Overview

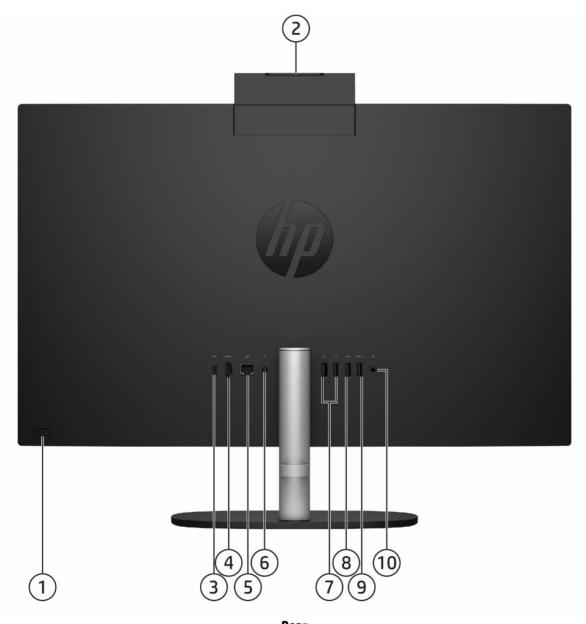
HP ProOne 245 23.8 inch G10 All-in-One Desktop PC



- 1. Pull-up tiltable 5mp webcam and microphone
- 2. Speakers (downfiring)

Overview

HP ProOne 245 23.8 inch G10 All-in-One Desktop PC



Rear

- 1. Power button
- 2. Pull-up webcam
- 3. One (1) Type-C USB 5Gbps signaling rate port
- 4. HDMI 1.4 out connector
- 5. RJ-45 (network) jack
- 6. Power connector

- 7. Two (2) Type-A Hi-Speed USB 480Mbps signaling rate ports
- 8. One (1) Type-A SuperSpeed USB 5Gbps signaling rate port
- 9. One (1) Type-A SuperSpeed USB 5Gbps signaling rate port with HP Sleep and Charge
- 10. Microphone/Headphone Combo Jack



Overview

AT A GLANCE

- Choice of Windows 11 Pro, Windows 11 Home, and FreeDOS.
- Integrated All-in-One form factor.
- 23.8-inch diagonal widescreen Full HD anti-glare display.
- Latest AMD® Ryzen™ and Athlon™ Processors with AMD Radeon™ 610M Graphics.
- Up to 16GB of LPDDR5 3200 memory.
- Integrated 10/100/1000 Gigabit LAN Ethernet Controller.
- Wi-Fi 6 wireless connectivity.
- Integrated HD audio card and stereo speakers.
- Integrated 5MP (Pixel size: 1.12μm x 1.12μm) pull-up tiltable camera to ensure no accidental recording to safeguard user's privacy.
- Storage options with up to 1TB SSD.
- Optional HP external USB DVD/RM Drive.
- TPM 2.0 support.
- Low halogen materials, ENERGY STAR® certified and EPEAT® gold registered where applicable.
- Optional HP Care Pack available. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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



Features

OPERATING SYSTEMS

Preinstalled Windows 11 Pro¹

Windows 11 Home - HP recommends Windows 11 Pro for Business¹

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

FreeDOS

Pre-installed (other) FreeDOS

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

PROCESSORS*

AMD Ryzen™ 5 7520U 1

2.8 GHz base clock, up to 4.3 GHz max boost clock 4 MB L3 cache, 4 cores Integrated Radeon™ Graphics Supports LPDDR5 memory up to 3200 MHz data rate²

AMD Ryzen™ 3 7320U 1

2.4 GHz base clock, up to 4.1 GHz max boost clock 4 MB L3 cache, 4 cores Integrated Radeon™ Graphics Supports LPDDR5 memory up to 3200 MHz data rate²

AMD Athlon™ Silver 7120U 1

2.4 GHz base clock, up to 3.5 GHz max boost clock 4 MB L3 cache, 4 cores Integrated Radeon™ 610M Supports LPDDR5 memory up to 3200 MT/s data rate²

- 1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering, is not a measurement of clock speed.
- 2. Actual data rate is determined by both the system's configured processor and memory module installed.

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



Features

GRAPHICS

AMD Radeon™ 610M

NOTE: AMD integrated Radeon™ Vega Graphics varies by processor

DISPLAY

Non-Touch

23.8" diagonal FHD IPS anti-glare WLED-backlit (1920 x 1080)

STORAGE AND DRIVES*

NOTE: Starting from November 1st, 2023, all shipments will require Windows to be installed when selecting a SSD.

M.2 PCIe NMVe Solid State Drives (SSD)

128GB 2230 PCIe NVMe Solid State Drive 256GB 2280 PCIe NVMe Solid State Drive 512GB 2280 PCIe NVMe Solid State Drive 1TB 2280 PCIe NVMe Solid State Drive 512GB 2280 PCIe NVMe TLC Solid State Drive 1TB 2280 PCIe NVMe TLC Solid State Drive

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB is reserved (for Windows) for system recovery software.



Features

MEMORY

Maximum

LPDDR5 up to 3200MT/s

Memory Slots

No SODIMM slot, on board memory

Available Configurations

4GB LPDDR5 3200MT/s 8GB LPDDR5 3200MT/s 16GB LPDDR5 3200MT/s

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

NOTE: Actual data rate is determined by both the system's configured processor and memory module installed.

NETWORKING/COMMUNICATIONS

Wireless LAN

Realtek® 8852BE Wi-Fi 6¹ (802.11ax) 2x2 Wi-Fi® M.2 Card² Realtek® 8852BE-VS Wi-Fi 6³ (802.11ax) 1x1 Wi-Fi® M.2 Card²

Ethernet (RJ-45) Integrated

Realtek® RTL8111HSH-CG Gigabit Ethernet Controller

- 1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11 ax) is backwards compatible with prior 802.11 specs.
- 2. Must be configured at time of purchase.
- 3. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

AUDIO/MULTIMEDIA

High Definition Audio

Integrated Realtek ALC3274 Audio Codec High performance integrated stereo speakers 3.5mm combo (microphone/headphone) jack

Webcams & Mic

Integrated tiltable 5MP webcam (Pixel size: 1.12µm x 1.12µm), Up to 30 frames/sec, dual array microphone included



Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboards

HP Universal USB Wired Keyboard

Mice

HP USB Hardened Optical Mouse HP USB Universal Mouse

Keyboard and Mouse Combo

HP Universal wireless Keyboard & Mouse combo

NOTE: Availability may vary by country



Features

SOFTWARE AND SECURITY

HP Support

HP PC Hardware Diagnostics HP Cloud Recovery HP Support Assistant

Internet Security and Antivirus

McAfee LiveSafe (30-day subscription)1

Product Setup

myHP

Security Features

Trusted Platform Module (TPM) 2.0 (firmware)^{2,3}

Productivity

Xerox® DocuShare® (90 days free trial offer)⁴
Microsoft 365 (sold separately and requires Internet access for activation)

- 1. 30 days trial period. Internet access required to receive updates. First update included. Subscription required for updates thereafter
- 2. TPM feature will not be supported on machines pre-configured with FreeDOS and Linux
- 3. In selected countries, machines pre-configured with Windows OS will be shipped with TPM disabled.
- 4. Simply sign up and start using Xerox® DocuShare® Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 90 days free trial period. See visit https://xerox.com/docushareqo for details.

POWER

Power Supply

HP Smart 65W External AC power adapter HP Smart 90W External AC power adapter

PORTS/SLOTS

Rear I/O Ports

One (1) Type-C SuperSpeed USB 5Gbps signaling rate ports

One (1) Type-A SuperSpeed USB 5Gbps signaling rate ports

One (1) Type-A SuperSpeed USB 5 Gbps port with HP Sleep and Charge

Two (2) Type-A Hi-Speed USB 480Mbps signaling rate ports

One (1) RJ-45 (network) jack

One (1) HDMI 1.4 out connector

One (1) Microphone/Headphone Combo Jack

One (1) DC in power

Internal I/O Ports

One (1) M.2 PCIe x1 2230 (for WLAN)

One (1) M.2 PCIe x4 2280 (for storage)

One (1) SATA storage connector

Bays

One (1) 2.5" internal storage drive



Features

WEIGHTS & DIMENSIONS

Weight

23.8 Non-Touch Product Weight (Unboxed)

Basic Stand 5.37 kg, 11.84 lbs

23.8 Shipping Weight (Boxed) 8.80 kg, 19.40 lbs **23.8 Shipping Weight (Pallet) 225.2** kg, 496.5 lbs

Dimension

23.8 System Dimensions

Without Stand 540.62 x 183.7 x 351.43 mm

21.28 x 7.23 x 13.84 in

Basic Stand 540.62 x 183.7 x 419.01 mm

21.28 x 7.23 x 16.50 in

23.8 Shipping Dimensions (Boxed) 641 x 277 x 525 mm

25.2 x 10.7 x 20.6 in

23.8 Shipping Dimensions (Pallet) 1200 x 1000 x 2235 mm

47.24 x 39.37 x 88 in

23.8 Pallet Quantity (Sea/ Rail) 24 **23.8 Pallet Quantity (Air)** 12



Features

UNIT ENVIRONMENT AND OPERATING CONDITIONS9

- 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 recirculated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.
- Low halogen (chassis, all internal components and modules)1

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

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

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

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

Maximum Altitude (unpressurized) Operating: 5000m

Non-operating: 50000ft (15240 m)

1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

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

ENVIRONMENTAL & INDUSTRY

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.
- China Energy Conservation Program (CECP)
- China State Environmental Protection Administration (SEPA)
- Taiwan Green Mark
- Korea Eco-label
- Japan PC Green label*

Sustainable Impact Specifications

- Product Carbon Footprint (hp.com)
- Ocean-bound plastic in CPU fan, stand
- 45% post-consumer recycled plastic
- 10% recycled metal
- Low halogen¹
- Outside Box and corrugated cushions are 100% sustainably sourced and recyclable
- Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable

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".

Features

Energy Consumption (in accordance with US ENERGY STAR® test method)

Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off

Heat Dissipation*

Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

Typically Configured – Idle Fixed Disk – Random writes

Longevity and Upgrading

Batteries

Additional Information

115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
12.456 W	12.528 W	12.192 W
0.792 W	0.816 W	0.732 W
0.792 W	0.816 W	0.732 W
0.336 W	0.372 W	0.324 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. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/qo/options.

115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
42.6 BTU/hr	42.8 BTU/hr	41.7 BTU/hr
2.7 BTU/hr	2.8 BTU/hr	2.5 BTU/hr
2.7 BTU/hr	2.8 BTU/hr	2.5 BTU/hr
1.1 BTU/hr	1.3 BTU/hr	1.1 BTU/hr

NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Sound Power (L _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)
1.9	18.7
23	21 9

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

- 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 (EPEAT) standard at the Gold level, see http://www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product is 96.8% recycle-able when properly disposed of at end of life.

Features

Packaging Materials	External:	PAPER/Corrugated	1004 g
		PAPER/Paperboard	294 g
		PAPER/Corrugated	189 g
		PAPER/Corrugated	26 g
		PAPER/Paperboard	41 g
		PAPER/Molded Pulp	552 g
		PAPER/Molded Pulp	430 g
		PLASTIC/Other	36 g
		OTHER/Other	7 g
		OTHER/Other	4 g

The plastic packaging material contains at least 90% recycled content.

The corrugated paper packaging materials contains at least 80% recycled content. HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.

We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.

We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.

To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.

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 Oxides (PBBOs)

RoHS Compliance

Material Usage



Features

- 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 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 resell HP equipment.

HP. Inc. Corporate Environmental Information

For more information about HP's commitment to the environment:

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 certifications:

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Footnotes

1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.



Technical Specifications – Display

ALL-IN-ONE DISPLAY PANEL SPECIFICATIONS

23.8" diagonal FHD IPS anti-glare WLED-backlit (1920 x 1080)

Non-touch

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

Refresh rate 60 Hz @ 1920 x 1080

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio (typical) 1000:1

Brightness (typical) 250nits

Viewing 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-glareYesResponse time (typical)14ms

Default color temperature Warm (6500K)

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

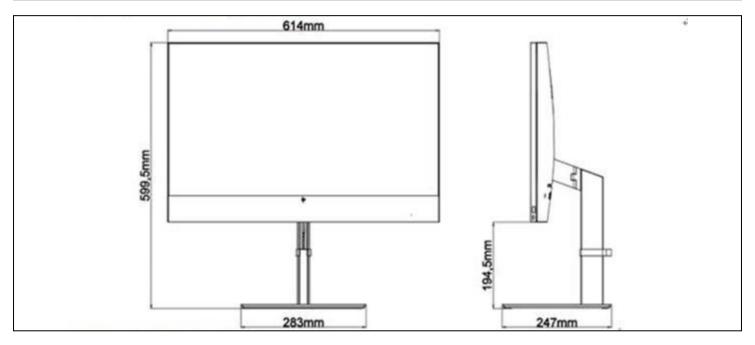


Technical Specifications – Stand

ALL-IN-ONE STAND SPECIFICATIONS

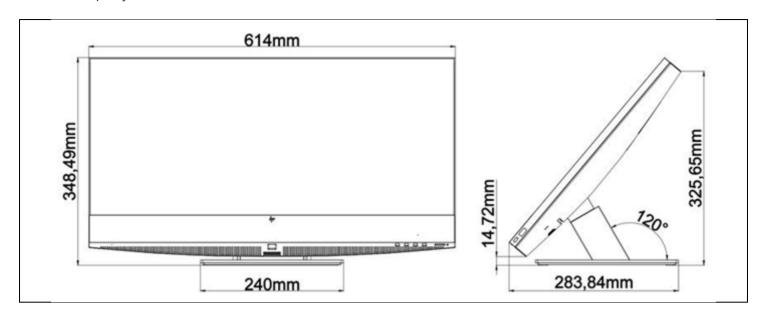
Standard stand:	Tilt angle	-5° to +20°
	Rotation (Swivel)	None

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	130mm (±2 mm)
	Portrait Adjustment	No portrait
	Tilt Angle	-5° to +18° (±2°) in landscape and portrait
	Rotation (Swivel)	86° (±4°) (45 left, 45 right)
	Pivot	No pivot



Recline Stand:	Height - Vertical Adjustment	No height	
	Tilt Angle	+35°(+3°/-0°) to +60° (+/-3°)	
	Rotation (swivel)	No swivel	

Technical Specifications – Stand





Technical Specifications – Storage

STORAGE AND DRIVES

NOTE: Starting from November 1st, 2023, all shipments will require Windows to be installed when selecting a SSD.

128GB M.2 2230 PCIe NVMe SSD

Drive Weight < 10q Capacity 128GB Height 2.3mm Length 30mm Width 22mm Interface **PCIE NVMe Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 780MB/s **Logical Blocks** 290.069.680

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

Features Pyrite

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

256GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10a Capacity 256GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen4 **Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 780MB/s **Logical Blocks** 500,118,192

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

Features APST; ASPM L1.2; NVME spec 1.2

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

512GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g Capacity 512GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen4 **Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 860MB/s



Technical Specifications – Storage

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 36GB (for Windows) of system disk is reserved for the system recovery software.

1TB M.2 2280 PCIe NVMe SSD

Drive Weight < 10q Capacity 1TB Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen4 **Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 860MB/s **Logical Blocks** 1,000,215,216

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

Features APST; ASPM L1.2; NVME spec 1.2

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

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

Drive Weight < 10a Capacity 512GB Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen4 **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 36GB (for Windows) of system disk is reserved for the system recovery software.

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

Drive Weight < 10g
Capacity 1 TB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen4



Technical Specifications – Storage

Maximum Sequential ReadUp to 2900MB/sMaximum Sequential WriteUp to 1100MB/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 36GB (for Windows) of system disk is reserved for the system recovery software.

HP EXTERNAL USB DVD/RW

Drive Manual try load

Interface USB 2.0

Dimensions (H x W x D) 0.55 X 5.41 X 5.94 in (1.40 X 14.40 X 13.75 cm)

Form factor External
Access Times CD 1/3 STROKE 140 ms
DVD 1/3 Stroke 160 ms

Supported media (read) DVD-ROM, DVD-R

DVD-R, DVD-R DL, DVD-RW, DVD+R, DVD+R DL, AND +RW

CD-ROM, CD-ROM XA,

CD-DA

SUPER AUDIO CD CD-R DISCS CD-RW DISCS

CPRM (DVD-R/RW/RAM) SUPPORTED

Supported media (write) DVD-R

DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW CD-R/RW

System requirements Pentium IV 2.4GHz or higher, Compatible (recommended: Pentium IV 3.2GHz or higher)

RAM 256MB or higher (recommended: 128MB)

HDD 20GB or more of available space **Video memory** 64MB or higher (recommend: 128MB)

Maximum speed normal

Write Speeds DVD-RW 6X MAXIMUM BY ZCLV

DVD+RW 8X MAXIMUM BY ZCLV CD-RW 24 X MAXIMUM BY ZCLV

Read Speeds DVD-R/RW/ROM 8 X MAXIMUM

DVD-R DL 8 X MAXIMUM
DVD-VIDEO 4 X MAXIMUM
M-DISC (DVD+R SL) 8 X MAXIMUM
DVD+R/+RW 8 X MAXIMUM
DVD+R DL 8 X MAXIMUM
CD-R/RW/ROM 24 X MAXIMUM

CD-DA 24 X MAXIMUM



Technical Specifications – Storage

Access time Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) (typical reads, including Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

settling) 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 (All conditions, non-condensing)

Temperature (operating, read and write): 41°F to 104°F (5°C to 40°C)

Relative Humidity (operating): 10% to 80%

Relative Humidity (non-condensing, read): 15% to 85%

Relative Humidity (depending on temperature, write): 15% to 85% Temperature (non-operating): -22°F to 104°F (-30°C to 40°C) Relative Humidity (non-operating, non-condensing): 10% to 90%

Option kit contents HP Mobile USB DVD/RW Drive, software, documentation

NOTE: Actual speeds may vary. Intended only for creation and storage of original material and other lawful uses. Double layer discs may not be compatible with many existing single layer DVD drives and players.



Technical Specifications - Audio

HIGH DEFINITION AUDIO

Type Integrated

HD Audio Codec Realtek ALC3274 Audio Codec

Audio I/O Ports Rear 3.5mm combo (microphone/headphone) jack (32 0hm) supporting CTIA and OMTP style

headset

Microphone (2K Ohm)

Analog Audio Yes

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

Internal Speaker Yes - Stereo Speaker

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



Technical Specifications – Input/Output

INPUT/OUTPUT DEVICES

HP Wireless Keyboard

Keys 104, 105 lay out (depending upon country)

Physical Characteristics

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

Operating voltage 5 VDC, +/-5%

Power consumption 50mA Max (All LED on)

Electrical 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

Keycaps Mid-profile design

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

Switch life 10 million keystrokes (Life tester)

Mechanical

Switch type Contamination-resistant switch membrane

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

Cable length 6 ft (1.8 m)

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)

Environmental Operating shock 40 q, 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

Technical Specifications – Input/Output

HP USB Wireless Mouse

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)

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)

Environmental

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

Operating voltage 5 VDC, +/-5%

Power consumption 50mA Max

Electrical Resolution 800, 1200, 1600 DPI

Tracking speed 31 inch/sec (max)

Tracking acceleration 8G(max), 1G=9.8m/s3

Connector USB 2.0 Mechanical

Cable length 6 ft (1.8 m)



Technical Specifications – Input/Output

HP Universal USB Wired Keyboard

Keys 104, 105 layout (depending upon country)

Physical Characteristics Dimensions 18.15 x 6.02 x 1.08 in (461 x 153 x 27.4 mm)

(L x W x H)

Weight 1.32 lb (600g) min
Operating voltage 5 VDC, +/-5%

Power consumption 50mA Max (All LED on)

Electrical 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

Keycaps Mid-profile design

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

Switch life 10 million keystrokes (Life tester)

Mechanical

Switch type Contamination-resistant switch membrane

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

Cable length 6 ft (1.8 m)

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)

Environmental Operating shock 40 g, six surfaces

Non-operating vibration

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

4-q peak acceleration



Technical Specifications – Input/Output

HP USB Universal Wired Mouse

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)

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)

Environmental 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

Operating voltage 5 VDC, +/-5%

Power consumption 50mA Max

Electrical Resolution 800, 1200, 1600 DPI

Tracking speed 31 inch/sec (max)

Tracking acceleration 8G(max), 1G=9.8m/s3

Connector USB 2.0 Mechanical

Cable length 6 ft (1.8 m)



Technical Specifications – Input/Output

HP USB Optical Mouse

Electrical

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)

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)

Environmental Operating shock 40 g, six surfaces

Non-operating shock 80 g, six surfaces

Operating vibration 2-g peak acceleration

Non-operating vibration 4-g peak acceleration

Operating voltage 5 VDC, +/-5%

Power consumption 50mA Max

Resolution 1,000 DPI

Sensor Pixart PAN3606DL

Tracking speed 30 inch/sec (max)

Tracking acceleration 9G(max), 1G=9.8m/s2

Connector USB 2.0 Mechanical

Cable length 6 ft (1.8 m)



Technical Specifications - Networking

NETWORKING/COMMUNICATIONS

Realtek® RTL8111HSH-CG Gigabit Ethernet Controller	Ethernet Features	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 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 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) Jumbo Frame 9K Auto MDI/MDIX Crossover cable detection
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	Performance Features	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling
	Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
	Interface	PCI Express 1.1 x1 to fully support ASPM LOs/L1 and CLKREQ
	NIC Device Driver Name	PCIe GBE Ethernet Family Controller

WLAN*

Realtek® 8852BE Wi-Fi 6¹ (802.11ax) 2x2 with Bluetooth® Wireless Card M.2	
Wireless LAN Standards	IEEE 802.11a
Interoperability	Wi-Fi® certified
Frequency Band	802.11b/g/n/ax • 2.402 – 2.482 GHz 802.11a/n/ac/ax • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz



	• 5.47 – 5.725 GHz
	• 5.825 – 5.850 GHz
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11n: max 300Mbps
	• 802.11ac : max 866.7Mbps • 802.11ax : max 1201Mbps
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ²	• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only
	AES-CCMP: 128 bit in hardware 802.1x authentication
	WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
	• WPA2 certification
	WPA3 certification
	• IEEE 802.11i
	• WAPI
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power ³	• 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
	• 802.11ax HE40(2.4GHz): +10dBm minimum
	• 802.11ax HE80(5GHz): +10dBm minimum
Power Consumption	Transmit mode:2.5 W Receive mode:2 W
	• Idle mode: (PSP) 180 mW (WLAN Associated)
	• Idle mode:50 mW (WLAN vassociated)
	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 ⁴	802.11b, 1Mbps: -93.5dBm maximum
	802.11b, 11Mbps: -84dBm maximum
	802.11a/g, 6Mbps: -86dBm maximum
	802.11a/g, 54Mbps: -72dBm maximum
	802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum
	802.11ac, MCS0: -84dBm maximum
	802.11ac, MCS9: -59dBm maximum
	•802.11ax, MCS11(HE40): -57dBm maximum
	•802.11ax, MCS11(HE80): -54dBm 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 M	PCI-Express M.2 MiniCard	
Dimensions	Type 2230: 2.3 x 2	22.0 x 30.0 mm	
Weight	Type 2230: 2.8g		
Operating Voltage	3.3v +/- 9%	3.3v +/- 9%	
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)	
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)		
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radio OFF; LED White – Radio ON		

- 1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
- 2. Check latest software/driver release for updates on supported security features.
- 3. Maximum output power may vary by country according to local regulations.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

	etooth 4.0/4.1/4.2/5.0/5.1/5.2 Wireless Card Technology			
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2 Wireless Card Compliant			
Frequency Band	2402 to 2480 MHz			
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)			
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps			
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps			
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels. Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-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 Supported Link Topology	Microsoft Windows Bluetooth® Software			
Power Management	Microsoft Windows ACPI, and USB Bus Support			
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark			
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance			



Technical Specifications - Networking

LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Laver Privacy LE Privacy 1.2 - Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) BT5.1 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range



Realtek RT 8852BE-VS Wi-F	i 6 ¹ (802.11ax) 1x1 with Bluetooth® Wireless Card M.2		
Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac		
Interoperability	Wi-Fi® certified		
Frequency Band	802.11b/g/n • 2.402 – 2.482 GHz 802.11a/n • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz		
Data Rates	 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) 802.11ac: MCSO ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz) 		
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM		
Security ²	 IEEE 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 Cisco Certified Extensions, all versions through CCX4 and CCX Lite WAPI 		
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power ³	 802.11b: +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		
Receiver Sensitivity ⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum		



	802.11a/g, 54Mbp 802.11n, MCS07: 802.11n, MCS15: 802.11ac, MCS0: -	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	One embedded du	High efficiency antenna. One embedded dual band 2.4/5 GHz antenna is provided to the card to support WLAN communications and Bluetooth communications			
Form Factor	PCI-Express M.2 M	PCI-Express M.2 MiniCard			
Dimensions	Type 2230: 2.3 x 2	Type 2230: 2.3 x 22.0 x 30.0 mm			
Weight	Type 2230: 2.8g	Type 2230: 2.8g			
Operating Voltage	3.3v +/- 9%	3.3v +/- 9%			
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)			
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)			
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)			
LED Activity	LED Amber – Radi	LED Amber – Radio OFF; LED White – Radio ON			

- 1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.
- 2. Check latest software/driver release for updates on supported security features.
- 3. Maximum output power may vary by country according to local regulations.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology				
Bluetooth® Specification	4.0/4.1/4.2 Compliant			
Frequency Band	2402 to 2480 MHz			
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)			
Data Rates and Throughput	Legacy: 3 Mbps data rate; 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 +4 dBm for BR and EDR.			
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW			
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software			
Power Management	Microsoft Windows ACPI, and USB Bus Support			
Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark			



Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance
	LE Link Layer Ping
	LE Dual Mode
	LE Link Layer
	LE Low Duty Cycle Directed Advertising
	LE L2CAP Connection Oriented Channels
	Train Nudging & Interlaced Scan
	BT4.2 ESR08 Compliance
	LE Secure Connection- Basic/Full
	LE Privacy 1.2 –Link Layer Privacy
	LE Privacy 1.2 –Extended Scanner Filter Policies
	LE Data Packet Length Extension
	FAX Profile (FAX)
	Basic Imaging Profile (BIP)2
	Headset Profile (HSP)
	Hands Free Profile (HFP)
	Advanced Audio Distribution Profile (A2DP)



Technical Specifications - Power

POWER

Efficiency 65W EPS, 88% average efficiency at 115V & 89% at 230Vac

Operating Voltage Range 90Vac~264Vac Rated Voltage Range 100Vac~240Vac **Rated Line Frequency** 50Hz~60Hz Operating Line Frequency 47Hz~63Hz **Rated Input Current** ≤1.6A ≦1.6A

Rated Input Current with Energy

Efficient* Power Supply

DC Output +19.5V

Current Leakage (NFPA 99: 2102) Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as

required for Non-Patient Electrical Appliances and Equipment used in a patient care facility or

that contact patients in normal use. Per section 10.3.5.1.

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

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

Dimensions 102 x 55 x 30 mm

Efficiency 90W EPS, 88% average efficiency at 115V & 89% at 230Vac

90Vac~264Vac **Operating Voltage Range** Rated Voltage Range 100Vac~240Vac 50Hz~60Hz **Rated Line Frequency Operating Line Frequency** 47Hz~63Hz **Rated Input Current** ≤1.6A

Rated Input Current with Energy

Efficient* Power Supply

≦1.6A

DC Output

+19.5V

Current Leakage (NFPA 99: 2102) Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-Patient Electrical Appliances and Equipment used in a patient care facility or

that contact patients in normal use. Per section 10.3.5.1.

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

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

Dimensions 102 x 55 x 30 mm



Technical Specifications - Environmental

ADDITIONAL FEATURES

Description

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

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

were predicted



Summary of Changes

SUMMARY OF CHANGES

Date of change:	Version History:		Description of change:
July 27, 2023	V1 to V2	Update	Back call outs page corrected
August 1, 2023	V2 to V3	Update	Environmental table updated
January 10, 2024	V3 to V4	Update	Memory section updated
January 17, 2024	V4 to V5	Removal	HDD removed from the platform
January 24, 2024	V5 to V6	Correction	Memory mention corrected in "At a glance" section.

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