

Client Security Software

HP Client Security Manager Gen6¹¹ HP Power On Authentication Windows Defender¹²

Security Management

Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10. (Common Criteria EAL4+ Certified) Serial, USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)

Support for chassis padlocks and cable lock devices

HP Sure Sense¹³

HP Sure Click¹⁴

HP Sure Start Gen615

HP Sure Run Gen3¹⁶

HP Sure Recover Gen3¹⁷

- 1. HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.
- 2. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
- 3. Storage Drivelock does not work with Self Encrypting or Optane based storage.
- 4. 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



Standard Features and Configurable Components

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.

- 5. HP Support Assistant requires Windows and Internet access.
- 6. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: http://www.hp.com/smart-support. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.
- 7. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 8. HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630.
- 9. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html 10. Ivanti Management Suite subscription required.
- 11. HP Client Security Manager Gen6 requires Windows and is available on the select HP Elite and Pro PCs.
- 12. Windows Defender Opt In, Windows 10, and internet connection required for updates.
- 13. HP Sure Sense requires Windows 10.
- 14. HP Sure Click requires Windows 10 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.
 15. HP Sure Start Gen6 is available on select HP PCs.
- 16. HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- 17. HP Sure Recover Gen3 requires an open network connection. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.



Standard Features and Configurable Components

UNIT ENVIRONMENT 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 quidelines listed above will still apply.

Temperature Range Operating: 5° to 35° C¹

Non-Operating for AiO: -20° to 60° C¹

Non-Operating for MT/SFF/DM: -30° to 60° C1

Relative Humidity Operating: 5% to 90% (non-condensing at ambient)

Non-operating: 5% to 90% (non-condensing at ambient)

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50000ft (15240 m)

1. 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.



Standard Features and Configurable Components

ENVIRONMENTAL & INDUSTRY

HP Prodesk 600 G6 Desktop Mini PC

Eco-Label Certifications & declarations	labeled with one or more of these IT ECO declaration US ENERGY STAR® US Federal Energy Manage EPEAT® Gold registered in status in your country. TCO Certified China Energy Conservation China State Environment Taiwan Green Mark Korea Eco-label Japan PC Green label Commission Regulation (gement Program (FEMP) n the United States. See http://www	v.epeat.net for registration		
System Configuration	Desktop model is based on a Typi		oise Emissions data for the		
Energy Consumption (in accordance with US ENERGY STAR® test	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz		
method) Normal Operation (Short idle)	4.663 watt	4.699watt	4.6268 watt		
Normal Operation (Long idle)	4.469 watt	4.472watt	4.462watt		
Sleep	0.676 watt	0.726watt	0.656watt		
Off	0.668 watt	0.669watt	0.666watt		
Heat Dissipation*	HP computers marked with the ENERG Protection Agency (EPA) ENERGY STAI STAR® certified configurations, then e	for an ENERGY STAR® certified produc GY STAR® Logo are certified with the ap R® specifications for computers. If a m energy efficiency data listed is for a typ oply, and a Microsoft Windows® operat 230VAC, 50Hz	pplicable U.S. Environmental odel family does not offer ENERGY ically configured PC featuring a har		
Normal Operation (Short idle)	15.901 BTU/hr	16.024 BTU/hr	15.777 BTU/hr		
Normal Operation (Long idle)	15.239 BTU/hr	15.25 BTU/hr	15.215 BTU/hr		
Sleep	2.305 BTU/hr	2.476 BTU/hr	2.237 BTU/hr		
Off	2.278 BTU/hr	2.281 BTU/hr	2.271 BTU/hr		
	NOTE: Heat dissipation is calculated behour.	ased on the measured watts, assumin	g the service level is attained for or		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)		Sound Pressure (L _{pAm} , decibels)		
Typically Configured – Idle	2.7		16		
Fixed Disk – Random	2.7		17		



writes

2.7

	can be upgraded, possibly extending its useful life by sev /or components contained in the product may include:	eral years. Upgradeable		
• 2 SODIMM n	nemory slots			
• Interchange	eable M.2 PCIe NVME SSD & 2.5" SATA HDD			
Spare parts a production.	re available throughout the warranty period and or for up	o to "5" years after the end of		
This battery(s) in this product comply with EU Directive 2006/66/EC			
Batteries use	d in the product do not contain:			
Cadmium gre	ater than 20ppm by weight			
		(==)		
	t is in compliance with the Restrictions of Hazardous Sub	stances (RoHS) directive -		
	duct is designed to comply with the Waste Flectrical and I	Flectronic Equipment (WEFF)		
		tectionic Equipment (WLLL)		
		California; Safe Drinking Water		
and Toxic Enforcement Act of 1986).				
• This product contains a minimum of 35% post-consumer recycled (PCR) plastic (by wt.); including				
		of life		
• This product is 95.1% recycle-able when property disposed of at end of life.				
*Recycled plas	tic content percentage is based on the definition set in the IEEE	1680.1-2018 standard.		
External:	External Paper/Corrugated	562g		
Internal:		79g 16q		
This product				
		os or regulatory timits (refer to		
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 Codesium				
• Formaldehyde				
Halogenated Diphenyl Methanes				
Lead carbonates and sulfates				
Lead and Lead compounds				
• Nicket – 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)				
	ated Biphenyls (PBBs)			
 Polybromin 	ated Biphenyls (PBBs) ated Biphenyl Ethers (PBBEs)			
PolybrominPolybrominPolybromin	ated Biphenyl Ethers (PBBEs) ated Biphenyl Oxides (PBBOs)			
PolybrominPolybrominPolybrominPolychlorin	ated Biphenyl Ethers (PBBEs) ated Biphenyl Oxides (PBBOs) ated Biphenyl (PCB)			
PolybrominPolybrominPolybrominPolychlorinPolychlorin	ated Biphenyl Ethers (PBBEs) ated Biphenyl Oxides (PBBOs) ated Biphenyl (PCB) ated Terphenyls (PCT)			
PolybrominPolybrominPolybrominPolychlorinPolychlorinPolyvinyl Ch	ated Biphenyl Ethers (PBBEs) ated Biphenyl Oxides (PBBOs) ated Biphenyl (PCB)	tail packaging has been		
	• 2 SODIMM n • Interchange Spare parts a production. This battery(s) Batteries use Mercury great Cadmium greated and to the HP Gener http://www.f • Asbestos • Certain Azo • Cadmium • Chlorinated • Formaldehy • Halogenate • Lead and Lead and Lead and Lead and Lead and Lead and Lead ending finite finite specific product the HP Gener http://www.f • Asbestos • Certain Azo • Certain Broad ending for the HP Gener http://www.f • Asbestos • Certain Azo • Cadmium • Chlorinated • Chlorinated • Formaldehy • Halogenate • Lead carbor • Lead and Lead ending ending ending finite finite here in the h	• 2 SODIMM memory slots • Interchangeable M.2 PCIe NVME SSD & 2.5" SATA HDD Spare parts are available throughout the warranty period and or for up production. This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater than 1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium This product is in compliance with the Restrictions of Hazardous Subscion1/65/EC. This HP product is designed to comply with the Waste Electrical and EDirective – 2002/96/EC. This product is in compliance with California Proposition 65 (State of and Toxic Enforcement Act of 1986). Plastics parts weighing over 25 grams used in the product are marke This product contains a minimum of 35% post-consumer recycled (Pl 10% ITE-derived post-consumer recycled plastic.* This product is 95.1% recycle-able when properly disposed of at end *Recycled plastic content percentage is based on the definition set in the IEEE External: External Paper/Corrugated Internal: PLASTIC/Polyethylene Expanded - EPE PLASTIC/Polyethylene low density - LDPE This product does not contain any of the following substances in excest the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pc Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame recardinum Chlorinated Hydrocarbons Chlorinated Hydrocarbons 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 the surface d		



	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
	• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	• Use readily recyclable packaging materials such as paper and corrugated materials.
	 Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
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 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.
End-of-life Management	For more information about HP's commitment to the environment:
and Recycling	
	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

HP ProDesk 600 G6 Smal Eco-Label Certifications & declarations	This product has received or is in a labeled with one or more of these IT ECO declaration US ENERGY STAR® US Federal Energy Manage EPEATD Gold registered in status in your country. TCO Certified China Energy Conservation China State Environment Taiwan Green Mark Korea Eco-label Japan PC Green label	gement Program (FEMP) n the United States. See http://www.				
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	115VAC, 60Hz 230VAC, 50Hz 100VAC, 60Hz					



ENERGY STAR® test method)					
Normal Operation (Short idle)	5.40 watt	5.27 v	vatt	5.39 watt	
Normal Operation (Long idle)	4.25 watt	4.08 v	vatt	4.19 watt	
Sleep	0.79 watt	0.79 v	0.79 watt		
Off	0.67 watt	0.67 watt		0.67 watt	
	NOTE: Energy efficiency data listed is HP computers marked with the ENER Protection Agency (EPA) ENERGY STA STAR® certified configurations, then disk drive, a high efficiency power sup	GY STAR® Logo are ce R® specifications for c energy efficiency data	rtified with the app computers. If a mod listed is for a typic	olicable U.S. Environmental del family does not offer ENERGY cally configured PC featuring a hard	
Heat Dissipation*	115VAC, 60Hz	230VAC	, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	18.414 BTU/hr	17.9707	BTU/hr	18.3799 BTU/hr	
Normal Operation (Long idle)	14.4925 BTU/hr	13.9128	BTU/hr	14.2879 BTU/hr	
Sleep	2.6939 BTU/hr	2.6939 E	3TU/hr	2.6939 BTU/hr	
Off	2.2847 BTU/hr	2.2847 E	BTU/hr	2.2847 BTU/hr	
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.				
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)			Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	3.2	24		24	
Fixed Disk – Random writes	3.2	3.2 24			
Longevity and Upgrading	This product can be upgraded, po features and/or components cont • 4 DIMM memory slots • Interchangeable M.2 PCIe NVME Spare parts are available through production.	sained in the productions SSD & 2.5"/3.5" SA out the warranty po	t may include: TA HDD eriod and or for u		
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC				
	Batteries used in the product do n Mercury greater than 1ppm by we Cadmium greater than 20ppm by Battery size: CR2032 (coin cell)	eight			
	Battery type: Lithium				
Additional Information	 This product is in compliance with 2011/65/EC. This HP product is designed to compliance with 2012/96/EC. This product is in compliance with 2012/96/EC. This product is in compliance with 2012/96/EC. Plastics parts weighing over 25 	omply with the Was th California Propos 86). grams used in the p	ste Electrical and sition 65 (State of oronge)	Electronic Equipment (WEEE) f California; Safe Drinking Water ed per ISO11469 and ISO1043.	
	This product contains a minimur 10% ITE-derived post-consumer i		sumer recycled (F	PCR) plastic (by wt.); including	



	• This produ	• This product is 95.1% recycle-able when properly disposed of at end of life.			
	*Recycled pla	stic content percentage is based on the definition set in	the IEEE 1680.1-2018 standard.		
Packaging Materials	External:	PAPER/Corrugated	1019g		
(vary by country)	Internal:	PLASTIC/Expanded Polyethylene – EPE or PAPER/molded fiber-pulp	414g		
		PLASTIC/Polyethylene low density - LDPE PAPER/Molded Pulp	29g		
Material Usage	the HP Gene http://www. Asbestos Certain Azo Certain Bro Cadmium Chlorinate Chlorinate Formaldeh Halogenat Lead carbo Lead and L Mercuric O Nickel – fin carried by th Ozone Dep Polybromio Polybromio Polychlorir Polychlorir Voluntarily r	This product does not contain any of the following substances in excess of regulatory limits (refer 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 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 (PCB) - 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			
Packaging Usage	 Eliminate t materials. Eliminate t Design pac Maximize t Use readily Reduce siz 	these guidelines to decrease the environmental imposterior in the use of heavy metals such as lead, chromium, much the use of ozone-depleting substances (ODS) in packaging materials for ease of disassembly. The use of post-consumer recycled content materials recyclable packaging materials such as paper and the eand weight of packages to improve transportations.	ercury and cadmium in packaging ckaging materials. als in packaging materials. I corrugated materials. on fuel efficiency.		
End-of-life Management and Recycling	t HP Inc. offer recycle your	 Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. 			
	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				

Standard Features and Configurable Components

instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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

HP ProDesk 600 G6 Microtower Series

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®
- US Federal Energy Management Program (FEMP)
- EPEAT[®] Gold registered in the United States. See http://www.epeat.net for registration status in your country.
- TCO Certified
- China Energy Conservation Program (CECP)
- China State Environmental Protection Administration (SEPA)
- Taiwan Green Mark
- Korea Eco-label
- Japan PC Green label
- Commission Regulation (EC) No 617/2013 (ErP Lot 3)

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, 50Hz
Normal Operation (Short idle)	12.199 W	12.43 W	12.032 W
Normal Operation (Long idle)	10.563 W	10.924 W	10.335 W
Sleep	0.793 W	0.815 W	0.795 W
Off	0.701 W	0.699 W	0.71 W

NOTE: Energy efficiency data listed is for an ENERGY STAR® certified product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are certified with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® certified configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	41.60 BTU/hr	42.39 BTU/hr	41.03 BTU/hr
Normal Operation (Long idle)	36.02 BTU/hr	37.25 BTU/hr	35.24 BTU/hr
Sleep	2.71 BTU/hr	2.78 BTU/hr	2.71 BTU/hr
Off	2.4 BTU/hr	2.38 BTU/hr	2.42 BTU/hr



	NOTE: Heat di hour.	ssipation is calculated based on the measured	vatts, assuming the service level is attaine	ed for one		
Declared Noise						
Emissions		Sound Power	Sound Pressure			
(in accordance with		(L _{WAd} , bels)	(L _{pAm} , decibels)	(L _{pAm} , decibels)		
ISO 7779 and ISO 9296)		. , ,	, ,			
Typically Configured –		3.26	22.4			
Idle	J.2U 22. 4					
Fixed Disk – Random	3.42 23.5					
writes						
Longevity and Upgrading	features and • 4 DIMM me		nay include:	le		
	• Interchang	eable M.2 PCIe NVME SSD & 2.5"/3.5" SATA	нии			
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.					
Batteries		(s) in this product comply with EU Directive	2006/66/EC			
	Batteries used in the product do not contain:					
	Mercury greater than 1ppm 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 (EPEAT) standard at the <gold> level, see www.epeat.net</gold>					
	• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.					
	• This product contains 44.4% post-consumer recycled plastic (by wt.)					
	• This product is 93.7% recycle-able when properly disposed of at end of life.					
Packaging Materials	-	PAPER/Corrugated	T.			
(vary by country)	External:	PAPER/Corrugated PAPER/Molded Pulp	1110 g 620 g			
(vary by country)	Internal:	PLASTIC/Polyethylene low density	32 g			
Material Usage				refer to		
riateriat osage	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 Paraffins					
	Chlorinated Paraffins Formaldehyde					
	• Formaldehyde					
	Halogenated Diphenyl Methanes Lead carbonates and sulfates					
	• Lead and Lead compounds					
	Mercuric Oxide Batteries					



Standard Features and Configurable Components

	Nickel – finishes must not be used on the external surface designed to be frequently handled or
	carried by the user.
	Ozone Depleting Substances Park the project of Richards (RRPa)
	Polybrominated Biphenyls (PBBs) Polybrominated Biphenyls (PBBs) Polybrominated Biphenyls (PBBs)
	Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Oxides (PBBOs)
	Polybrominated Biphenyl Oxides (PBBOs) Polybrominated Biphenyl (ASP)
	Polychlorinated Biphenyl (PCB) Polychlorinated Touch or ula (PCT)
	Polychlorinated Terphenyls (PCT) Polychiad Chlorida (PVC) Associated and college and coll
	• 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)
Packaging Usage	
rackaging osage	HP follows these guidelines to decrease the environmental impact of product packaging:
	• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
	• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
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 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 0EM
	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.bp.com/bpinfo/globalcitizenchip/environment/pdf/covt.pdf
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

HP ProDesk 600 PCI G6 Microtower PC

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®		
US Federal Energy Management Program (FEMP)		
• EPEAT [®] Gold registered in the United States. See http://www.epeat.net for registration		
status in your country.		
TCO Certified		
China Energy Conservation Program (CECP)		
China State Environmental Protection Administration (SEPA)		



Standard Features and Configurable Components

	Taiwan Green Mark Korea Eco-label			
	 Korea Eco-tabet Japan PC Green label Commission Regulation (EC) No 617/2013 (ErP Lot 3) 			
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, 50		100VAC, 50Hz
Normal Operation (Short idle)	12.199 W	12.43 W		12.032 W
Normal Operation (Long idle)	10.563 W	10.924 W	!	10.335 W
Sleep Off	0.793 W 0.701 W	0.815 W 0.699 W		0.795 W 0.71 W
	NOTE: Energy efficiency data listed is f HP computers marked with the ENERG Protection Agency (EPA) ENERGY STAR STAR® certified configurations, then er disk drive, a high efficiency power supp	Y STAR® Logo are certific ® specifications for comp nergy efficiency data list	ed with the applic puters. If a model ed is for a typical	able U.S. Environmental I family does not offer ENERGY Iy configured PC featuring a hard
Heat Dissipation*	115VAC, 60Hz	230VAC, 50	Hz	100VAC, 50Hz
Normal Operation (Short idle)	41.60 BTU/hr	42.39 BTU/	hr	41.03 BTU/hr
Normal Operation (Long idle)	36.02 BTU/hr	37.25 BTU/hr		35.24 BTU/hr
Sleep	2.71 BTU/hr	2.78 BTU/hr		2.71 BTU/hr
Off	2.4 BTU/hr	2.38 BTU/hr 2.42 BTU/		2.42 BTU/hr
	NOTE: Heat dissipation is calculated be hour.	ased on the measured wa	atts, assuming th	e service level is attained for one
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power Sound Pressure (L _{pAm} , decibels)			
Typically Configured – Idle	3.26 22.4			22.4
Fixed Disk – Random writes	3.42 23.5			
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: • 4 DIMM memory slots • Interchangeable M.2 PCIe NVME SSD & 2.5"/3.5" SATA HDD Spare parts are available throughout the warranty period and or for up to "5" years after the end of			
Batteries	production. This battery(s) in this product com Batteries used in the product do no Mercury greater than 1ppm by wei Cadmium greater than 20ppm by v	ot contain: ght	2006/66/EC	
	Battery size: CR2032 (coin cell)	J -		



Standard Features and Configurable Components

	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 (EPEAT) standard at the <gold> level, see www.epeat.net</gold> Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 44.4% post-consumer recycled plastic (by wt.) This product is 93.7% recycle-able when properly disposed of at end of life. 			
Packaging Materials	External:	PAPER/Corrugated	1110 g	
(vary by country)		PAPER/Molded Pulp	620 g	
	Internal:	PLASTIC/Polyethylene low density	32 g	
Packaging Usage	http://www.l Asbestos Certain Azo Certain Bro Cadmium Chlorinated Formaldehy Halogenate Lead carbon Lead and Le Mercuric Ox Nickel – finicarried by the Ozone Depl Polybromin Polybromin Polybromin Polychlorin Polychlorin Polychlorin Tributyl Tin	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 		
	 Eliminate the materials. Eliminate the Design packet Maximize the Use readily Reduce size 	ne use of heavy metals such as lead, chromium, mercury a ne use of ozone-depleting substances (ODS) in packaging kaging materials for ease of disassembly. The use of post-consumer recycled content materials in packaging materials such as paper and corrugate and weight of packages to improve transportation fuel exaging materials are marked according to ISO 11469 and I	and cadmium in packaging materials. ckaging materials. ated materials. fficiency.	



Standard Features and Configurable Components

End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
	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

labeled with one or more of these marks:

This product has received or is in the process of being certified to the following approvals and may be

HP ProDesk 680 PCI G6 Microtower PC

Eco-Label Certifications

& declarations

	 IT ECO declaration US ENERGY STAR® US Federal Energy Management Program (FEMP) EPEAT[®] Gold registered in the United States. See http://www.epeat.net for registration status in your country. TCO Certified China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label Commission Regulation (EC) No 617/2013 (ErP Lot 3) 				
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for th Desktop model is based on a "Typically Configured Desktop".				
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz				
Normal Operation (Short idle)	12.199 W	12.43 W	12.032 W		
Normal Operation (Long idle)	10.563 W	10.924 W	10.335 W		
Sleep	0.793 W	0.815 W	0.795 W		
Off	0.701 W	0.699 W	0.71 W		

Standard Features and Configurable Components

	STAR® certified configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Heat Dissipation*	115	VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	41.	60 BTU/hr	42.39 BTU/hr	41.03 BTU/hr
Normal Operation (Long idle)	36.	02 BTU/hr	37.25 BTU/hr	35.24 BTU/hr
Sleep	2.7	'1 BTU/hr	2.78 BTU/hr	2.71 BTU/hr
Off	2.	4 BTU/hr	2.38 BTU/hr	2.42 BTU/hr
	NOTE: Heat dishour.	ssipation is calculated b	ased on the measured watts, as	suming the service level is attained for one
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (LwAd, bels) Sound Pressure (LpAm, decibels)			
Typically Configured – Idle		3.26		22.4
Fixed Disk – Random writes		3.42		23.5
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: • 4 DIMM memory slots • Interchangeable M.2 PCIe NVME SSD & 2.5"/3.5" SATA HDD 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 than 1ppm 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 Waand Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the <gold> level, see www.epeat.net</gold> Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO104 This product contains 44.4% post-consumer recycled plastic (by wt.) This product is 93.8% recycle-able when properly disposed of at end of life. 			
Packaging Materials	External:	PAPER/Corrugated		1110 g
(vary by country)	322-2-44	PAPER/Molded Pul		620 g
·	Internal:	PLASTIC/Polyethyl		32 g
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer t the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): • Asbestos • Certain Azo Colorants			



Standard Features and Configurable Components

	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
	• Cadmium
	Chlorinated Hydrocarbons
	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 Fthera (PBBs)
	Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Ethers (PBBEs)
	Polybrominated Biphenyl Oxides (PBBOs)
	Polychlorinated Biphenyl (PCB) 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)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging
	materials.
	• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
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 HP
and Kecycung	sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The FILMESS directive (2002/05/56) requires manufacturers to provide treatment information for
	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

Standard Features and Configurable Components

HP ProDesk 600 G6 22 All-in-One PC

HP ProDesk 600 G6 22 Al				
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® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label • Commission Regulation (EC) No 617/2013 (ErP Lot 3)			
System Configuration	The configuration used for the Ene Desktop model is based on a "Typion"		Noise Emissions data for the	
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	17.07 W	18.19 W	16.43 W	
Normal Operation (Long idle)	5.53 W	6.28 W	4.29 W	
Sleep	0.94 W	1.01 W	0.86 W	
Off	0.75 W 0.76 W		0.66 W	
	NOTE: Energy efficiency data listed is f HP computers marked with the ENERG Protection Agency (EPA) ENERGY STAR STAR® certified configurations, then er disk drive, a high efficiency power supp	Y STAR® Logo are certified with the ® specifications for computers. If a nergy efficiency data listed is for a t	applicable U.S. Environmental model family does not offer ENERGY spically configured PC featuring a hard	
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	58.2087 BTU/hr 62.0279 BTU/hr		56.0263 BTU/hr	
Normal Operation (Long idle)	18.8573 BTU/hr 21.4148 BTU/hr		14.6289 BTU/hr	
Sleep	3.2054 BTU/hr	3.441 BTU/hr	2.9326 BTU/hr	
Off	2.5575 BTU/hr	2. 5916BTU/hr	2.2506 BTU/hr	
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for hour.			
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels) Sound Pressure (L _{PAm} , decibels)			
Typically Configured — Idle	2.8		17.2	
Fixed Disk – Random writes	3.3		20	
Longevity and Upgrading	This product can be upgraded, post features and/or components conta			



Standard Features and Configurable Components

		memory slots eable M.2 PCIe NVME SSD & 2.5" SATA HDD	
	production.	are available throughout the warranty period and (-
Batteries	This battery((s) in this product comply with EU Directive 2006/6	66/EC
	Mercury grea	ed in the product do not contain: ater than 1ppm by weight eater than 20ppm by weight	
	Battery size: Battery type	CR2032 (coin cell) : Lithium	
Additional Information	2011/65/EC. This HP produce This produce and Toxic En Plastics pare This produce 10% ITE-derivative This produce 10% ITE-deri	duct is designed to comply with the Waste Electric	cal and Electronic Equipment (WEEE) State of California; Safe Drinking Wate e marked per ISO11469 and ISO1043. ycled (PCR) plastic (by wt.); including
		stic content percentage is based on the definition set in	
Packaging Materials	External:	PAPER/Corrugated	1446 g
(vary by country)	Internal:	PLASTIC/Polyethylene Expanded - EPE	432 g
		PLASTIC/Polyethylene low density - LDPE	36 g
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 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 (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		



Standard Features and Configurable Components

Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging
	materials.
	Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
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 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.
	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



Standard Features and Configurable Components

SERVICE AND SUPPORT

On-site Warranty¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day² service for parts and labor and includes free support 24 x 7³. 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. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.⁴

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 2. 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.
- 3. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 4. 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.



Technical Specifications - Processors

PROCESSORS

Intel® 10th Generation Core™ Processors

All HP ProDesk & ProOne 600 G6 Business PC models featuring this technology include processors that are part of the Intel® Stable Image Platform Program (SIPP) designed to ensure the stability promise inherent in the value proposition of the HP ProDesk and ProOne 600 G6 Business PC.

Intel® Advanced Management Technology (AMT) v12¹ – An advanced set of remote management features and functionality which provides network administrators the latest and most effective tools to remotely discover, heal, and protect networked client systems regardless of the system's health or power state. AMT 12 includes the following advanced management functions:

- Support for configuration of Intel AMT 12.0 capabilities
- · No reset after provisioning
- Support for Intel Enterprise Digital Fence
- The Platform Discovery Utility can now discover these additional Intel products:
 - Intel Identity Protection Technology with One Time Password
 - Public Key Infrastructure
 - Multi Factor Authentication
- Profile Editor and Profile Editor Plugin Interface
- · Required Permissions for Solutions Framework

1. Intel® Active Management Technology requires an Intel® AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes.



Technical Specifications – All-in-One Stand Specifications

DISPLAY PANEL SPECIFICATIONS¹

HP ProOne 600 G6 22 All-in-One PC

21.5" diagonal IPS widescreen WLED backlit anti-glare LCD (1920 x 1080)

Non-touch or optional touch

Projected Capacitive Touch supports up to 10 touch-points

Non-touch supports HW low blue light feature

Type IPS WLED Backlit LCD Active area (mm) 476.064 x 267.786

Native Resolution (HxV) 1920 x 1080

Refresh Rate 60 Hz @ 1920 x 1080

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.24795 x 0.24795

Contrast ratio (typical)1000:1Brightness (typical)250nitsViewing angle (typical) (HxV)178° x 178°

Backlight lamp life (to half brightness) 30,000 hours minimum

Color support Up to 16.7 million colors with the use of FRC technology

Color gamut (typical) NTSC 72%

Anti-glare Yes

Response Time 14ms (Typical) **Default color temperature** Warm (6500K)

Hardware based low blue light Available on non-touch variant

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



Technical Specifications – All-in-One Stand Specifications

ALL-IN-ONE STAND SPECIFICATIONS

HP ProOne 600 G6 22 All-in-One PC

156.5

Cantilever Stand (Fixed Tilt Angle -5° to +20° **Height Tilt Stand) Rotation (Swivel)** None **Pivot** None - 488.7

192



Technical Specifications – All-in-One Stand Specifications

Adjustable Height Stand Height Adjustment (Landscape Mode) 5.12 in / 130 mm **Height Adjustment (Portrait Mode)** N/A Tilt Angle -5° to +20° **Rotation (Swivel)** ±45° **Pivot** None - 488.7 201.5 265 488.7 201.5 265

Technical Specifications – Graphics

GRAPHICS

Memory

Intel® UHD Graphics (integrated)

Integrated **Graphics Controller**

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

Stream Technology for a maximum of 3 displays connected to any output controlled by Intel®

Graphics

Supports HDMI 2.0a features

HDMI Supports HDCP 2.2

Supports audio over HDMI

VGA VGA output

USB-C™ DP Alt Mode DisplayPort™ over the USB-C™ module

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

VP9 10b Dec HW

Graphics/Video API Support HDR

Rec. 2020

DX12

Max. Resolution (VGA) 2048 x 1536@60Hz Max. Resolution (HDMI) 4096 x 2160@60Hz Max. Resolution (DP) 4096 x 2160@60Hz

AMD® Radeon™ RX 550X 4 GB PCIe x16

Engine Clock 1183MHz **Memory Clock** 6 Gbps Memory Size(width) 4 GB(128-bit) **Memory Type** GDDR5

Max. Resolution(HDMI) 4096x2160 @ 60Hz Max. Resolution(DP) 5120x2880 @ 60Hz

Multi Display Support 2 displays **HDCP Compliance** Yes Rear I/O connectors(bracket) HDMI. DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W)

PCB form-factor with bracket LP (low profile) PCB with FH/LP bracket

AMD® Radeon™ RX 580 8GB GDDR5 Graphics Card

Engine Clock 1266 MHz **Memory Clock** 4000 MHz Memory Size(width) 8 GB (256-bit) **Memory Type** 256M x 32 GDDR5 Max. Resolution(HDMI) 4096x2160@60Hz



Technical Specifications – Graphics

Max. Resolution(DP) 5120x3200@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors(bracket) HDMI + DPx3

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <150W

PCB form-factor with bracket ATX (Full height) PCB with ATX dual slot bracket

AMD® Radeon™ R7 430 2GB VGA+DP 64bit Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size(width)2 GB(64-bit)Memory Type256M x 32 GDDR5Max. Resolution(HDMI)2048x1536

Max. Resolution(DP) 4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceYesRear I/O connectors(bracket)VGA+DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket

AMD® Radeon™ R7 430 2GB GDDR5 2DP 64 bit Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size(width)2 GB(64-bit)Memory Type256M x 32 GDDR5Max. Resolution(DP)4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceyesRear I/O connectors(bracket)DPx2

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket

AMD Radeon™ 520 1GB Graphics Card

 Engine Clock
 780 MHz

 Memory Clock
 1150 MHz

 Memory Size(width)
 1 GB (32-bit)

 Memory Type
 256M x 32 GDDR5

 Max. Resolution(DP)
 2048x1536@60Hz

Multi Display Support 2 displays
HDCP Compliance Yes
Rear I/O connectors(bracket) VGA+DP



Technical Specifications – Graphics

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket PCB with FH bracket

AMD Radeon™ 630 with 2 GB GDDR5 Graphics Card

Memory 2 GB 64-bit wide frame buffer operating at 1125MHz. **Controller Clock Speed** AMD Radeon™ 630 GPU operating at 1024 MHz

Architecture Hybrid Graphics

AMD GPU uses Intel graphics controller for display control

Bus Connection PCIE 3.0 x8

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL2.0, UVD, Mantle, AMD LiquidVR™

Display support Same as for the Intel integrated graphics solution

 Max. Resolution (HDMI)
 4096 X 2160@60Hz

 Max. Resolution (DP)
 4096 X 2160@60Hz

NVIDIA® GeForce® RTX 2060 Super 8 GB Graphics Card

 Engine Clock
 1650 MHz

 Memory Clock
 7000 MHz

 Memory Size(width)
 8 GB(256-bit)

 Memory Type
 256M x 32 GDDR6

 Max. Resolution(DVI)
 2560x1600@60Hz

 Max. Resolution(HDMI)
 4096x2160@60Hz

 Max. Resolution(DP)
 7680x4320@60Hz

Multi Display Support 3 displays

HDCP Compliance Yes

Rear I/O connectors(bracket) DVI+HDMI+DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <175W

PCB form-factor with bracket ATX (Full height) PCB with ATX dual slot bracket



Technical Specifications – Storage

HARD DISK AND SOLID STATE STORAGE

500GB 7200RPM 3.5in SATA HDD

Capacity500GBRotational Speed7,200 rpmInterfaceSATA 6.0 Gb/s

Buffer Size 32MB

Logical Blocks976,773,168Seek Time11 ms (Average)Height1in/2.54cm

Width Media diameter: 3.5 in/8.89 cm

Physical size: 4 in/10.2 cm

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.

1TB 7200RPM 3.5in SATA HDD

Capacity 1TB

Rotational Speed 7,200 rpm Interface SATA 6 Gb/s 64MB

Butter Size 64ME

Logical Blocks1,953,525,168Seek Time11 ms (Average)Height1in/2.54cm

Width (nominal) Media diameter: 3.5 in/8.89 cm

Physical size: 4 in/10.2 cm

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.

2TB 7200RPM 3.5in SATA HDD

Capacity 2TB

Rotational Speed 7,200 rpm **Interface** SATA 6 Gb/s **Buffer Size** 64MB

 Logical Blocks
 3,907,050,336

 Seek Time
 11 ms (Average)

 Height
 1.028in/26.11mm

Width (nominal) Media diameter: 3.5 in/88.9 mm

Physical size: 4 in/102 mm

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



Technical Specifications – Storage

500GB 7200RPM 2.5in SATA HDD

500GB Capacity **Rotational Speed** 7,200 rpm Interface SATA 6 Gb/s Up to 128MB **Buffer Size Logical Blocks** 976,773,168 **Seek Time** 12 ms (Average) 0.283in/7.2mm (Max.) Height Width (nominal) 2.75in/70mm (nominal) 41° to 131° F (5° to 55° C) **Operating Temperature**

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.

1TB 7200RPM 2.5in SATA HDD

Capacity 1TB **Rotational Speed** 7,200 rpm Interface SATA 6 Gb/s **Buffer Size** Up to 128MB **Logical Blocks** 1,953,525,168 **Seek Time** 12 ms (Average) Height 0.374in/9.5mm (Max.) Width (nominal) 2.75in/70mm (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.

1TB 5400RPM 2.5in SATA HDD

Capacity1 TBRotational Speed5,400 rpmInterfaceSATA 6 Gb/sBuffer SizeUp to 128 MBLogical Blocks1,953,525,168Seek Time12ms (Average)

 Height
 0.283 in/7.2 mm (Max.)

 Width (nominal)
 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.

2TB 5400RPM 2.5in SATA HDD

Capacity2TBRotational Speed5,400 rpmInterfaceSATA 6 Gb/sBuffer Size128MB



Technical Specifications – Storage

Logical Blocks 3,907,050,336 **Seek Time** 12 ms (Average)

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



Technical Specifications – Storage

500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD

Capacity 500GB

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

Interface SATA 6 Gb/s
Buffer Size 128MB
Logical Blocks 976,773,168
Seek Time 12 ms (Average)
Height 0.283in/7.2mm (Max)
Width 2.75in/70mm (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.

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

Capacity 500GB

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

Interface SATA 6 Gb/s

Buffer Size 128MB

Logical Blocks 976,773,168

Seek Time 12 ms (Average)

Height 0.283in/7.2mm (Max)

Width 2.75in/70mm (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.

256GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 256GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3
Maximum Sequential Read Up to 1600

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 780MB/sLogical Blocks500,118,192

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

Features APST; ASPM L1.2; NVME spec 1.2



Technical Specifications – Storage

512GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 512GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 860MB/sLogical Blocks1,000,215,216

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.

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

Drive Weight < 10g Capacity 128GB Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen3 **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]

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.

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

Drive Weight < 10q Capacity 256GB Height 2.38mm Length 80mm Width 22_{mm} PCIE Gen3 Interface **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



Technical Specifications – Storage

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

Drive Weight < 10a Capacity 512GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **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.

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

Drive Weight < 10a Capacity 1TB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 3480MB/s **Maximum Sequential Write** Up to 3037MB/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.

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

< 10g **Drive Weight** 2TB Capacity Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 3500MB/s **Maximum Sequential Write** Up to 3000MB/s **Logical Blocks** 3,907,029,168

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

Features TRIM; ASPM L1.2



Technical Specifications – Storage

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

< 10g **Drive Weight** Capacity 256GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 2700MB/s Up to 1000MB/s **Maximum Sequential Write 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.

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

Drive Weight < 10q Capacity 512GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **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.

256GB Intel® PCIe® NVMe™ QLC + 16GB Intel® Optane™

Drive Weight < 10q Capacity 256GB Height 2.38mm Length 80mm Width 22mm Interface PCIe Gen3 **Maximum Sequential Read** Up to 1450MB/s **Maximum Sequential Write** Up to 500MB/s Logical Blocks 500.118.192

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

Features TRIM; ASPM L1.2



Technical Specifications – Storage

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

Drive Weight < 10g
Capacity 512GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIe Gen3
Maximum Sequential Read Up to 2400

Maximum Sequential ReadUp to 2400MB/sMaximum Sequential WriteUp to 1300MB/sLogical Blocks1,000,215,215

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



Technical Specifications – Storage

DVD+R DL - Up to 6X 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

CD-RW - Up to 24

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

(typical reads, including settling) Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical) Stop Time 6 seconds (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 Blu-Ray Writer Drive

Height 9.5 mm 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-R DL - Up to 6X
DVD-RW Up to 6X
DVD+R Up to 8X
DVD+R DL - Up to 6X
DVD+RW 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 SL/DL Up to 8X
DVD-R Up to 8X
DVD-RW Up to 8X
DVD-RW Up to 8X
DVD+R SL/DL Up to 8X

DVD+R Up to 8X DVD+RW Up to 8X



Technical Specifications – Storage

BDMV (AACS Compliant

Disc)

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

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

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

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

Access time

Power

CD-ROM: 165 ms (typical)

(typical reads, including

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

settling) CD-ROM: 340 ms (typical)

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

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

Environmental conditions

Relative Humidity 10% to 80%

(operating - non-condensing) Maximum Wet Bulb Temperature 84° F (29° C)





Technical Specifications – Networking and Communications

NETWORKING AND COMMUNICATIONS

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

Intel® Ethernet Control	ler I210-AT Add-On Card
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	ACPI compliant – multiple power modes
Management	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)
Security & Manageability	PXE 2.1 Remote Boot

Intel Wi-Fi 6 AX201 + BT5	wireless card (802.11ax 2x2, non-vPro, supporting gigabit file transfer speeds)
Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Features Wi-Fi 6 technology
Frequency Band	802.11b/g/n/ax
	• 2.402 – 2.482 GHz
	802.11a/n/ac/ax
	• 4.9 – 4.95 GHz (Japan)
	• 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz
	• 5.47 – 5.725 GHz
	• 5.825 – 5.850 GHz
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, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
	• 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security	• IEEE 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
	• WAPI
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points



Output Power	• 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): +14.5dBm minimum
	• 802.11ac VHT80(5GHz): +11.5dBm minimum
	• 802.11ac VHT160(5GHz): +11.5dBm minimum
	• 802.11ax HT40(2.4GHz): +10dBm minimum
Davier Comprises	• 802.11ax VHT160(5GHz): +10dBm minimum
Power Consumption	• Transmit mode 2.0 W
	• Receive mode 1.6 W
	• Idle mode (PSP) 180 mW (WLAN Associated)
	Idle mode 50 mW (WLAN unassociated) Connected Standby 10mW
	Radio disabled 8 mW
Dawar Managament	
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Docaiver Concitivity	
Receiver Sensitivity	•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
	• 802.11ac, MCS9: -59dBm maximum
	•802.11ax, MCS11(HT40): -59dBm maximum
	•802.11ax, MCS11(VHT160): -58.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO
	communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm
	2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8g
3	2. Type 126: 1.3g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C)
	Non-operating: –40° to 176° F (–40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing)
•	Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m)
	Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED Off – Radio ON
Subtitle	HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1 Wireless Technology
Bluetooth Specification	4.0/4.1/4.2/5.0/5.1 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available	Legacy: 0~79 (1 MHz/CH)
Channels	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-DH5) or 864
	kbps symmetric (3-EV5)



Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit
	power of + 9.5 dBm for BR and EDR.
Power Consumption	Peak (Tx): 330 mW
	Peak (Rx): 230 mW
	Selective Suspend: 17 mW
Bluetooth Software	Microsoft Windows Bluetooth Software
Supported 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 IEC60950-1/IEC62368-1
	UL, CSA, and CE Mark
Bluetooth Profiles	BT4.1-ESR 5/6/7 Compliance
Supported	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)
	Advanced Addio Distribution Fronte (AEDF)

Intel Wi-Fi 6 AX201 + BT!	5 wireless card (802.11ax 2x2, vPro, supporting gigabit file transfer speeds)
Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Features Wi-Fi 6 technology
Frequency Band	802.11b/g/n/ax
	• 2.402 – 2.482 GHz
	802.11a/n/ac/ax
	• 4.9 – 4.95 GHz (Japan)
	• 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz
	• 5.47 – 5.725 GHz
	• 5.825 – 5.850 GHz



Data Bata	0024414.2.5544.414
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, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
M. I I.I.	• 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum
•	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security	• IEEE 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
N	• WAPI
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power	• 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): +14.5dBm minimum
	• 802.11ac VHT80(5GHz): +11.5dBm minimum
	• 802.11ac VHT160(5GHz): +11.5dBm minimum
	• 802.11ax HT40(2.4GHz): +10dBm minimum
Da Camanina tian	• 802.11ax VHT160(5GHz): +10dBm minimum
Power Consumption	• Transmit mode:2.0 W
	• Receive mode: 1.6 W
	• Idle mode (PSP) 180 mW (WLAN Associated)
	• Idle mode:50 mW (WLAN unassociated)
	Connected Standby/Modern Standby: 10mW Dadie disabled: 0. mW
Daway Managamant	• Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management
Danalaan Canalalala	802.11 compliant power saving mode
Receiver Sensitivity	•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
	• 802.11ac, MCS9: -59dBm maximum •802.11ax, MCS11(HT40): -59dBm maximum
At.a	•802.11ax, MCS11(VHT160): -58.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO
P P	communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm
	2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8g
	2. Type 126: 1.3g



Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C)
• • • • •	Non-operating: -40° to 176° F (-40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing)
	Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m)
	Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON
HP Integrated Module wit	h Bluetooth 4.0/4.1/4.2/5.0/5.1 Wireless Technology
Bluetooth Specification	4.0/4.1/4.2/5.0/5.1 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available	Legacy: 0~79 (1 MHz/CH)
Channels	BLE: 0~39 (2 MHz/CH)
Data Rates and	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps
Throughput	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps
i iii oagiipat	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864
	kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit
Transmit Tower	power of + 9.5 dBm for BR and EDR.
Power Consumption	Peak (Tx): 330 mW
· one consumption	Peak (Rx): 230 mW
	Selective Suspend: 17 mW
Bluetooth Software	Microsoft Windows Bluetooth Software
Supported 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 IEC60950-1/IEC62368-1
	UL, CSA, and CE Mark
Bluetooth Profiles	BT4.1-ESR 5/6/7 Compliance
Supported	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)
Security & Manageability	Intel® vPro™ support with appropriate Intel® chipset components



Realtek RTL8821CE 802	.11ac 1x1 Wi-Fi® and Bluetooth® 4.2 wireless card Combo
Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi® certified
Frequency Band	802.11b/g/n
	• 2.402 – 2.482 GHz
	802.11a/n/ac
	• 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, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
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.
	WPA2 certification
	• IEEE 802.11i
	• WAPI
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power	• 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
	• 802.11ac VHT80(5GHz): +10dBm minimum
Power Consumption	• Transmit mode 2.0 W
	• Receive mode 1.6 W
	• Idle mode (PSP) 180 mW (WLAN Associated)
	• Idle mode 50 mW (WLAN unassociated)
	Connected Standby 10mW
	• Radio disabled 8 mW
Power Management	ACPI and PCI Express compliant power management
	802.11 compliant power saving mode



WLAN
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Bluetooth Profiles	BT4.1-ESR 5/6/7 Compliance
Supported	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)

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi® certified
Frequency Band	802.11b/g/n
	• 2.402 – 2.482 GHz
	802.11a/n/ac
	• 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, (1SS, and 2SS) (20MHz, 40MHz & 80MHz)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
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.
	WPA2 certification
	• IEEE 802.11i
	• WAPI



Technical Specifications – Networking and Communications

Network Architecture	Ad-hoc (Peer to Peer)		
Models	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power	• 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): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum		
	• 802.11ac VHT160(5GHz): +11.5dBm minimum		
Power Consumption	• Transmit mode:2.0 W		
rower consumption	• Receive mode: 1.6 W		
	• Idle mode (PSP) 180 mW (WLAN Associated)		
	• Idle mode:50 mW (WLAN unassociated)		
	Connected Standby/Modern Standby: 10mW		
	• Radio disabled: 8 mW		
Power Management	ACPI and PCI Express compliant power management		
	802.11 compliant power saving mode		
Receiver Sensitivity	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		
	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 Bluetooth communications		
Form Factor	PCI-Express M.2 MiniCard with CNVi Interface		
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm		
lata: aba	2. Type 1216: 1.67 x 12.0 x 16.0 mm		
Weight	1. Type 2230: 2.8g		
Operating Voltage	2. Type 126: 1.3g 3.3v +/- 9%		
Operating Voltage			
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)		
indiniuity	Non-operating: 5% to 95% (non-condensing)		
Altitude	Operating: 0 to 10,000 ft (3,048 m)		
Titlituae	Non-operating: 0 to 50,000 ft (15,240 m)		
LED Activity	LED Amber – Radio OFF;		
LLD Activity	LED OFF – Radio ON		
UD Integrated Module wit	h Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology		
Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available	Legacy: 0~79 (1 MHz/CH)		
Channels	BLE: 0~39 (2 MHz/CH)		
Data Rates and	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps		
Throughput	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps		
4 m 3 h m s	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels		
	Legacy. System offices connection officiated times up to 3, 64 kbps, voice challinets		



Technical Specifications – Networking and Communications

	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864	
	kbps symmetric (3-EV5)	
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit	
	power of + 4 dBm for BR and EDR.	
Power Consumption	Peak (Tx): 330 mW	
	Peak (Rx): 230 mW	
	Selective Suspend: 17 mW	
Bluetooth Software	Microsoft Windows Bluetooth Software	
Supported 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 IEC60950-1/IEC62368-1	
	UL, CSA, and CE Mark	
Bluetooth Profiles	BT4.1-ESR 5/6/7 Compliance	
Supported	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)	



Technical Specifications – Input/Output Devices

I/O DEVICES

HP Business Slim Standalo	one Wired Keyboard	
Physical Characteristics	Keys	104, 105, 106, 107, 109 layout (depending upon country)
	Dimensions (L x W x H)	171.97 x 68.35 x 8.27 in (436.8± 1.5 x 137.6± 1.0 x 21.0± 1.0 cm)
	Weight	1.32 lb (0.6± 0.08 kg)
Electrical	Operating voltage	4.4-5.25VDC
	Power consumption	50-mA maximum (with 5 VDC power supplied and three LEDs ON)
	System interface	USB or PS/2
	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
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±12.5g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	Acoustics	43-dBA maximum sound pressure level
	Operating temperature	50° to 122° F (10° to 50° C)
	Non-operating temperature	Minus 30 degrees to 60 degrees Celsius
	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
	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, RCM, KCC	
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS	



HP USB Business Slim Wire	ed SmartCard CCID Keyboard	
Physical Characteristics	Keys	104, 105, 109 layout (depending upon country)
	Dimensions (L x W x H)	17.34 x 5.68 x 0.78in (440.6 x 144.5 x 1.98 cm)
	Weight	1.32 lb (598g)
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption	100mA (All LED on)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 12.5 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	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
	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	CE Marking, TUV, EAC, FCC, cULus/CSAus, ICES, RCM, VCCI, KCC, BSMI	
Ergonomic compliance	ISO 9241-4, TUVGS	



Physical Characteristics	Keys	104, 105 layout (depending upon country)
	Dimensions (L x W x H)	17.68 x 6.68 x 1.22 in (449.18 x 169.66 x31.2 mm)
	Weight	1.57 lb (710g)
Electrical	Operating voltage	5V +- 5%
	Power consumption	50mA
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	55±10g nominal peak force with tactile feedback
	Switch life	20 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	7.2 ft (2.2 m)
Environmental	Acoustics	43-dBA maximum sound pressure level
	Operating temperature	50° to 122° F (10° to 50° C)
	Non-operating temperature	-4° to 149° F (-20° to 65° C)
	Operating humidity	10% to 95% (non-condensing at ambient)
	Non-operating humidity	0% to 95% (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
	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, cUL, FCC, CE, TUV GS, VCCI, BSMI, RCM, KCC, USB-IF, WHQL, EN/IEC 60601-1, IP66/NEMA4X	
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS	



HP Premium Standalone V	Vireless Keyboard	
Physical Characteristics	Keys	104, 105 layout (depending upon country)
	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)
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption	35mA (All LED on)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	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
	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, RCM, KCC	
Ergonomic compliance	TUVGS	



HP USB Premium Wired Ke	yboard	
Physical Characteristics	Keys	104, 105 layout (depending upon country)
	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 (698ց)
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption	35mA (All LED on)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	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
	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, RCM, KCC	
Ergonomic compliance	TUVGS	



HP USB Wired Keyboard		
Physical Characteristics	Keys	104, 105, 106, 108, 109 layouts
	Dimensions (L x W x H)	18.12 x 6.47 x 1.10 in (460.28 x 164.31 x 27.88 mm)
	Weight	1.98 lb (900g) min
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption	50mA Max (All LED on)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±14g nominal peak force with tactile feedback
	Switch life	20 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	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
	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	CUL, FCC, CE Mark, TUV GS, VCC	CI, BSMI, RCM, KCC, EAC
Ergonomic compliance	TUVGS	

HP Universal USB Wired Keyboard		
Physical Characteristics	Keys	104, 105 layout (depending upon country)
	Dimensions (L x W x H)	18.15 x 6.02 x 1.08 in (461 x 153 x 27.4 mm)
	Weight	1.32 lb (600g) min
Electrical	Operating voltage	5 VDC, +/-5%



	Power consumption	50mA Max (All LED on)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Mid-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
Environmental	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
	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, RCM, KCC, EAC	
Ergonomic compliance	TUVGS	
	1	

HP Universal USB Wired Mouse			
Dimensions (H x L x W)	4.53 x 2.50 x 1.40 in (115 x 63.46 x 35.48 mmm)		
Weight	0.18lb (80g)	0.18lb (80g)	
Environmental	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	
Electrical	Operating voltage	5 VDC, +/-5%	
	Power consumption (typical)	50mA Max	



	Resolution	1,000 DPI
	Sensor	Pixart PAN3606DL
	Tracking speed	30 inch/sec (max)
	Tracking acceleration	9G(max), 1G=9.8m/s2
Mechanical	Connector	USB 2.0
	Cable length	6 ft (1.8 m)
	Color	Jack Black
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC, EAC

HP Optical Mouse					
Dimensions (H x L x W)	4.53 x 2.48 x1.46 in (115.2x 63 x37 mm)				
Weight	0.22lb (101.6g)				
Environmental	Operating temperature	41° to 122° F (5° to 50° C)			
	Non-operating temperature	(-4° to 140° F)(-20° to 60° C)			
	Operating humidity	10% to 85% (non-condensing at ambient)			
	Non-operating humidity	5% to 95% (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			
Electrical	Tracking speed	30 inch/sec (max)			
	Tracking acceleration	8G(max), 1G=9.8m/s2			
	System interface	USB or PS/2			
Mechanical	Switch actuation	60±15g nominal peak force with tactile feedback			
	Switch life	3 million keystrokes (Life tester)			
	Switch type	Contamination-resistant switch membrane			
	Key-leveling mechanisms	For all double-wide and greater-length keys			
	Cable length	6 ft (1.8 m)			
	Color	Jack Black			
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC			

HP USB 1000dpi Laser M	ouse	
Dimensions (H x L x W)	115 * 62.9 * 37 mm (L * W * H)	
Weight	0.22lb (101.6g)	
Environmental	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
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption (typical)	100mA
	Resolution	1,000 DPI
	Sensor	PixArt vendor Laser USB mouse sensor
	Tracking speed	30 inch/sec (max)
	Tracking acceleration	8G(max), 1G=9.8m/s2
Mechanical	Connector	USB 2.0
	Cable length	6 ft (1.8 m)
	Color	Jack Black
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC, EAC

Dimensions (H x L x W)	4.21 x 2.64 x 1.52 in (107 x 67 x 38.7 mmm)			
Weight	0.19lb (90g)			
Environmental	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	50 g, 6 surfaces		
	Non-operating shock	80 g, 6 surfaces		
	Operating vibration	2 g peak acceleration		
	Non-operating vibration	4 g peak acceleration		
Electrical	Operating voltage	5 VDC, +/-5%		
	Power consumption (typical)	12mA		
	Resolution	800, 1200, 1600 DPI		
	Sensor	Pixart PAN3606DL		
	Tracking speed	30 inch/sec (max)		
	Tracking acceleration	8G(max), 1G=9.8m/s2		
Mechanical	Connector	USB 2.0		
	Cable length	6 ft (1.8 m)		
	Color	Jack Black		
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC		



HP USB Fingerprint Mous	se					
Dimensions (H x L x W)	107 x 67 x 38.7 mm	107 x 67 x 38.7 mm				
Weight	85 g					
Environmental	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				
Electrical	Operating voltage	5 VDC, +/-5%				
	Power consumption (typical)	130mA				
	Resolution	1,200 DPI				
	Sensor	PixArt vendor Laser USB mouse sensor				
	Tracking speed	30 inch/sec (max)				
	Tracking acceleration	8G(max), 1G=9.8m/s2				
Mechanical	Connector	USB 2.0				
	Cable length	6 ft (1.8 m)				
	Color	Jack Black				
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC, EAC				



Technical Specifications – Audio/Multimedia

AUDIO/MULTIMEDIA

HP ProDesk 600 G6 Desktop Mini PC

Type Integrated

HD Stereo Codec Realtek ALC3205 / Realtek ALC 3867

Audio I/O Ports Front: Headset connector supports a CTIA and style headset and is re-taskable as a Line-in, Line-

out, Microphone-in or Headphone-out port

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered Multi-streaming Capable

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

streams to be sent to/from the front and rear jacks or integrated speaker.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz Sampling

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes

HP ProDesk 600 G6 Small Form Factor PC

Integrated

Realtek ALC3205 / Realtek ALC 3867 **HD Stereo Codec**

Audio I/O Ports Front: Headset connector supports a CTIA and style headset and is re-taskable as a Line-in, Line-

> out, Microphone-in or Headphone-out port Rear: Line-out, 3.5mm and support stereo

Internal Speaker Amplifier

Multi-streaming Capable

2W class D mono amplifier for the internal speaker only. External speakers must be powered Playback multi-streaming can be enabled in the audio control panel to allow independent audio

streams to be sent to/from the front and rear jacks or integrated speaker

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz Sampling

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes

HP ProDesk 600 G6 Microtower PC

Type Integrated

HD Stereo Codec Realtek ALC3205 / Realtek ALC 3867

Audio I/O Ports Front: Headset connector supports a CTIA and style headset and is re-taskable as a Line-in, Line-

> out, Microphone-in or Headphone-out port Rear: Line-Out port, 3.5mm and support stereo Line-in*, 3.5mm and support stereo

Internal Speaker Amplifier Multi-streaming Capable

2W class D mono amplifier for the internal speaker only. External speakers must be powered Playback multi-streaming allows independent audio streams to be sent to/from the front and

rear jacks or integrated speaker.

Sampling Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio

of Channels on Line-Out Stereo (Left & Right channels)



Technical Specifications – Audio/Multimedia

Internal Speaker Yes

*Line-in port only available on product with legacy PCI version

HP ProOne 600 G6 All-in-One PC

Type Integrated

HD Stereo Codec Realtek ALC3252

Audio I/O Ports Side 3.5mm headset connector supports an OMTP and CTIA style headset and is re-taskable as a

Line-in, Line-out, Microphone-in or Headphone-out port

Internal Speaker Amplifier 2W per channel class D stereo amplifier for the internal speakers only

Multi-streaming Capable Playback multi-streaming allows independent audio streams to be sent to/from the side jack and

integrated speakers.

Sampling Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes - Stereo



Technical Specifications – Integrated Webcam and Microphone

INTEGRATED WEBCAM AND MICROPHONE

Optional integrated 1 MP HD RGB webcam & microphone; maximum resolution of 1280 x 720 Optional integrated 5 MP RGB webcam & microphone; maximum resolution of 2592 x 1944 Optional integrated 5 MP RGB webcam with IR sensor & microphone; maximum resolution of 2592 x 1944



Technical Specifications – Power

POWER

	<u>DM</u>	<u>SFF</u> <u>MT</u>		<u>AiO</u>
External Power Supplies	65W EPS, 88% average efficiency at 115V & 89% at 230Vac 90W EPS, active PFC, when using 65W CPU, 88% average efficiency at 115V & 89% at 230Vac	N/A	N/A	90W EPS, active PFC, 88% efficiency in 115Vac / 89% efficiency in 230Vac 120W EPS, active PFC, 88% efficiency in 115Vac / 89% efficiency in 230Vac 150W EPS, active PFC, 88% efficiency in 115Vac / 89% efficiency in 230Vac
80 PLUS Gold	N/A	180W active PFC / 80 PLUS Gold 87/90/87% efficient at 20/50/100% load (115V) 90/92/89% efficient at 20/50/100% load (230V)	(115V)	N/A
80 PLUS Platinum	N/A	210W active PFC 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	PLUS Platinum	N/A
Operating Voltage Range	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac
Rated Voltage Range	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac
Rated Line Frequency	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ
Operating Line Frequency	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ
Rated Input Current with Energy Efficient* Power Supply	65W≦1.6A 90W≦1.7A	180W Gold ≦2.3A 210W Platinum ≦2.5A	180W Gold≦2.3A 260W Platinum≤3.1A 550W Platinum≤6.6A	90W≦1.7A 120W≦2.2A 150W≦2.5A
DC Output	+19.5V	+12V	+12V	+19.5V



Technical Specifications – Power

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Current Leakage (NFPA	Less than 500	Less than 500	Less than 500	Less than 500 microamps
99: 2012)	microamps of leakage	microamps of leakage	microamps of leakage	of leakage current at 264
	current at 264 Vac with	current at 264 Vac with	current at 264 Vac with	Vac with the ground wire
	the ground wire	the ground wire	the ground wire	disconnected, as required
		disconnected, as	disconnected, as	for Non-patient Electrical
	required for Non-patient		required for Non-	Appliances and Equipment
	Electrical Appliances and		patient Electrical	used in a patient care
	Equipment used in a	Appliances and	Appliances and	facility or that contact
	·	Equipment used in a	Equipment used in a	patients in normal use. Per
		patient care facility or	patient care facility or	section 10.3.5.1.
			that contact patients in	Less than 100 microamps
			normal use. Per section	of leakage current at 264
	Less than 100	10.3.5.1.	10.3.5.1.	Vac with the ground wire
		Less than 100	Less than 100	intact with normal polarity,
		microamps of leakage	microamps of leakage	as required for Non-patient
	3	current at 264 Vac with	current at 264 Vac with	Electrical Appliances and
	• • • • • • • • • • • • • • • • • •	the ground wire intact	the ground wire intact	Equipment used in a patient
		with normal polarity, as	with normal polarity, as	care facility or that contact patients in normal use. Per
		required for Non- patient Electrical	required for Non- patient Electrical	section 10.3.5.1.
		!	•	section 10.3.5.1.
		Appliances and Equipment used in a	Appliances and Equipment used in a	
		patient care facility or	patient care facility or	
			that contact patients in	
			normal use. Per section	
		10.3.5.1.	10.3.5.1.	
Power Supply Fan	N/A	50 mm variable speed	70 mm variable speed	N/A
Power cord length	6.0 ft. (1.83m)	6.0 ft. (1.83m)	6.0 ft. (1.83m)	6.0 ft. (1.83m)
Dimensions	65W: 102 x 55 x 30mm	200 x 85 x 53 mm	165 x 95 x 73 mm	90W: 126 x 50 x 30mm
	90W: 126 x 50 x 30mm			120W: 138 x 68.5 x 25.4mm
				150W: 148 x 75.5 x 25.4mm

The power supply shall comply with harmonic input current requirements as detailed in EN61000-3-2 and JEIDA MITI standards. The harmonic input current requirements must be met under the following operating conditions:

Load Requirements: 50% and 100%

Input Voltage: 230Vac/50Hz.

For active power factor correction the power factor at 50% &100% loads shall be greater than 0.9 over the entire nominal input voltage range (100-127VAC and 200-240VAC).

Condition	Standard Efficiency	82/85/82%	85/88/85%	87/90/87%	90/92/89%	Input Voltage
10% of Rated Load	-	75%	81%	84%	86%	115Vac/60HZ
20% of Rated Load	-	82%	85%	87%	90%	115Vac/60HZ
COOK of Dated Load	-	85%	88%	90%	92%	115Vac/60HZ
50% of Rated Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.95	
100% of Dated Load	70%	82%	85%	87%	89%	115Vac/60HZ
100% of Rated Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9	230Vac/50HZ





Technical Specifications – Weights and Dimensions

WEIGHTS & DIMENSIONS¹

	<u>DM</u>	<u>SFF</u>	<u>MT</u>	
Chassis (W x D x H)	6.97 x 6.89 x 1.35 in 177 x 175 x 34.2 mm	10.6 in x 11.9 in x 3.7 in 270 mm x 303 mm x 95 mm	6.1 x 13.27 x 11.93 in 155x 337 x 303 mm	
System Volume	1.05 L		965 cu in 15.83 L	
System Weight ²	2.74 lbs 1.25 kg	8.6 lbs 3.9 kg	11.01 lbs 5 kg	
Max Supported Weight (desktop orientation)	N/A	II TO TO THE STATE OF THE STATE	77 lb 35 kg	
Packaging Dimension (W x D x H)	19.57 x 5.04 x 8.78 in (497 x 128 x 223 mm)	15.52 x 8.07 x 19.65 in (394 x 205 x 499 mm)	15.75 x 11.30 x 19.65 in (400 x 287 x 499 mm)	
	MPP : 19.61 x 9.25 x 5.20 in (498 x 235 x 132 mm)	MPP : 15.52 x 8.07 x 19.65 in (394 x 205 x 499 mm)	MPP : 15.75 x 11.30 x 19.65 in (400 x 287 x 499 mm)	
Shipping Weight	6.52 lbs (2.97 kg)	15.37 lbs (6.97 kg)	16.85 lbs (7.65 kg)	
	MPP : 7.50 lbs (3.40 kg)	MPP : 15.86 lbs (7.2 kg)	MPP : 17.55 lbs (7.97 kg)	
Palletization Profile (Fabricated EPE)	18-units per layer 5 or 6 layers max depending on details of air freight 90 or 108 units per pallet depending on details of air freight 45.354 x 39.13 x 57.80 in, 1152 x 994 x 1468 mm (include pallet)		6-units per layer 8 layer max 48 per pallet 47.24 x 39.37 x 95.12 in, 1200 x 1000 x 2416 mm (including pallet)	
Palletization Profile (Molded Pulp)	10-units per layer 10 to 19 layers max depending on details of freight 100 or 190 units per pallet depending on details of freight 46.26 x 39.21 x 103.74 in, 1175 x 996 x 2635 mm (including pallet)	11 layer max 66 per pallet 47.24 x 39.37 x 93.90 in, 1200	6-units per layer 8 layer max 48 per pallet 47.24 x 39.37 x 95.12 in, 1200 x 1000 x 2416 mm (including pallet)	

- 1. Packaging material used will vary by country 2. Configured with 1 HDD & 1 ODD; DM configured with 1 HDD only

Technical Specifications – Weights and Dimensions

All-in-One Dimensions¹

HP ProOne 600 G6 22 All-in-One PC

		Withou	ıt Stand	Cantilever Stand (Fixed Height Tilt Stand)		Adilictation Hol	
		cm/kg	inch/lbs	cm/kg	inch/lbs	cm/kg	inch/lbs
	Width	48.87 cm	19.24 in	48.87 cm	19.24 in	48.87 cm	19.24 in
Duaduat	Length/Depth	5.08 cm	2.0 in	15.65 cm	6.16 in	20.15 cm	7.93 in
Product	Height	32.45 cm	12.78 in	37.46 cm	14.75 in	35.4 ~ 48.28 cm	13.94 ~ 19.01 in
	Weight	5.178 kg	11.42 lbs	5.888 kg	12.98 lbs	6.758 kg	14.90 lbs
	Width	59.5 cm	23.43 in	59.5 cm	23.43 in	59.5 cm	23.43 in
Daalaaa	Length/Depth	24.5 cm	9.65 in	24.5 cm	9.65 in	24.5 cm	9.65 in
Package	Height	41.4 cm	16.30 in	41.4 cm	16.30 in	41.4 cm	16.30 in
	Weight	8.2 kg	18.08 lbs	8.91 kg	19.64 lbs	9.78 kg	21.56 lbs
	Width	120 cm	47.24 in	120 cm	47.24 in	120 cm	47.24 in
	Length/Depth	100 cm	39.37 in	100 cm	39.37 in	100 cm	39.37 in
Palletization	Height	221 cm	87.07 in	221 cm	87.07 in	221 cm	87.07 in
for Sea/Rail	Weight	346.8 kg	764.85 lbs	375.2 kg	827.25 lbs	410 kg	904.05 lbs
	Qty / Layer		8	_	8		В
	Layers	5			5	5	
Qty / Pallet via	Sea/Rail	4	10	4	10	4	0
Qty / Pallet via		2	24		24	2	4

^{1.} Packaging material used will vary by country

^{2.} Configured with 1 HDD & 1 ODD

Technical Specifications – Miscellaneous Features

MISCELLANEOUS FEATURES

Management Features

- Advanced Configuration and Power Management Interface (ACPI). Allows the system to wake from a low power mode.
 Controls system power consumption, making it possible to place individual cards and peripherals in a low-power or powered-off state without affecting other elements of the system.
- Intel® Wired for Management support; industry wide initiative to make Intel® architecture based PCs, servers and mobile
 computers more inherently manageable out-of-the-box and over the network
- Dual State Power Button; acts as both an on/off button and a suspend-to-sleep button

Serviceability Features

- Dual colored power LED on front of computer to indicate either normal or fault condition
- Diagnostic LED Explanation Table:
 - Power LED will blink red 2 to 5 times, then blink white 2 or more times, then repeat (with beep tones for each blink initially):
 - 2 red + 2 white User must provide file for BIOS recovery (USB storage typically)
 - 2 red + 3 white User must enter a key sequence to proceed with recovery by policy
 - 2 red + 4 white BIOS recovery is in progress
 - 3 red + 2 white Memory could not be initialized
 - 3 red + 3 white Graphics adaptor could not be found
 - 3 red + 4 white Power supply failure / not connected
 - 3 red + 5 white Processor not installed
 - 3 red + 6 white Current processor does not support an enabled feature
 - 4 red + 2 white Processor has exceeded its temperature threshold / system thermal shutdown
 - 4 red + 3 white System internal temperature has exceeded its threshold
 - 5 red + 2 white System controller firmware is not valid
 - 5 red + 3 white System controller detected BIOS is not executing
 - 5 red + 4 white BIOS could not complete initialization / mainboard failure
 - 5 red + 5 white System controller rebooted the system after a health or recovery timer triggered
- HP PC Hardware Diagnostics UEFI:
 - This utility enables hardware level testing outside the operating system on many components. The diagnostics can be invoked by pressing F2 at POST, and is available as a download from HP Support
- System/Emergency ROM
- Flash ROM
- CMOS Battery Holder for easy replacement
- Flash Recovery with Video Configuration Record Software
- 5 Aux Power LED on System PCA
- Processor ZIF Socket for easy Upgrade
- Over-Temp Warning on Screen (Requires IM Agents)
- DIMM Connectors for easy Upgrade
- Clear CMOS Button
- NIC LEDs (integrated) (Green & Amber)
- Dual Color Power and HD LED To Indicate Normal Operations and Fault Conditions
- Color coordinated cables and connectors
- Tool-less Hood Removal
- Front power switch
- System memory can be upgraded without removing the system board or any internal components
- Tool-less Hard Drive, memory & optical drive removal (For MT, SFF, and DM only)
- Green Pull Tabs, and Quick Release Latches for easy Identification



Technical Specifications – Miscellaneous Features

Additional Features

Product Orientation Microtower (MT) can be oriented in a tower (vertical) orientation.

Small Form Factor (SFF) can be oriented as either a desktop (horizontal) or a tower

(vertical) with optional vertical stand.

Desktop Mini (DM) can be oriented as either a desktop (horizontal) or a tower (vertical)

with optional vertical stand.

Drive Protection SystemDPS Access through F10 Setup during Boot

A diagnostic hard drive self- test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and

needs to be replaced

The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain

types of failures

SMART Technology (Self-Monitoring, Analysis and Reporting Technology)

SMART II - Off-Line Data Collection

Allows hard drives to monitor their own health and to raise flags if imminent failures

were predicted

SMART I - Drive Failure PredictionPredicts failures before they occur. Tracks fault prediction and failure indication

parameters such as re-allocated sector count, spin retry count, calibration retry count.

parameters such as re-allocated sector count, spin retry count, calibration retry count By avoiding actual hard drive failures, SMART hard drives act as "insurance" against

unplanned user downtime and potential data loss from hard drive failure

SMART III - Off-Line Read Scanning with

Defect Reallocation

IOEDC: I/O Error Detection Circuitry

SMART IV - End-to-End CRC for hard drives Detects errors in Read/Write buffers on HDD cache RAM



After Market Options

AFTER MARKET OPTIONS

Graphics Solutions	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
AMD Radeon RX 550X 4GB Display Card		X			<u>5LH79AA</u>
AMD Radeon R7 430 2GB 2DP Card		X	X		<u>5JW82AA</u>
AMD Radeon R7 430 2GB DP+VGA Card		X	X		<u>5JW81AA</u>
HP DisplayPort To HDMI True 4k Adapter	X	X	X	Х	<u>2JA63AA</u>
HP DVI Cable Kit		X	X		<u>DC198A</u>
HP HDMI Standard Cable Kit	X	X	X	Х	<u>T6F94AA</u>
HP DisplayPort Cable Kit	Х	X	X	Х	<u>VN567AA</u>
HP DisplayPort To VGA Adapter	Х	X	X	Х	<u>AS615AA</u>
HP DisplayPort To DVI-D Adapter	X	X	X	Х	FH973AA

Desktop Mini Accessories	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	Part Number
HP Desktop Mini Port Cover v2	Х				<u>13L69AA</u>
HP Desktop Mini 2.5" SATA Drive Bay kit v2	X				<u>13L70AA</u>
HP Desktop Mini LockBox V2	Х				<u>3EJ57AA</u>
HP Desktop Mini DVD-Writer ODD Expansion Module	V (Fither one)				<u>K9Q83AA</u>
HP Desktop Mini I/O Expansion Module	X (Either one)				<u>K9Q84AA</u>
HP Desktop Mini Security/Dual VESA Sleeve v3	X				<u>13L67AA</u>
HP Desktop Mini Security/Dual VESA Sleeve v3 with Power Supply Holder	х				<u>13L68AA</u>
HP B300 PC Mounting Bracket with Power Supply Holder	X (Discrete GPU skus and 150W/180W adapter not supported)				<u>7DB37AA</u>
HP Desktop Mini Vertical Chassis Stand	Х				<u>G1K23AA</u>
HP DM Power Supply Holder Kit v2	X (Discrete GPU skus and 150W/180W adapter not supported)				<u>7DB38AA</u>
HP 150W Elite Mini EPS Holder*	Х				<u>657R3AA</u>

NOTE*: Compatible with HP B300 PC Mounting Bracket (2DW53AA) and HP Desktop Mini Security Dual/VESA Sleeve v3 (13L67AA).

Data Storage Drives	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
HP PCIe NVME TLC 256GB SSD M.2 Drive	Х	X	X	X	<u>1CA51AA</u>
HP PCIe NVME TLC 512GB SSD M.2 Drive	X	X	X	Х	<u>X8U75AA</u>
HP 500GB 7200PRM SATA 6.0Gb/s 3.5" Hard Drive		X	X		<u>QK554AA</u>
HP 1TB 7200rpm SATA 6Gb/s 3.5" Hard Drive		X	X		<u>QK555AA</u>
HP SFF SATA DVD-Writer ODD		X			52D76AA
HP TWR SATA DVD-Writer ODD			X		52D77AA
HP ProDesk 400/600 MT 2nd 3.5" HDD cage			Х		<u>13L71AA</u>



After Market Options

Input Devices	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	Part Number
HP Wired Desktop 320K Keyboard	X	Х	X	Х	<u>9SR37AA</u>
HP USB Antimicrobial Business Slim Keyboard and Mouse	Х	Х	X	Х	<u>Z9H50AA</u>
HP USB Business Slim CCID SmartCard Keyboard	Х	Х	X	Х	<u>Z9H48AA</u>
HP USB Keyboard	X	X	X	X	<u>QY776AA</u>
HP USB Premium Keyboard	X	X	X	Х	Z9N40AA
HP Wired Desktop 320MK Mouse and Keyboard	X	X	X	Х	9SR36AA
HP USB PS/2 Washable Keyboard & Mouse	X	X	X	X	BU207AA
HP Wireless Business Slim Keyboard and Mouse	X	X	X	X	N3R88AA
HP Wireless Premium Keyboard	X	X	X	Х	<u>Z9N41AA</u>
HP PS/2 Business Slim Keyboard		X	X		N3R86AA
HP Wired Desktop 320M Mouse	X	Х	X	Х	<u>9VA80AA</u>
HP Wireless Premium Mouse	X	Х	X	Х	1JR31AA
HP USB Grey v2 Mouse	X	X	X	Х	<u>Z9H74AA</u>
HP USB Premium Mouse	X	X	X	Х	1JR32AA
HP PS/2 Mouse		Х	X		<u>QY775AA</u>
HP USB 1000dpi Laser Mouse	X	Х	X	Х	<u>QY778AA</u>
HP USB Optical Mouse	X	Х	X	Х	<u>QY777AA</u>
HP USB Fingerprint Mouse	Х	Х	Х	Х	<u>4TS44AA</u>

Communication Devices	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
Intel Ethernet I210-T1 GbE NIC		Х	X		E0X95AA

System Memory	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
HP 32GB DDR4-2666 UDIMM		Х	X		<u>1C918AA</u>
HP 4GB DDR4-3200 UDIMM		Х	X		<u>13L78AA</u>
HP 8GB DDR4-3200 UDIMM		Х	X		<u>13L76AA</u>
HP 16GB DDR4-3200 UDIMM		Х	X		<u>13L74AA</u>
HP 32GB DDR4-3200 UDIMM		Х	X		<u>13L72AA</u>
HP 4GB DDR4-3200 SODIMM	X			X	<u>13L79AA</u>
HP 8GB DDR4-3200 SODIMM	X			X	<u>13L77AA</u>
HP 16GB DDR4-3200 SODIMM	X			X	<u>13L75AA</u>
HP 32GB DDR4-3200 SODIMM	X			X	<u>13L73AA</u>

Multimedia Devices	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
HP Business Headset v2	X	Х	X	X	<u>T4E61AA</u>
HP S101 Speaker Bar	X	Х	Х		<u>5UU40AA</u>
HP UC Speaker Phone v2	Х	X	Х		4VW02AA



After Market Options

Security Devices	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
HP Business PC Security Lock v3 Kit		Х	X	X	<u>3XJ17AA</u>
HP Dual Head Keyed Cable Lock	X	Х	X	X	<u>T1A64AA</u>
HP Keyed Cable Lock 10mm	X	Х	X	X	<u>T1A62AA</u>
HP Master Keyed Cable Lock 10mm	X	Х	X	X	<u>T1A63AA</u>

Stands and Mounting Accessories	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	Part Number
HP B250 PC Mounting Bracket	Х				<u>8RA46AA</u>
HP B300 PC Mounting Bracket	Х				<u>2DW53AA</u>
HP B500 PC Mounting Bracket	Х				<u>2DW52AA</u>
HP Quick Release Bracket 2	Х			X*	<u>6KD15AA</u>
HP Single Monitor Arm				Х*	<u>BT861AA</u>
HP ProOne G6 VESA Plate with Power Supply Holder				X	<u>13L66AA</u>
HP ProOne G6 AiO Adjustable Height Stand				X	<u>13L65AA</u>

^{*}NOTE: To use any VESA mounting accessories, need to purchase VESA plate(13L66AA) separately.

I/O Devices	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	Part Number
HP DisplayPort Port Flex IO v2	X	Х	X		<u>13L54AA</u>
HP HDMI Port Flex IO v2	X	Х	X		<u>13L55AA</u>
HP Type-C USB 3.1 Gen2 Port Flex IO v2		Х	Х		<u>13L59AA</u>
HP Type-C USB 3.1 Gen2 Port with 100W PD Flex IO v2	X				<u>13L60AA</u>
HP VGA Port Flex IO v2	X	Х	Х		<u>13L53AA</u>
HP Serial Port Flex IO v2	X	Х	X		<u>13L56AA</u>
HP Serial Port Flex IO 2nd v2	X				<u>13L57AA</u>
HP Internal Serial Port (405/600/805/800)		Х	X		<u>3TK82AA</u>
HP PCIe x1 Parallel Port Card		Х	X		<u>N1M40AA</u>
HP 800/600/400 G3 Serial/ PS/2 Adapter		Х	X		<u>1VD82AA</u>

NOTE: For more detail on HP I/O Devices please refer to the HP FLEX IO Option Cards QuickSpecs. URL is: http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06042607

Intel® Optane™ Memory	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	<u>Part Number</u>
Intel® Optane™ Memory 16GB (Cache)	Х	Х	X	X	1WV97AA
512GB Intel® Optane™ Memory H10 with SSD	Х	Х	Х	X	6VF55AA



Change Log

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Date	Version History	Action	Description of Change
August 26, 2020	From v1 to v2	Addition	DVD-R DL - Up to 6X, DVD+R DL - Up to 6X, DVD-R SL/DL Up to 8X and DVD+R SL/DL Up to 8X on the read/write speed on the blue ray write drive specs on Storage section. Environmental section for AiO 22
September 3, 2002	From v2 to v3	Update	HP ProDesk 600/680 G6 PCI Microtower PC front view, Not shown call outs corrected
October 7, 2020	From v3 to v4	Addition	Environmental specs for SFF
October 21, 2020	From v4 to v5	Correction	External power supply section for DM
October 27, 2020	From v5 to v6	Correction	Processors footnotes section and Turbo boost specs corrected
November 18, 2020	From v6 to v7	Addition	Environmental data for HP ProDesk 600 G6 Microtower PC, HP ProDesk 600 PCI G6 Microtower PC and HP ProDesk 680 PCI G6 Microtower PC.
November 25, 2020	From v7 to v8	Addition	Environmental data for HP ProDesk 600 G6 Desktop Mini PC.
December 2, 2020	From v8 to v9	Update	HDMI versions to 2.0a in port flex sections
December 8, 2020	From v9 to v10	Update	Optional 4 Serial Port PCIe Card not shown call out in 680 G6, 600 G6 MTs and 600 G6 SFF rear images call outs sections
January 20, 2021	From v10 to v11	Update	Graphics Solutions in Amo section updated
February 24, 2021	From v11 to v12	Update	RAID sentence in At a glance section updated
April 16, 2021	From v12 to v12	Correction	Typo in Power Supply section
April 20, 2021	From v13 to v14	Update	Intel® I219-LM 1 table
May 4, 2021	From v14 to v15	Addition	HP Smart Support and footnote added to software section
June 9, 2021	From v15 to v16	Update	Call outs and audio/multimedia settings except for AIO updated
July 2, 2021	From v16 to v17	Addition	10 new processors
July 6, 2021	From v17 to v18	Correction	256GB Intel® PCIe® NVMe™ QLC + 16GB Intel® Optane from 32GB
August 6, 2021	From v18 to v19	Update	Memory system in AMO section updated
August 19, 2021	From v19 to v20	Update	Environmental, Weights and dimensions, Power, Miscellaneous features, display specifications and Storage updated / 1TB 5400RPM 2.5in SATA HDD. added
September 14, 2021	From v20 to v21	Correction	SFF M.2 PCIe x4 2280 (for storage) set to 2 in Call outs and Ports sections
November 4, 2021	From v21 to v22	Correction	Note added to Stands and Mounting Accessories in AMO section / 1CA52AA and 1CA53AA removed and replaced with 52D76AA and 52D77AA in Data Storage Drives at Amo section.
December 3, 2021	From v22 to v23	Update	Memory main table module updated Windows 11 upgrade added
February 11, 2022	From v23 to v24	Update	SFF M.2 PCIe ports corrected from 3 to 2 and 2 to 1 in CO and PORTS sections
June 16, 2022	From v24 to v25	Update	Environmental tables certifications updated
August 22, 2022	From v25 to v26	Update	Memory data table updated.
October 27, 2022	From v26 to v27	Update	HP 150W Elite Mini EPS Holder and note added to DM accessories table / description updated for 7DB38AA and 7DB37AA in AMO section.



HP ProDesk 600 G6 Commercial Desktops PC

QuickSpecs

Change Log

December 14, 2022	From v27 to v28	Correction	Operative system updated
March 9, 2023	From v28 to v29		"wireless card" Added to wireless card in the end of module description in
			Networking and communication section

