## So powerful you'll forget it's a laptop



Tackle your most intense workflows with the ZBook Fury—offering a desktop class CPU in a laptop. With integrated or discrete graphics, a stunning display and collaboration features you can edit 8K videos, render in 3D or train machine learning models. Experience extreme pro performance—all on the move.

#### Tackle multiple heavy workflows—simultaneously

Get a desktop class Intel® CPU<sup>1</sup> for unthrottled performance.<sup>2</sup> With up to an NVIDIA RTX<sup>™</sup> 5000 Ada Laptop GPU<sup>3</sup> and thermals designed to keep your PC cool, you can simultaneously tackle model training and deep learning or 3D animation and visual effects.

#### Upgrade. Expand. Evolve

Get desktop-level storage and memory with slots for up to 128GB of RAM,<sup>4</sup> and capacity for 12TB of storage.<sup>4,5</sup> Expansion is simple with tool-free access to removable components, and an extensive port selection to connect to critical accessories.

#### Immerse in your work

Get complete color accuracy and 120Hz refresh rate with an HP DreamColor display<sup>3</sup> or choose an OLED display for absolute blacks and extreme whites.<sup>3</sup> Customize your keyboard lighting and highlight shortcuts with RGB per-key LED backlighting.<sup>6</sup>

#### Create. Communicate. Collaborate

Collaborate on your most intense projects wherever you go. The AI enhanced auto-framing 5MP camera,<sup>7</sup> AI Noise Suppression software<sup>8</sup> to block background noises and Wi-Fi 6E<sup>9</sup> or 5G options<sup>10</sup> let you seamlessly connect from almost anywhere.









### **Additional Features**

#### Windows 11

Work anywhere without compromising on performance or security with Windows 11<sup>11</sup> powered by HP's collaboration and connectivity technology.

#### Intel® Core<sup>™</sup> Processor

Crank up your multi-tasking and productivity with up to Intel vPro® with 13th Gen Intel® Core™ i9 processor, designed to handle complex, multithreaded apps.<sup>2,12</sup>

#### **NVIDIA Graphics**

Tackle your biggest projects with a choice of up to NVIDIA RTX™ 5000 Ada Laptop GPU;<sup>3</sup> certified for pro apps.

#### Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 12 TB local NVMe storage<sup>4,5</sup>

#### Large Memory Configurations

Accelerate your workflow. Power through projects with up to 128 GB RAM<sup>13</sup> for fast rendering, editing and visual effects performance.

#### **HP DreamColor Display**

Have confidence in what you see on screen with an optional HP DreamColor Display with 100% DCI-P3 color gamut and a 120Hz refresh rate you get smooth motion for high-speed videos.<sup>3</sup>

#### **HP Fast Charge**

Long battery life gets you through a day of meetings without plugging in. Quickly recharge your PC with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging.<sup>14</sup>

#### **Z Light Space**

With Z Light Space software,<sup>15</sup> customize your keyboard lighting with the RGB per-key LED backlighting.<sup>16</sup> For commonly used software apps, like Adobe Photoshop, AutoCAD or SOLIDWORKS,<sup>17</sup> use pre-loaded color-maps or create your own.

#### **Vaporforce Thermals**

Keep cool under any workload with HP Vaporforce Thermals,<sup>18</sup> with curved metal blades, that protect your workstation from overheating, so you can cut through your heaviest workloads with peak processing power.

#### 16:10 Aspect Ratio

The 16:10 aspect ratio reduces the need to scroll by showing 11% more vertical content than a 16:9 aspect ratio display. See more of your project without minimizing program menus or toolbars.

#### **HP Context Aware**

HP Context Aware provides AI based optimization to maximize performance when you're working at a table, comfort when you're working from your lap, and responsiveness when you're working on the go.<sup>19</sup>

#### **Easy Battery Management**

Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.<sup>20</sup>



### **Specifications Table**

System         Transmitter         Transmitter with infinitume, su this Loong Halley		
Tamby AASE2         Time Generation Integer Code*** of processor; Lan Generation Integer Code*** of processor           Available Processors*******         Integer Code************************************	Available Operating Systems	Windows 11 Home – HP recommends Windows 11 Pro for business <sup>1</sup> Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) <sup>1,2</sup> Ubuntu 22.04 LTS
Available Intel® Core <sup>®</sup> 10 35004.W timel® UHC sequency: 30 MB 12 cache, 8 P-cores and 8 E-cores, 26 threads) intel® Core <sup>®</sup> 17 35004.W timel® UHC sequency 2.0 GH2 E-core base frequency, 20 C42 P-core base frequency, up to 3.0 GH2 E-core Max Turbo Processors <sup>3,4,1,1,20</sup> Processors <sup>3,4,1,1,20</sup> Intel® Core <sup>®</sup> 17 35004.W timel® UHC sequency, 20 GH2 E-core base frequency, up to 3.0 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 3.3 GH2 E-core Max Turbo frequency, up to 4.3 GH2 E-core Max Turbo frequency up to 4.3 GH2 E-core	Processor family <sup>3,4,5,19,25</sup>	13th Generation Intel® Core™ i9 processor; 13th Generation Intel® Core™ i7 processor; 13th Generation Intel® Core™ i5 processor
128 GB DDR5-4800 ECC SODIMM: 128 GB DDR5-5600 non-ECC SODIMM <sup>7</sup> Transfer rates up to 4000 MT/s.         Memory slots       4 SODIMM: supports dual channe <sup>RA.10</sup> Internal storage       512 GB up to 4 TB PCIe® Get x4 NVMe <sup>TM</sup> N 2 SSD <sup>11</sup> s12 GB up to 4 TB PCIe® Cet x4 NVMe <sup>TM</sup> N 2 SSD <sup>11</sup> Maximum storage capacity       Up to 12 TB         Display size (diagonal)       15.6": 16"         Display size (diagonal)       15.6": 10"         Display size (diagonal)       5.6": 10"         Display size (diagonal, FHD (1920 x 1080), IPS, anti-plare, 250 nits, 45% NTSC: 16" diagonal, WQUXGA (3840 x 2400), OLED, touch, Brightview, eDP + PSR, micro- edge, Low Bue Lipti, 400 nits, 100% DCI-P2, 15" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-plare, 40P + PSR, micro- edge, Low Bue Lipti, 400 nits, 100% DCI-P2, 15" diagonal, WQUXGA (3840 x 2400), OLED, touch, Brightview, eDP + PSR, micro-edge, 1000 nits, 100% SRGB, HP Sure View integrated privacy screen <sup>2,12,2,2</sup> Display size (diagonal, FHD (1920 x 1080), IPS, anti-plare, 250 nits, 45% NTSC: 40.6 cm (17" diagonal, WQUXGA (3840 x 2400), OLED, touch, Brightview, eDP + PSR, micro-edge, 1000 nits, 100% SRGB, HP Sure View integrated privacy screen <sup>2,12,2,2</sup> Display       39.6 cm (15.6" diagonal, FHD (1920 x 1080), IPS, anti-plare, 26P + PSR, micro-edge, 1000 nits, 100% SRGB, HP Sure View integrated privacy screen <sup>2,12,2,2</sup> NUDA RTX*** S000 Ada Generation Laptop GPU (12 GB CDDR6 decicated) NVDIA RTX*** 3000 Ada Generation Laptop GPU (12 GB CDDR6 decicated) NVDIA RTX*** 3000 Ada Generation Laptop GPU (12 GB CDDR6 decicated) NVDIA RTX*** 3000 Ada Genereation Laptop GPU (12 GB CDDR6 decicated)	Available Processors <sup>3,4,5,19,25</sup>	frequency, up to 5.0 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i9-13950HX with Intel® UHD Graphics (1.6 GHz E-core base frequency, 2.2 GHz P-core base frequency, up to 4.0 GHz E-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 32 threads), supports Intel® VPro® Technology Intel® Core™ i7-13850HX with Intel® UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.8 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 12 E-cores, 28 threads), supports Intel® VPro® Technology Intel® Core™ i5-1360HZ with Intel® UHD Graphics (1.9 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo
Maximum memory       Transfer rates up to 4000 MT/s.         Memory slots       4 SODIMK: supports dual channel <sup>8,3,10</sup> Atternal storage       512 GB up to 4 TB PClee® Gen4 4 x4 NVMe <sup>+M</sup> M.2 SSD <sup>11</sup> S12 GB up to 12 TB PClee® VMMe <sup>+M</sup> M.2 SSD SD <sup>11</sup> Display size (diagonal)       15.6°, 16°         Display size (diagonal)       29.6 cm (15.6°); 40.6 cm (16°)         Bisplay size (diagonal)       29.6 cm (15.6°); 40.6 cm (16°)         Bisplay size (diagonal)       29.6 cm (15.6°); 40.6 cm (16°)         Bisplay size (diagonal)       29.6 cm (15.6°); 40.0 fm (1000 N, 1004 N	Chipset	Intel® WM790
internal storage       512 GB up to 4 TB PCIe® Gen4 x4 NVMe™ M.2 SSD <sup>11</sup> file       512 GB up to 2 TB PCIe® NVMe™ M.2 SSD <sup>11</sup> Maximum storage       up to 12 TB         Display size (diagonal)       15.6°; 16°         Display size (diagonal)       39.6 cm (15.6°); 40.6 cm (16°)         # Display size (diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 16° diagonal, WQUXGA (3840 x 2400), OLED, touch, BnghtView, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3; 16° diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% BCIP; 16° diagonal, WQUXGA (2020 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% sR0B; 11° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sR0B; 11° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sR0B; 11° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% sR0B; 10° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sR0B; IPS ure View integrated privacy screen         21.2.32       36 cm (15°) diagonal, FHD (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% sR0B; IPS ure View integrated privacy screen         21.2.32       36 cm (15°) diagonal, FHD (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% sRGB; HP Sure View integrated privacy screen         21.2.32       110% BIRGPRAHC       110% BIRGPRAHC         VIDIA RTX <sup>++</sup> 3000 Add Generation Laptop GPU (12 GE GDDR6 dedicated)       NVIDIA RTX <sup>++</sup> 3000 Add Generation Laptop GPU (12 CE GDDR6 dedicated)         NVI	Maximum memory	
Internal storage       512 GB up to 2 TB PCle® NVMe™ M.2 SED SSD <sup>11</sup> Maximum storage capacity       Up to 12 TB         Display size (diagonal)       15.6°; 16°         Display size (diagonal, metric)       39.6 cm (15.6°; 40.6 cm (16°)         Display size (diagonal, metric)       39.6 cm (15.6°; 40.6 cm (16°)         Display size (diagonal, CM Blue Light, AD on its, 100% DCI-P3, 16° diagonal, WQUXGA (3840 x 2400), 120 Hz, 1PS, ant-glare, 6DP + PSR, micro-edge, 400 nits, 100% SRGB, 147 Dure-edge, 500 nits, 400% Class 2400), OLED, buch, BrightVew, eDP + PSR, micro-edge, 100 nits, 100% SRGB, 147 Dure-edge, 1000 nits, 100% SRGB, 147 Dure NTM * 5000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 5000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 5000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 5000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 4000 Laptop CPU (16 GB GDDR6 dedicated) NVDLA RTX** 4000 Laptop CPU (16 GB GDDR6 dedicated) NVDLA RTX** 4000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 4000 Ada Generation Laptop CPU (12 GB GDDR6 dedicated) NVDLA RTX** 4000 Ada Generation Laptop CPU (16 GB GDDR6 dedicated)	Memory slots	4 SODIMM; supports dual channel <sup>8,9,10</sup>
capacity       0,0 0 12 18         Display size (diagonal)       15.6°; 16°         Display size (diagonal)       39.6 cm (15.6°); 40.6 cm (16°)         Is 6° diagonal, HD (1920 x 1000), IPS, anti-glare, 250 nts, 45% NTSC; 16° diagonal, WQUXGA (3840 x 2400), OLED, touch, Bright/Mew, eDP + PSR, micro-edge, 500 nts, 100% DCL+93. 16° diagonal, WQUXGA (3840 x 2400), OLED, touch, Bright/Mew, eDP + PSR, micro-edge, 500 nts, 100% DCL+93. 16° diagonal, WQUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nts, 100% SRGB, HP Sure View integrated privacy screen <sup>21,23,23</sup> Display       39.6 cm (15.6°) diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nts, 45% NTSC; 16° diagonal, WQUXGA (3840 x 2400), OLED, touch, Bright/New, eDP + PSR, micro-edge, 1000 nts, 100% SRGB, HP Sure View integrated privacy screen <sup>21,23,23</sup> Display       39.6 cm (15.6°) diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nts, 45% NTSC; 106 cm (16°) diagonal, WQUXGA (3840 x 2400), OLED, touch, Bright/New, eDP + PSR, micro-edge, Low Bhe Liptt, 400 nts, 100% SRGB, HP Sure View integrated privacy 3creen <sup>21,23,23</sup> Display       39.6 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nts, 100% SRGB, 100 nts, 100% SRGB, HP Sure View integrated privacy screen 21,23.32         Available Graphics       Integrated: Inte	Internal storage	
39.6 cm (15.6°): 40.6 cm (15°)         15play size (diagonal, metric)       39.6 cm (15.6°): 40.6 cm (15°)         15.6° diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 15° diagonal, WQUXGA (3840 x 2400), 20 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3 HP DremcOote; 15° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB, 10° diagonal, WQUXGA (3840 x 2400), 20 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB, HP Sure View integrated privacy screen <sup>22,532</sup> 01splay       39.6 cm (15°) diagonal, HD (1920 x 1080), IPS, anti-glare, 260 nm (15°) diagonal, WQUXGA (3840 x 2400), 20 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sCRB, HP Sure View integrated privacy screen <sup>22,532</sup> 01splay       39.6 cm (15 °) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 260 nits, 40.6 cm (16°) diagonal, WQUXGA (3840 x 2400), 20 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sGB, HP Sure View integrated privacy screen         40.5 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sGB, HP Sure View integrated privacy screen         40.5 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sGB, HP Sure View integrated privacy screen         40.5 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sGB, HP Sure View integrated privacy screen         40.5 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sGB, HP Sure View integrated privacy screen         40.5 cm (16°) diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 10	Maximum storage capacity	Up to 12 TB
metric)       S95 0 Lin (25.5), 40.5 Uni (25.7)         15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, 0P + PSR, micro-edge, 500 nits, 100% DCI-P3, 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, 0P + PSR, micro-edge, 400 nits, 100% srG6; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% srG6; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% srG6; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% srG6; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP, the SR, micro-edge, 500 nits, 100% bCI-P3, HD preamColor, 40 6 cm (16") diagonal, WUXGA (1820 x 2400), 100 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% bCI-P3, HD preamColor, 40 6 cm (16") diagonal, WUXGA (1820 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% srG6; 400 fin, 100% srG6; 4	Display size (diagonal)	15.6"; 16"
edge, Low Blue Light. 400 nits, 100% DCLP3; 16° diagonal, WQUXGA (1920 x 1200), PS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% SRGB; 116° diagonal, WUXGA (1920 x 1200), PS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% SRGB; 116° diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% DCLP3, 406 cm (16°) diagonal, WQUXGA (3840 x 2400), 102 Lp, 195, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCLP3, 406 cm (16°) diagonal, WQUXGA (3840 x 2400), 102 Lp, 195, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCLP3, HP DreamColor; 40.6 cm (16°) diagonal, WQUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% SRGB; HP Sure View integrated privacy screen 21:23.32         Integrated: Integrated: Integrated: Intel® UHD Graphics Discrete: NVIDIA RTX <sup>™</sup> 5000 Ada Generation Laptop GPU (16 GB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 4000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (12 CB GDDR6 dedicated) NVIDIA	Display size (diagonal, metric)	39.6 cm (15.6"); 40.6 cm (16")
Available Graphics       Intel® UHD Graphics         Available Graphics       NVIDIA RTX™ 5000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated)         NVIDIA RTX™ 4000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated)         NVIDIA RTX™ 3000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated)         NVIDIA RTX™ 4000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated)         NVIDIA RTX™ 41000 Laptop GPU (6 GB GDDR6 dedicated)         NVIDIA RTX™ 41000 Laptop GPU (6 GB GDDR6 dedicated)         NVIDIA RTX™ 41000 Laptop GPU (6 GB GDDR6 dedicated)         Object error         Audio         Audio by Bang & Olufsen, dual stereo speakers with discrete amps, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio with 200Hz Bass Roll off <sup>45</sup> Memory card device <sup>58</sup> 1 SD 7.1 media card reader (select models)         Ports and connectors       Right side: 1 RJ-45; 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-A 5Gbps signaling rate; Left side: 1 power connector; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 Mini DisplayPort™ 1.4a <sup>6,15,24,48,57</sup> Keyboard       HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard	Display	<ul> <li>edge, Low Blue Light, 400 nits, 100% DCI-P3, 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HP DreamColor; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen<sup>21,23,32</sup></li> <li>39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), OLED, touch, BrightView, eDP + PSR, micro-edge, Low Blue Light,400 nits, 100% DCI-P3; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HD DreamColor; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, 40.6 cm (16") diagonal, WQUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% SRGB, 400 nits, 100% SRGB; 40.6 cm (16") diagonal, WQUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% SRGB, HP Sure View integrated privacy screen</li> </ul>
Addression       and down, combo microphone/headphone jack, HD audio with 200Hz Bass Roll off *3         Memory card device <sup>58</sup> 1 SD 7.1 media card reader (select models)         Ports and connectors       Right side: 1 RJ-45; 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-A 5Gbps signaling rate; Left side: 1 power connector; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 Mini DisplayPort™ 1.4a <sup>6,15,24,48,57</sup> Keyboard       HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard	Available Graphics	Intel® UHD Graphics Discrete: NVIDIA RTX <sup>™</sup> 5000 Ada Generation Laptop GPU (16 GB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 4000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 3500 Ada Generation Laptop GPU (12 GB GDDR6 dedicated NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> 2000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX <sup>™</sup> A1000 Laptop GPU (6 GB GDDR6 dedicated)
Ports and connectors       Right side: 1 RJ-45; 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-A 5Gbps signaling rate; Left side: 1 power connector; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 Mini DisplayPort™ 1.4a <sup>6,15,24,48,57</sup> Keyboard       HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard	Audio	Audio by Bang & Olufsen, dual stereo speakers with discrete amps, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio with 200Hz Bass Roll off <sup>45</sup>
Ports and connectors       rate; Left side: 1 power connector; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 Mini DisplayPort™ 1.4a <sup>6,15,24,48,57</sup> Keyboard       HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard	Memory card device <sup>58</sup>	1 SD 7.1 media card reader (select models)
RGB backlit keyboard	Ports and connectors	Left side: 1 power connector; 2 Thunderbolt <sup>™</sup> 4 with USB4 <sup>™</sup> Type-C <sup>®</sup> 40Gbps signaling rate (USB Power Delivery, DisplayPort <sup>™</sup> 1.4, HP Sleep and Charge);
Mouse Extra large, QuietKey, 3-button touchpad	Keyboard	
	Mouse	Extra large, QuietKey, 3-button touchpad



### **Specifications Table**

	LAN:Intel® I219-LM GbE, vPro®; Intel® I219-V GbE, non-vPro® <sup>44</sup> ;
Communications	WLAN:Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® <sup>13</sup> ; WWAN:Intel® XMM™ 7560 LTE Advanced Pro Cat 16; Intel® 5G Solution 5000 <sup>14</sup> ;
Camera	5MP IR Camera <sup>17,18</sup>
Software <sup>26,28,29,35,36,52,59</sup>	Bing search for IE11 HP Hotkey Support HP Noise Cancellation Software HP Recovery Manager HP Support Assistant HP JumpStart Native Miracast support HP Connection Optimizer Adobe® Creative Cloud HP Cloud Recovery HP Admin myHP HP Privacy Settings Data Science Stack HP Easy Clean HP PC Hardware Diagnostics Microsoft 365 and Office (sold separately and Internet access required for activation) HP Presence
Available software	HP Smart Support <sup>43</sup>
Security management 22,27,30,31,34,38,40,46,47,49,50,51	Absolute persistence module HP Device Access Manager HP Power On Authentication HP Security Manager Integrated smart card reader Master Boot Record security Pre-boot authentication HP Sure Click Windows Defender HP Secure Erase HP Manageability Integration Kit HP Secure Erase HP Manageability Integration Kit HP Sure Sense HP Secure Platform HP Sure Recover Gen3 HP BloSphere Gen6 HP Sure Start Gen6 HP Sure Start Gen6 HP Sure Run Gen3 Nano Security Lock Slot HP Client Security Suite Gen7 Trusted Platform Module TPM 2.0 Windows Secured Core Camera privacy shutter HP Privacy Key HP Tamper Lock (select models)
Security Software Licenses	HP Wolf Pro Security Edition <sup>56</sup>
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Power Manager <sup>16</sup>
Power	HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter; HP Slim Smart 230 W External AC power adapter <sup>20</sup>
Battery type	HP Long Life 8-cell, 95 Wh Li-ion polymer <sup>37,39,53</sup>
Dimensions	14.29 x 9.87 x 1.09 in (WWAN); 14.29 x 9.87 x 1.13 in (WLAN); 36.3 x 25.06 x 2.86 cm (WLAN); 36.3 x 25.06 x 2.77 cm (WWAN); 21.73 x 2.71 x 13.58 in 552 x 69 x 345 mm (Package)
Weight	Starting at 5.3 lb; Starting at 2.4 kg
Ecolabels	EPEAT® registered configurations available <sup>41</sup>
Sustainable impact specifications	Low Halogen <sup>42</sup>



#### **Messaging Footnotes**

<sup>1</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance

- Unthrottled in Best Performance Mode and when plugged in.
- <sup>3</sup> Optional feature that must be configured at purchase
- <sup>4</sup> Optional, configurable feature

<sup>5</sup> For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes, Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery softwa

<sup>6</sup> RGB keyboard is an optional feature that must be configured at purchase. Available in the US, UK, Germany and France only

Requires the mvHP application and Windows OS

<sup>8</sup> Al Noise Suppression is delivered automatically through Windows update or can be downloaded from

https://support.hp.com/us-en/drivers. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and <sup>9</sup> Wi-Fi 6E is an optional feature that must be configured at purchase. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior

802.11 specs. And available in countries where Wi-Fi 6E is supported. <sup>10</sup> Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms

and select countries, where carrier supported. <sup>21</sup> NVIDIA RTX<sup>™</sup> 2000 Ada Laptop GPU or higher GPU required for 3D rendering.

<sup>11</sup> 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 feas may apply and additional requirements may apply over time for updates. See http://www.windows.com . <sup>12</sup> Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled

wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro . <sup>3</sup> Up to 64GB memory is an optional, configurable feature.

<sup>14</sup> Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging

time may vary +/-10% due to System tolerance <sup>5</sup> Z Light Space requires Windows 10 or higher

<sup>16</sup> RGB keyboard is an optional, configurable feature. Available only in the US, UK, Germany and France only.

Software sold separately

<sup>18</sup> The HP custom vapor chamber (HP Vaporforce) is only available on configurations with NVIDIA RTX<sup>™</sup> A3000 Laptop GPU and higher GEX.

<sup>19</sup> HP Context Aware requires Windows 10 or higher and an Intel processor <sup>20</sup> HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.

### Technical Specifications Footnotes

<sup>1</sup> 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 addi requirements may apply over time for updates. See http://www.windows.com .

<sup>2</sup> This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between ver will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before versions

uninstalling and installing operating systems to avoid loss of your data. <sup>3</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance. <sup>4</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See

www.intel.com/technology/turboboost for more information. <sup>5</sup> 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

<sup>6</sup> HDMI port-cable not included.

<sup>7</sup> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. <sup>8</sup> Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory channels.

<sup>9</sup> Intel® allows architectures designed with four DIMM slots to run up to 2400 MT/s.
<sup>10</sup> Maximum memory capacities assume Windows 64-bit operating systems. With Windows 32-bit operating systems.

above 3 GB may not all be available due to system resource requirements. <sup>11</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

reserved for system recovery software. <sup>13</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access <sup>14</sup> wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is

supported immediately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in <sup>14</sup> WWAN use requires service service

your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, and in all regions. <sup>15</sup> Mini DisplayPort 1.4 with discrete, 1.2 with UMA.

<sup>16</sup> Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard

17 FHD and HD content required to view HD images respectively

<sup>18</sup> Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and

<sup>19</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode. <sup>1</sup> 150 W power adapter is configurable with Intel UMA graphics. 200 W power adapter is configurable with NVIDIA RTX A1000 and RTX A2000 configurations. 230 W power adapter is configurable with NVIDIA RTX A3000 or higher <sup>21</sup> UHD content required to view UHD images.

HP BIOSphere Gen6 features may vary depending on the platform and configuration. HP BIOSplittle Gello reduces may vary depending on the pation and computation. <sup>24</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings <sup>24</sup> superSpeed USB 20Gbps is not available with Thunderbolt™ 4.

<sup>25</sup> Superspector USD coolings is not available with instructions — — <sup>25</sup> Intel VPro® requires Windows 10 Pro 64 bit or higher, a VPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro

<sup>3</sup> HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/05115630.
 PP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A\_SureClick for complete detail

<sup>9</sup> Available on select HP PCs with Windows 10 and higher and Intel processors.

<sup>30</sup> HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement <sup>31</sup> Absolute Persistence Module: Absolute agent is shipped turned off, and will be activated when custor ien customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with

Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software. <sup>32</sup> Actual brightness will be lower with HP Sure View or touch-screen.

<sup>33</sup> Data Science Stack is available on select SKUs only.

34 Security lock for security slot is sold separately.

<sup>5</sup> HP Support Assistant requires Windows and Internet access
 <sup>8</sup> HP Connection Optimizer requires Windows 10.

<sup>37</sup> Battery is internal and not replaceable by customer. Serviceable by warranty. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year warranty as the platform.
<sup>38</sup> HP Sure Start Gen6 is available on select HP PCs.

<sup>39</sup> HP Sufe start Geno is avalance on series in seri

<sup>9</sup> HP Tamper Lock not supported on Ubuntu OS

4 Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

www.epeat.net for more information.
<sup>42</sup> External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. <sup>43</sup> HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliv

configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit w.hp.com/smart-support.

GbE - The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabi Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. <sup>45</sup> Dual-microphone array when equipped with optional webcam and optional world facing microphone.

<sup>46</sup> HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed

to function in landscape orientation. <sup>47</sup> For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear sanitation method. HP Secure Erase does not support platforms with Intel® Optane

<sup>3</sup> HDMI 2.0b with discrete, 1.4 with UMA.

<sup>4</sup> HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

<sup>50</sup> HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.
<sup>51</sup> HP Sure Run Gen3 is available on select Windows 10 or 11 Pro or higher based HP Pro, Elite and Workstation PCs with

Intel® or AND processors. <sup>52</sup> Select HP Products are enhanced with HP Presence. Features vary by platform. HP conferencing features require Windows and the latest myHP app, available over the air or for download via sofpaq on the HP Support website. Planned

availability in spring 2023. <sup>53</sup> Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other

factors. <sup>56</sup> HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs <sup>56</sup> HP Wolf Pro Security Edition and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish\_3875769-3873014-16 as that EULA is modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelk (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HF

Support. Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams 58 MicroSD 7.1 media reader supports SD 4.0 cards at SD 3.0 speeds with any SD 7.0 host. SD 7.0 card availability is expected later in 2022.

HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructio

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