

### HP ProBook 4 G2iS 14 inch Notebook AI PC



#### Front

- |   |                     |   |            |
|---|---------------------|---|------------|
| 1 | Internal Microphone | 4 | Webcam LED |
| 2 | Webcam              | 5 | Touchpad   |
| 3 | Camera Shutter      |   |            |





### Sides

- |   |                                                                          |   |                                           |
|---|--------------------------------------------------------------------------|---|-------------------------------------------|
| 1 | USB Type-A 5Gbps signaling rate (Powered)                                | 4 | Headphone/mic combo jack                  |
| 2 | USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) | 5 | USB Type-A 5Gbps signaling rate (Powered) |
| 3 | USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) |   |                                           |

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### PRODUCT NAME

HP ProBook 4 G2iS 14 inch Notebook AI PC

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### OPERATING SYSTEM

#### Preinstalled

Windows 11 Home - HP recommends Windows 11 Pro for business <sup>1</sup>

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>1</sup>

Windows 11 Pro <sup>1</sup>

Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup>

Windows 11 Pro Education <sup>1</sup>

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>

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PROCESSORS

| Processor <sup>2,3,4</sup>   | Cores   | Number of P-cores | Number of LP E-cores | Threads | Smart Cache | Max Turbo Frequency |            | NPU     |
|------------------------------|---------|-------------------|----------------------|---------|-------------|---------------------|------------|---------|
|                              |         |                   |                      |         |             | P-cores             | LP E-cores |         |
| Intel® Core™ 7 Processor 350 | 6 cores | 2                 | 4                    | 6       | 6 MB        | 4.8 GHz             | 3.6 GHz    | 17 TOPS |
| Intel® Core™ 5 Processor 320 | 6 cores | 2                 | 4                    | 6       | 6 MB        | 4.6 GHz             | 3.4 GHz    | 16 TOPS |
| Intel® Core™ 5 Processor 315 | 6 cores | 2                 | 4                    | 6       | 6 MB        | 4.4 GHz             | 3.3 GHz    | 15 TOPS |

Processor Family

- Intel® Core 7 processor
- Intel® Core 5 processor

2. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel® numbering, branding, naming are not a measurement of clock speed.

3. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration.

4. 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>

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### GRAPHICS

#### Integrated

Intel® Graphics

#### Supported Protocols

Support HD Decode, DX12, and HDMI

Display supported (including internal display; dock may be required) up to 3

#### Codec

Hardware Acceleration HEVC (H.265) CODEC is an optional feature and must be configured at purchase.

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**DISPLAY**

Availability may vary by country.

**Non-Touch**

35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, 120Hz (VRR), UWVA, BrightView, OLED+Low Blue Light, 500 nits, DCI-P3 100%

**Display Size (Diagonal)**

35.6 cm (14.0")

**Aspect Ratio**

16:10

**Screen to Body Ratio**

Up to 90%

**Max Hinge Open Angle**

177 ± 3°

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## STORAGE AND DRIVES

Read and write speeds are an average of the maximum values measured under full load conditions. Actual performance may vary +/- 20%.

### Storage

- 1 TB PCIe® NVMe™ SSD Value <sup>5</sup>
- 512 GB PCIe® NVMe™ SSD Value <sup>5</sup>
- 256 GB PCIe® NVMe™ SSD Value <sup>5</sup>

5. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software. Storage performance may vary by configuration and usage.



MEMORY

|                                |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Memory Slot                    | Onboard memory, no memory slots                                                                                              |
| Memory Type                    | LPDDR5X                                                                                                                      |
| Maximum supported memory       | 32 GB LPDDR5X-6400 MT/s                                                                                                      |
| Available memory configuration | 32 GB LPDDR5X-6400 MT/s, single-channel<br>16 GB LPDDR5X-6400 MT/s, single-channel<br>8 GB LPDDR5X-6400 MT/s, single-channel |
| Notes                          | System runs at 6400 MT/s<br>Memory is non-accessible / non-upgradeable.                                                      |



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### NETWORKING /COMMUNICATIONS

Items below may be optional.

#### WLAN

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 WW WLAN <sup>6,7</sup>

#### Miracast

Native Miracast Support <sup>8</sup>

6. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited.

Wi-Fi 6E is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 6E is supported.

7. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router.

Requires a wireless router, sold separately, that supports 80MHz and higher channels.

8. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

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### AUDIO/MULTIMEDIA

#### Audio

Audio by Poly Studio

2 Integrated stereo speakers

2 Integrated dual array microphone

AI noise reduction.

#### Speaker Power

2W / 4 ohm per speaker

#### Camera

FHD HDR Camera+IR camera

#### Sensors

Hall Effect Sensor

Thermal Sensor

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

#### Keyboard

HP Standard Keyboard, spill-resistant, Backlit keyboard

HP Standard Keyboard, spill-resistant keyboard

#### Pointing Device

Clickpad

Microsoft Precision Touchpad Default Gestures Support

Multi-touch gesture support

Taps enabled as default

#### Function Keys

ESC - System information

F1 - Audio Mute

F2 - Volume Down

F3 - Volume Up

F4 - Mic Mute

F5 - Media (KB backlight for Brazilian)

F6 - Display Switching

F7 - Screen Capture

F8 - Brightness Down

F9 - Brightness up

F10 - Keyboard Backlight (Copilot for Brazilian)

F11 - Programmable Key(HP app)

F12 - Calculator

Power Button (with LED)

Delete

Microsoft Copilot <sup>9</sup>

#### Hidden Function Keys

Fn+Copilot - Context Menu



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9. Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See [aka.ms/copilotpluspcs](https://aka.ms/copilotpluspcs).

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### SOFTWARE AND SECURITY

#### Application Software

Adobe offer  
Agoda URL  
Agoda Edge Fav  
Booking URL  
Booking Edge Fav  
Buy Microsoft Office (Sold Separately)<sup>10</sup>  
Dropbox Promotion  
ENERGY STAR UWP  
HP System Event Utility - UWP  
HP Setup Integrated OOBE (GDPR)  
Touchpoint Customizer for Consumer  
HP app<sup>11</sup>  
HP Connection Optimizer  
HP PC Hardware Diagnostics UEFI  
HP PC Hardware Diagnostics Windows  
HP Privacy Settings  
HP Support Assistant<sup>12</sup>  
HSA Fusion for Consumer  
HSA Telemetry for Consumer  
McAfee - MLS  
McAfee Checkbox  
McAfee LiveSafe Install Rules Configuration

#### Manageability Features

HP BIOS Recovery  
Windows Cloud Bare Metal Recovery - CPS  
Windows Push Button Reset Recovery-CPS

#### Security Features

Absolute Persistence Module<sup>13</sup>



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### Security- TPM (fTPM)

#### Model

Model: Intel Wildcat

#### Firmware Version

Firmware Version: 700.21.1001.1417

#### TCG

TCG TPM 2.0

#### FIPS 140-3 Compliant

Not FIPS 140-3 compliant.

#### BIOS

HP DriveLock

HP Secure Erase <sup>14</sup>

#### IPv6 Support

Yes

#### FirstNet Certified

No

#### Does the BIOS implement the ISO/IEC 19678:2015 (formerly NIST 800-147) guidelines?

Yes

#### UEFI version

2.9

#### Class

3



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10. Microsoft 365 sold separately and requires Internet access for activation.
  11. HP app requires Windows 10 or higher OS.
  12. HP Support Assistant is available on Windows. For more information, please visit [www.support.hp.com/help/hp-support-assistant](http://www.support.hp.com/help/hp-support-assistant).
  13. Absolute Persistence firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: <https://www.absolute.com/about/legal/agreements/absolute/>
  14. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.
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### POWER

Power supply availability may vary by country.

Battery is internal and replaceable by customer.

Higher wattage adapter is recommended for best performance and fastest charging.

Using lower-capacity third-party USB Type-C® power cables may reduce power delivery.

#### Power Supply

HP 65W Wall Mount USB Type-C® GaN Halogen Free AC power adapter

#### Battery

HP Long Life 4 cell, 70Wh Polymer

Compliant with UL 1642/2054 Standard

#### Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 45 minutes<sup>15</sup>

#### Power Cord

USB-C Power Cable- 2.0m for wall mount adapter

#### Battery life

MM30: Up to 16.25 hours with 70Whr battery (Intel® Core™ 5 320, UMA graphic, brightness set to 200nits on a 14-inch UWVA 500nits OLED+Low Blue Light display, 8GB LPDDR5X memory, 256GB SSD)

Video playback: Up to 22.5 hours with 70Whr battery (Intel® Core™ 5 320, UMA graphic, brightness set to 200nits on a 14-inch UWVA 500nits OLED+Low Blue Light display, 8GB LPDDR5X memory, 256GB SSD)

15. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.



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### WEIGHT & DIMENSIONS

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

Front height measurement is near the front edge where the mechanical chassis taper begins. Back height measurement is near the rear edge where the mechanical chassis taper ends.

#### Product Weight

Starting at 1.18kg (2.59 lb) with 70 Wh battery

#### Product Dimensions (w x d x h)<sup>16</sup>

Width: 313.50 mm (12.34 in)

Depth: 221.40 mm (8.72 in)

Height Front: 8.38 mm (0.33 in)

Height Rear: 12 mm (0.47 in)

Maximum height: 13.50 mm (0.53 in)

#### Pallet Dimensions (w x d x h)

Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details. For detailed packaging information, access the [HP Commercial Notebooks Packaging Guide](#).

16. Typical dimension. Actual dimension may vary +/- 0.5mm. Height may vary based on configuration. Maximum Height does not include Rubber feet.

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### PORTS/SLOTS

#### Left side

1 x USB Type-A 5Gbps signaling rate (Powered)

2 x USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

#### Right side

1 x USB Type-A 5Gbps signaling rate (Powered)

1 x headphone/mic combo jack

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### SERVICE AND SUPPORT

#### Warranty <sup>17</sup>

1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.

17. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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SYSTEM UNIT

Stand - Alone Power Requirements

(AC Power)

|                           |            |
|---------------------------|------------|
| Nominal Operating Voltage | 20.0 V     |
| Max Operating Power       | UMA < 65 W |

Temperature

|                 |                               |
|-----------------|-------------------------------|
| Operating       | 5° to 35° C (41° to 95° F)    |
| Non - operating | -20° to 60° C (-4° to 140° F) |

Relative Humidity

|                 |            |
|-----------------|------------|
| Operating       | 10% to 90% |
| Non - operating | 5% to 95%  |

Shock

|                 |                        |
|-----------------|------------------------|
| Operating       | 40 G, 2 ms, half-sine  |
| Non - operating | 240 G, 2 ms, half-sine |

Random Vibration

|                 |            |
|-----------------|------------|
| Operating       | 1.043 grms |
| Non - operating | 3.500 grms |

Altitude(unpressurized)

|                 |                                         |
|-----------------|-----------------------------------------|
| Operating       | -15 m to 3,048 m (-50 ft to 10,000 ft)  |
| Non - operating | -15 m to 12,192 m (-50 ft to 40,000 ft) |

Industry Standard Certifications

|                         |                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------|
| Regulatory Model Number | TPN-H113                                                                                             |
| CSA/UL 62368-1          | Yes (UL only)                                                                                        |
| ENERGY STAR® 1          | Yes                                                                                                  |
| FCC/ICES/CISPR/VCCI     | Yes                                                                                                  |
| CE MARKING              | Yes                                                                                                  |
| GS Mark                 | No                                                                                                   |
|                         | This is related to government bids, and the review is usually handled by HP China closer to the RTP. |
|                         | They will confirm whether the application is required at that time.                                  |
| China CCC/SRRC/CEL      | Yes                                                                                                  |
| Taiwan BSMI/NCC         | Yes                                                                                                  |
| Korea KCC/KC/KES        | Yes                                                                                                  |



|                                                   |                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Ukraine NSoC/TEC                                  | Yes                                                                                                  |
| EAEU Compliance                                   | Yes                                                                                                  |
| Saudi Arabian Compliance                          | Yes                                                                                                  |
| EPEAT Gold <sup>2</sup>                           | Yes (target done by 10/24)                                                                           |
| Low Blue Light                                    | Yes                                                                                                  |
| WW RoHS                                           | Yes                                                                                                  |
| CECP                                              | No                                                                                                   |
|                                                   | This is related to government bids, and the review is usually handled by HP China closer to the RTP. |
|                                                   | They will confirm whether the application is required at that time.                                  |
| Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: 2015 | No                                                                                                   |
|                                                   | This is related to government bids, and the review is usually handled by HP China closer to the RTP. |
|                                                   | They will confirm whether the application is required at that time.                                  |
| SEPA                                              | No                                                                                                   |
|                                                   | This is related to government bids, and the review is usually handled by HP China closer to the RTP. |
|                                                   | They will confirm whether the application is required at that time.                                  |
| MIL - STD Testing <sup>3</sup>                    | MIL-STD 810H                                                                                         |

1. Configurations that are ENERGY STAR® qualified are identified as ENERGY STAR on HP websites and on <http://www.energystar.gov>

2. Based on US EPEAT® registration according to EPEAT® standards. EPEAT® status varies by country. Visit <http://www.epeat.net> for more information.

3. 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.

## DISPLAYS

Actual brightness will be lower with touchscreen or HP Sure View.  
Availability may vary by country

|                                                                                                                                  |                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|
| <b>35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, 120Hz (VRR), UWVA, BrightView, OLED+Low Blue Light, 500 nits, DCI-P3 100%</b> | <b>Active Area</b>               | 301.824 x 188.640 mm (typ) |
|                                                                                                                                  | <b>Dimensions (W x H)</b>        | 305.450 x 197.720 mm (max) |
|                                                                                                                                  | <b>Weight</b>                    | 132 g (max)                |
|                                                                                                                                  | <b>Diagonal Size</b>             | 14 inch                    |
|                                                                                                                                  | <b>Surface Treatment</b>         | BrightView                 |
|                                                                                                                                  | <b>Touch Enabled</b>             | No                         |
|                                                                                                                                  | <b>Contrast Ratio</b>            | 1000000:1 (typ)            |
|                                                                                                                                  | <b>Refresh Rate</b>              | 120Hz (VRR)                |
|                                                                                                                                  | <b>Brightness</b>                | 500 nits (typ)             |
|                                                                                                                                  | <b>Pixel Resolution</b>          | RGB                        |
|                                                                                                                                  | <b>Pixel Resolution - Format</b> | 2880x1800 (2.8K)           |
|                                                                                                                                  | <b>Aspect Ratio</b>              | 16:10                      |
|                                                                                                                                  | <b>Backlight</b>                 | OLED+LBL                   |
|                                                                                                                                  | <b>Color Gamut Coverage</b>      | DCI-P3 100%                |
|                                                                                                                                  | <b>Color Depth</b>               | 8+2 FRC                    |
|                                                                                                                                  | <b>Viewing Angle</b>             | UWVA 89/89/89/89           |
|                                                                                                                                  | <b>Low Blue Light</b>            | Yes                        |
|                                                                                                                                  | <b>Power Consumption</b>         | EBL@150nits: 4.20 W (Max)  |



STORAGE

|                                           |                  |                                                                          |
|-------------------------------------------|------------------|--------------------------------------------------------------------------|
| 1TB PCIe® NVMe™ SSD Value <sup>1</sup>    | Form Factor      | M.2 2280                                                                 |
|                                           | Capacity         | 1TB                                                                      |
|                                           | NAND Type        | Value                                                                    |
|                                           | Weight           | 0 ~ 10.0 g (0 ~ 0.02 lb)                                                 |
|                                           | Interface        | PCIe NVMe                                                                |
|                                           | Sequential Read  | 3500 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Sequential Write | 2700 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Logical Blocks   | 2,000,409,264                                                            |
|                                           | Features         | Pyrite 2.0; TRIM; L1.2<br>Not all features are available in all versions |
| 512 GB PCIe® NVMe™ SSD Value <sup>1</sup> | Form Factor      | M.2 2280                                                                 |
|                                           | Capacity         | 512GB                                                                    |
|                                           | NAND Type        | Value                                                                    |
|                                           | Weight           | 0 ~ 10.0 g (0 ~ 0.02 lb)                                                 |
|                                           | Interface        | PCIe NVMe                                                                |
|                                           | Sequential Read  | 3500 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Sequential Write | 1600 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Logical Blocks   | 1000215216                                                               |
|                                           | Features         | Pyrite 2.0; TRIM; L1.2<br>Not all features are available in all versions |
| 256 GB PCIe® NVMe™ SSD Value <sup>1</sup> | Form Factor      | M.2 2280                                                                 |
|                                           | Capacity         | 256GB                                                                    |
|                                           | NAND Type        | Value                                                                    |
|                                           | Weight           | 0 ~ 10.0 g (0 ~ 0.02 lb)                                                 |
|                                           | Interface        | PCIe NVMe                                                                |
|                                           | Sequential Read  | 3100 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Sequential Write | 1200 MB/s ±20% (in PCIe Gen4x4 slot)                                     |
|                                           | Logical Blocks   | 500,118,192                                                              |
|                                           | Features         | Pyrite 2.0; TRIM; L1.2<br>Not all features are available in all versions |



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1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.

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NETWORKING / COMMUNICATION

|                                       |                        |                                            |
|---------------------------------------|------------------------|--------------------------------------------|
| Intel® AX211 Wi-Fi 6E                 | Wireless LAN Standards | IEEE 802.11a                               |
| Bluetooth® 5.3 WW WLAN <sup>1,2</sup> |                        | 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                               |
|                                       |                        | Wi-Fi certified                            |
|                                       | Interoperability       |                                            |
|                                       | Frequency Band         | 802.11b/g/n/ax                             |
|                                       |                        | 2.402 - 2.482 GHz                          |
|                                       |                        | 802.11a/n/ac/ax                            |
|                                       |                        | 4.9 - 4.95 GHz (Japan)                     |
|                                       |                        | 5.15 - 5.25 GHz                            |
|                                       |                        | 5.25 - 5.35 GHz                            |
|                                       |                        | 5.47 - 5.725 GHz                           |
|                                       |                        | 5.825 - 5.850 GHz                          |
|                                       |                        | 5.955 - 6.415 GHz                          |
|                                       |                        | 6.435 - 6.515 GHz                          |
|                                       |                        | 6.535 - 6.875 GHz                          |
|                                       |                        | 6.895 - 7.115 GHz                          |
|                                       | Data Rates             | 802.11b: 1, 2, 5.5, 11 Mbps                |
|                                       |                        | 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
|                                       |                        | 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
|                                       |                        | 802.11n: max 300Mbps                       |
|                                       |                        | 802.11ac : 1733Mbps                        |
|                                       |                        | 802.11ax : max 2.4Gbps                     |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Modulation</b>                       | Direct Sequence Spread Spectrum<br>1024-QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, OFDM, QPSK                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Security</b>                         | WPA3 personal and enterprise including WPA2 transition mode.<br>802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA')                                                                                                                                                                                                                                                                                                               |
| <b>Network Architecture</b>             | 128-bit AES-CCMP, 256-bit AES-GCMP<br>Ad-hoc (Peer to Peer)                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Models</b>                           | Infrastructure (Access Point Required)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Roaming</b>                          | IEEE 802.11 compliant roaming between access points                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Output Power</b>                     | 802.11b : +17dBm minimum<br>802.11g : +16dBm minimum<br>802.11a : +17dBm minimum<br>802.11n HT20(2.4GHz) : +14dBm minimum<br>802.11n HT40(2.4GHz) : +13dBm minimum<br>802.11n HT20(5GHz) : +14dBm minimum<br>802.11n HT40(5GHz) : +13dBm minimum<br>802.11ac VHT80(5GHz) : +10dBm minimum<br>802.11ac VHT160(5GHz) : +10dBm minimum<br>802.11ax HE40(2.4GHz) : +12dBm minimum<br>802.11ax HE80(5GHz) : +10dBm minimum<br>802.11ax HE160(5GHz) : +10dBm minimum |
| <b>Power Consumption</b>                | Transmit mode : 2.0 W<br>Receive mode : 1.6 W<br>Idle mode (PSP) : 180 mW (WLAN Associated)<br>Idle mode: 50 mW (WLAN unassociated)<br>Connected Standby/Modern Standby : 10 mW<br>Radio disabled : 8 mW                                                                                                                                                                                                                                                       |
| <b>Power Management</b>                 | ACPI and PCI Express® compliant power management<br>802.11 compliant power saving mode                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Receiver Sensitivity<sup>3</sup></b> | 802.11b, 1Mbps : -93.5dBm maximum<br>802.11b, 11Mbps : -84dBm maximum<br>802.11a/g, 6Mbps : -86dBm maximum                                                                                                                                                                                                                                                                                                                                                     |



|                              |                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | 802.11a/g, 54Mbps : -72dBm maximum                                                                                                                                                                                                                                                                                   |
|                              | 802.11n, MCS07 : -67dBm maximum                                                                                                                                                                                                                                                                                      |
|                              | 802.11n, MCS15 : -64dBm maximum                                                                                                                                                                                                                                                                                      |
|                              | 802.11ac, MCS0(VHT80) : -84dBm maximum                                                                                                                                                                                                                                                                               |
|                              | 802.11ac, MCS9(VHT80) : -59dBm maximum                                                                                                                                                                                                                                                                               |
|                              | 802.11ac, MCS9(VHT160) : -58.5dBm maximum                                                                                                                                                                                                                                                                            |
|                              | 802.11ax, MCS11(HE40): -57dBm maximum                                                                                                                                                                                                                                                                                |
|                              | 802.11ax, MCS11(HE80): -54dBm maximum                                                                                                                                                                                                                                                                                |
|                              | 802.11ax, MCS11(HE160): -53.5dBm maximum                                                                                                                                                                                                                                                                             |
| Antenna Type                 | High efficiency antenna with spatial diversity                                                                                                                                                                                                                                                                       |
|                              | Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications                                                                                                                                                                                 |
| Form Factor                  | PCI Express® M.2                                                                                                                                                                                                                                                                                                     |
| Dimensions                   | 2.30 x 22.00 x 30.00 mm (0.09 x 0.87 x 1.18 inch)                                                                                                                                                                                                                                                                    |
| Weight                       | Type 2230: 2.8 g(0.099 oz)                                                                                                                                                                                                                                                                                           |
| Operating Voltage            | 3.3 v +/- 9 %                                                                                                                                                                                                                                                                                                        |
|                              | <b>Integrated Bluetooth® specifications</b>                                                                                                                                                                                                                                                                          |
| Bluetooth® Specification     | 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant                                                                                                                                                                                                                                                                                |
| Frequency Band               | 2402 to 2480 MHz                                                                                                                                                                                                                                                                                                     |
| Number of Available Channels | Legacy : 0~79 (1 MHz/CH)<br>BLE : 0~39 (2 MHz/CH)                                                                                                                                                                                                                                                                    |
| Data Rates and Throughput    | Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps<br>BLE : 1 Mbps data rate; throughput up to 0.2 Mbps<br>Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Bluetooth® Software</b>           | Microsoft Windows Bluetooth® Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Supported Link Topology</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Power Management</b>              | ACPI and PCI Express compliant power management<br>802.11 compliant power saving mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Certifications</b>                | FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407<br>ETSI 300 328, ETSI 301 893, ETSI 303 687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bluetooth® Profiles Supported</b> | BT4.1-ESR 5/6/7 Compliance<br>LE Link Layer Ping<br>LE Dual Mode<br>LE Link Layer<br>LE Low Duty Cycle Directed Advertising<br>LE L2CAP Connection Oriented Channels<br>Train Nudging & Interlaced Scan<br>BT4.2 ESR08 Compliance<br>LE Secure Connection- Basic/Full<br>LE Privacy 1.2 -Link Layer Privacy<br>LE Privacy 1.2 -Extended Scanner Filter Policies<br>LE Data Packet Length Extension<br>FAX Profile (FAX)<br>Basic Imaging Profile (BIP)2<br>Headset Profile (HSP)<br>Hands Free Profile (HFP)<br>Advanced Audio Distribution Profile (A2DP)<br>BT5.2<br>ESR9/10 Compliance<br>LE Advertisement Extensions<br>Channel Selection Algo<br>Limited High Duty Cycle Non-Connectable Advertising<br>2Mbps LE<br>LE Long Range<br>BT5.3 |



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Host to Controller Encryption Key Control Enhancements  
Compliance to the latest Errata Section 12.3 of BT 5.3  
specification  
Periodic Advertisement interval

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 6E is supported.
  2. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
  3. 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).
- 



POWER

Power supply availability may vary by country.

Battery is internal and replaceable by customer.

Higher wattage adapter is recommended for best performance and fastest charging.

Using lower-capacity third-party USB Type-C® power cables may reduce power delivery.

|                             |                                      |                                                                                                                                                              |
|-----------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HP 65W GaN Wall Mount       | Weight (DC Cable Included)           | 185 g ± 10 g                                                                                                                                                 |
| USB-C Fixed 2 Prong 2.0m AC | Input                                | 90 Vac ~ 264 Vac                                                                                                                                             |
| Power Adapter Kinopio       | Input Efficiency                     | USB-C                                                                                                                                                        |
|                             |                                      | 89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A                                                                                                            |
|                             | Input frequency range                | 47 Hz ~ 63 Hz                                                                                                                                                |
|                             | Input AC current                     | Max 1.60 A at 90 Vac input                                                                                                                                   |
|                             | Output                               |                                                                                                                                                              |
|                             | Output power                         | 20.00 V / 65.00 W                                                                                                                                            |
|                             | DC output                            | + 20.00 V                                                                                                                                                    |
|                             | Hold - up time                       | 5 ms at 115 Vac input                                                                                                                                        |
|                             | Output Over Current                  | 5.50 A (max)                                                                                                                                                 |
|                             | Protection                           |                                                                                                                                                              |
|                             | AC Inlet Type                        | Fixed 2 Prong                                                                                                                                                |
|                             | DC Cable Connector                   | USB Type-C                                                                                                                                                   |
|                             | DC Cable Material                    | Halogen Free                                                                                                                                                 |
|                             | Connector                            |                                                                                                                                                              |
|                             | Connector                            | Fixed 2 Prong                                                                                                                                                |
|                             | Environmental Design                 |                                                                                                                                                              |
|                             | Operating temperature                | 0°C to 35°C (32°F to 95°F)                                                                                                                                   |
|                             | Non - operating(storage) temperature | -20°C to 85°C (-4°F to 185°F)                                                                                                                                |
|                             | Altitude                             | 0 m to 5000 m (0 ft to 16404.2 ft)                                                                                                                           |
|                             | Humidity                             | 20 % to 95 %                                                                                                                                                 |
|                             | Storage Humidity                     | 10 % to 95 %                                                                                                                                                 |
|                             | EMI and Safety Certifications        | Worldwide safety standards - IEC60950-1 and IEC62368-1:<br>2018, EN62368-1:2014+A11, UL62368-1<br>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class |

B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

|                                                                                                  |                                      |                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>HP 65W GaN Wall Mount<br/>USB-C Fixed 2 Prong 2.0m AC<br/>Power Adapter India Kinopio</div> | Weight (DC Cable Included)           | 185 g ± 10 g                                                                                                                                                                                                      |
|                                                                                                  | Input                                | 90 Vac ~ 264 Vac                                                                                                                                                                                                  |
|                                                                                                  | Input Efficiency                     | USB-C                                                                                                                                                                                                             |
|                                                                                                  |                                      | 89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A                                                                                                                                                                 |
|                                                                                                  | Input frequency range                | 47 Hz ~ 63 Hz                                                                                                                                                                                                     |
|                                                                                                  | Input AC current                     | Max 1.60 A at 90 Vac input                                                                                                                                                                                        |
|                                                                                                  | Output                               |                                                                                                                                                                                                                   |
|                                                                                                  | Output power                         | 20.00 V / 65.00 W                                                                                                                                                                                                 |
|                                                                                                  | DC output                            | + 20.00 V                                                                                                                                                                                                         |
|                                                                                                  | Hold - up time                       | 5 ms at 115 Vac input                                                                                                                                                                                             |
|                                                                                                  | Output Over Current                  | 5.40 A (max)                                                                                                                                                                                                      |
|                                                                                                  | Protection                           |                                                                                                                                                                                                                   |
|                                                                                                  | AC Inlet Type                        | Fixed 2 Prong                                                                                                                                                                                                     |
|                                                                                                  | DC Cable Connector                   | USB Type-C                                                                                                                                                                                                        |
|                                                                                                  | DC Cable Material                    | Halogen Free                                                                                                                                                                                                      |
|                                                                                                  | Connector                            |                                                                                                                                                                                                                   |
|                                                                                                  | Connector                            | Fixed 2 Prong                                                                                                                                                                                                     |
|                                                                                                  | Environmental Design                 |                                                                                                                                                                                                                   |
|                                                                                                  | Operating temperature                | 0°C to 35°C (32°F to 95°F)                                                                                                                                                                                        |
|                                                                                                  | Non - operating(storage) temperature | -20°C to 85°C (-4°F to 185°F)                                                                                                                                                                                     |
|                                                                                                  | Altitude                             | 0 m to 5000 m (0 ft to 16404.2 ft)                                                                                                                                                                                |
|                                                                                                  | Humidity                             | 20 % to 95 %                                                                                                                                                                                                      |
|                                                                                                  | Storage Humidity                     | 10 % to 95 %                                                                                                                                                                                                      |
|                                                                                                  | EMI and Safety Certifications        | Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018, EN62368-1:2014+A11, UL62368-1<br>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), |

|                                                                                                         |                                      |                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |                                      | EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC                                                                                                                          |
| <b>HP 65W GaN Wall Mount<br/>USB-C Foldable for 2 prong<br/>2.0m AC Power Adapter<br/>China Kinopio</b> | Weight (DC Cable Included)           | 185 g ± 10 g                                                                                                                                                                                                                                                                    |
|                                                                                                         | Input                                | 90 Vac ~ 264 Vac                                                                                                                                                                                                                                                                |
|                                                                                                         | Input Efficiency                     | USB-C                                                                                                                                                                                                                                                                           |
|                                                                                                         |                                      | 89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A                                                                                                                                                                                                                               |
|                                                                                                         | Input frequency range                | 47 Hz ~ 63 Hz                                                                                                                                                                                                                                                                   |
|                                                                                                         | Input AC current                     | Max 1.60 A at 90 Vac input                                                                                                                                                                                                                                                      |
|                                                                                                         | <b>Output</b>                        |                                                                                                                                                                                                                                                                                 |
|                                                                                                         | Output power                         | 20.00 V / 65.00 W                                                                                                                                                                                                                                                               |
|                                                                                                         | DC output                            | + 20.00 V                                                                                                                                                                                                                                                                       |
|                                                                                                         | Hold - up time                       | 5 ms at 115 Vac input                                                                                                                                                                                                                                                           |
|                                                                                                         | Output Over Current                  | 5.40 A (max)                                                                                                                                                                                                                                                                    |
|                                                                                                         | Protection                           |                                                                                                                                                                                                                                                                                 |
|                                                                                                         | AC Inlet Type                        | Foldable for 2 prong                                                                                                                                                                                                                                                            |
|                                                                                                         | DC Cable Connector                   | USB Type-C                                                                                                                                                                                                                                                                      |
|                                                                                                         | DC Cable Material                    | Halogen Free                                                                                                                                                                                                                                                                    |
|                                                                                                         | <b>Connector</b>                     |                                                                                                                                                                                                                                                                                 |
|                                                                                                         | Connector                            | Foldable for 2 prong                                                                                                                                                                                                                                                            |
|                                                                                                         | <b>Environmental Design</b>          |                                                                                                                                                                                                                                                                                 |
|                                                                                                         | Operating temperature                | 0°C to 35°C (32°F to 95°F)                                                                                                                                                                                                                                                      |
|                                                                                                         | Non - operating(storage) temperature | -20°C to 85°C (-4°F to 185°F)                                                                                                                                                                                                                                                   |
|                                                                                                         | Altitude                             | 0 m to 5000 m (0 ft to 16404.2 ft)                                                                                                                                                                                                                                              |
|                                                                                                         | Humidity                             | 20 % to 95 %                                                                                                                                                                                                                                                                    |
|                                                                                                         | Storage Humidity                     | 10 % to 95 %                                                                                                                                                                                                                                                                    |
|                                                                                                         | EMI and Safety Certifications        | Worldwide safety standards - IEC60950-1 and IEC62368-1:<br>2018, EN62368-1:2014+A11, UL62368-1<br>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC),<br>EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, |

|                                                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   |                                      | NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC                                                                                                                                                                                                                                             |
| <b>HP 65W GaN Wall Mount<br/>USB-C Foldable for 2 prong<br/>2.0m AC Power Adapter<br/>Kinopio</b> | Weight (DC Cable Included)           | 185 g ± 10 g                                                                                                                                                                                                                                                                                                                               |
|                                                                                                   | Input                                | 90 Vac ~ 264 Vac                                                                                                                                                                                                                                                                                                                           |
|                                                                                                   | Input Efficiency                     | USB-C                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                   |                                      | 89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A                                                                                                                                                                                                                                                                                          |
|                                                                                                   | Input frequency range                | 47 Hz ~ 63 Hz                                                                                                                                                                                                                                                                                                                              |
|                                                                                                   | Input AC current                     | Max 1.60 A at 90 Vac input                                                                                                                                                                                                                                                                                                                 |
|                                                                                                   | <b>Output</b>                        |                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                   | Output power                         | 20.00 V / 65.00 W                                                                                                                                                                                                                                                                                                                          |
|                                                                                                   | DC output                            | + 20.00 V                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                   | Hold - up time                       | 5 ms at 115 Vac input                                                                                                                                                                                                                                                                                                                      |
|                                                                                                   | Output Over Current                  | 5.40 A (max)                                                                                                                                                                                                                                                                                                                               |
|                                                                                                   | Protection                           |                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                   | AC Inlet Type                        | Foldable for 2 prong                                                                                                                                                                                                                                                                                                                       |
|                                                                                                   | DC Cable Connector                   | USB Type-C                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                   | DC Cable Material                    | Halogen Free                                                                                                                                                                                                                                                                                                                               |
|                                                                                                   | <b>Connector</b>                     |                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                   | Connector                            | Foldable for 2 prong                                                                                                                                                                                                                                                                                                                       |
|                                                                                                   | <b>Environmental Design</b>          |                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                   | Operating temperature                | 0°C to 35°C (32°F to 95°F)                                                                                                                                                                                                                                                                                                                 |
|                                                                                                   | Non - operating(storage) temperature | -20°C to 85°C (-4°F to 185°F)                                                                                                                                                                                                                                                                                                              |
|                                                                                                   | Altitude                             | 0 m to 5000 m (0 ft to 16404.2 ft)                                                                                                                                                                                                                                                                                                         |
|                                                                                                   | Humidity                             | 20 % to 95 %                                                                                                                                                                                                                                                                                                                               |
|                                                                                                   | Storage Humidity                     | 10 % to 95 %                                                                                                                                                                                                                                                                                                                               |
|                                                                                                   | EMI and Safety Certifications        | Worldwide safety standards - IEC60950-1 and IEC62368-1:<br>2018, EN62368-1:2014+A11, UL62368-1<br>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECPP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS |



and RCM, BIS, BSMI, UAE, UKCA DoC

Battery

|                                                                  |                                   |                                 |
|------------------------------------------------------------------|-----------------------------------|---------------------------------|
| <b>GM 70Whr Long Life Polymer<br/>Fast Charge 4 cell Battery</b> | Weight                            | 246 g ± 10 g                    |
|                                                                  | Cells / Type                      | 2S2P 4 cell Lithium-Ion Polymer |
|                                                                  | <b>Energy</b>                     |                                 |
|                                                                  | Voltage                           | 7.8 V                           |
|                                                                  | Amp - hour capacity               | 9080mAh                         |
|                                                                  | Watt - hour capacity              | 70.82Wh                         |
|                                                                  | <b>Temperature</b>                |                                 |
|                                                                  | Operating (Charging)              | 0°C to 45°C (32°F to 113°F)     |
|                                                                  | Operating (Discharging)           | 0°C to 50°C (32°F to 122°F)     |
|                                                                  | Optional Travel Battery Available | No                              |

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### AUDIO

|                            |                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Codec                      | Realtek ALC712S                                                                                                                                   |
| Audio I/O Ports            | 3.5mm Headset: CTIA only; Headset: CTIA only; Combo headphone/microphone jack; Combo audio jack with CTIA                                         |
| Internal Speaker Amplifier | Audio Codec with class-D                                                                                                                          |
| Multi-streaming Capable    | Playback multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent from jack or integrated speaker. |
| Sampling                   | DAC: Supports resolutions from 16-bit to 24-bit;48.0 kHz to 48.0 kHz<br>ADC: Supports resolutions from 16-bit to 24-bit;48.0 kHz to 48.0 kHz      |
| Internal Speaker           | Yes                                                                                                                                               |

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CHANGELOG

| Date of change | Version History |  | Description of change |
|----------------|-----------------|--|-----------------------|
|                | V1              |  |                       |

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