Overview

## **HP ZBook Fury G1i 18 inch Mobile Workstation PC**



	Lett				
1	ACS & ALS Sensor	9	Security lock slot (Integrated)		
2	Microphone (2)	10	RJ45 Ethernet port (standard)		
3	IR Camera (optional)	11	USB Type-A 5Gbps signaling rate (Powered)		
4	Webcam	12	Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate		
5	Camera Shutter		(USB Power Delivery, DisplayPort™ 2.1)*		
6	IR LEDS (optional)	13	Headphone/mic combo jack		
7	Webcam LED	14	Smart Card Reader		
8	Fingerprint reader / Power button	15	3-button Touchpad		
	*Actual throughout may vary.				



Overview



## Right

- Power Indicator LED
   Power connector
   Thunderbolt™ 5 with USB Type-C® 80Gbps signaling
- 2 Thunderbolt™ 5 with USB Type-C® 80Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)\*
- 4 HDMI 2.1
  - \*Actual throughout may vary.

- 5 USB Type-A 5Gbps signaling rate
- 6 Headphone/mic combo jack
- 7 Smart Card Reader



**Features** 

#### **PRODUCT NAME**

HP ZBook Fury G1i 18 inch Mobile Workstation PC

#### OPERATING SYSTEM

Preinstalled OS FreeDOS

Ubuntu Linux 24.04 Windows 11 Pro<sup>1</sup>

Windows 11 Home - HP recommends Windows 11 Pro for business 1

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>1</sup> Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement)<sup>1</sup>

<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 additional requirements may apply over time for updates. See <a href="http://www.windows.com">http://www.windows.com</a>.

**NOTE:** Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel® and AMD® 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com. A full list of HP products and the Windows 10 versions tested is available on the HP support website. https://support.hp.com/us-en/document/c05195282

#### **PROCESSOR**

Intel® Core™ Ultra 9 Processor 285HX with Intel® Graphics and Intel® AI Boost (13 NPU TOPS), (2.1 GHz E-core base frequency, 2.8 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.5 GHz P-core Max Turbo frequency, 36MB Cache, 8 P-cores and 16 E-cores, 24 threads), supports Intel vPro® Enterprise

Intel® Core™ Ultra 7 Processor 265HX with Intel® Graphics and Intel® AI Boost (13 NPU TOPS),(2.3 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 30MB Cache, 8 P-cores and 12 E-cores, 20 threads), supports Intel vPro® Enterprise

Intel® Core™ Ultra 7 Processor 255HX with Intel® Graphics and Intel® AI Boost (13 NPU TOPS), (1.8 GHz E-core base frequency, 2.4 GHz P-core base frequency, up to 4.5 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 30MB Cache, 8 P-cores and 12 E-cores, 20 threads)



#### **Features**

<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.

<sup>2</sup> Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.

<sup>3</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>4</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>5</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode. <sup>6</sup>Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

#### **CHIPSET**

Intel® WM890

### **GRAPHICS**

#### Integrated

Intel® Graphics

#### **Discrete**

NVIDIA RTX PRO 5000 Blackwell Generation Laptop GPU (24 GB GDDR7 dedicated); NVIDIA RTX PRO 4000 Blackwell Generation Laptop GPU (16 GB GDDR7 dedicated); NVIDIA RTX PRO 3000 Blackwell Generation Laptop GPU (12 GB GDDR7 dedicated); NVIDIA RTX PRO 2000 Blackwell Generation Laptop GPU (8 GB GDDR7 dedicated); NVIDIA RTX PRO 1000 Blackwell Generation Laptop GPU (8 GB GDDR7 dedicated):

#### **Supports**

RTX PRO 5000 / RTX PRO 4000 / RTX PRO 3000 Support Memory ECC DP 2.1, HDMI 2.1b Supports CUDA, Dynamic Boost



# QuickSpecs

**Features** 

### **DISPLAY**

#### **Non-Touch**

45.7 cm (18") diagonal, WQXGA (2560 x 1600), anti-glare, UWVA, LED, 500 nits, eDP 1.4 + PSR2, 165Hz, flat LCD Panel, 100% DCI-P3 **Displays support** 

Supports up to 4 displays through the HP Thunderbolt 280W G4 Dock

### **Display Size**

18.0"

45.7 cm (18")



### **Features**

### **STORAGE AND DRIVES**

### Primary M.2 Storage

4 TB PCle® Gen4x4 NVMe™ M.2 SSD TLC

2 TB PCle® Gen4x4 NVMe™ M.2 SSD TLC

2 TB PCle® Gen4x4 NVMe™ SED SSD

1 TB PCle® Gen4x4 NVMe™ M.2 SSD TLC

1 TB PCIe® Gen4x4 NVMe™ SED SSD

512 GB PCle® Gen4x4 NVMe™ M.2 SSD TLC

512 GB PCle® Gen4x4 NVMe™ SED SSD

2 TB Citadel PCIe-3x4 NVMe™ M.2 2280 TLC SED OPAL2 FIPS SSD

1 TB Citadel PCIe-3x4 NVMe™ M.2 2280 TLC SED OPAL2 FIPS SSD

512GB Citadel PCIe-3x4 NVMe™ M.2 2280 TLC SED OPAL2 FIPS SSD



#### **Features**

#### **MEMORY**

#### **Maximum Memory**

128 GB DDR5-5600 MT/s ECC; 192 GB DDR5-5600 MT/s non-ECC 256 GB DDR5-6400 MT/s non-ECC\*

#### **Memory**

16GB (1x16GB) DDR5 5600 SODIMM Memory 32GB (1x32GB) DDR5 5600 SODIMM Memory 32GB (2x16GB) DDR5 5600 SODIMM Memory 64GB (2x32GB) DDR5 5600 SODIMM Memory 128GB (4x32GB) DDR5 5600 SODIMM Memory 192GB (3x64GB) DDR5 5600 SODIMM Memory 32GB (1x32GB) DDR5 5600 SODIMM ECC Memory 32GB (2x16GB) DDR5 5600 SODIMM ECC Memory 64GB (2x32GB) DDR5 5600 SODIMM ECC Memory 128GB (4x32GB) DDR5 5600 SODIMM ECC Memory

#### **Memory Slots**

4 SODIMM
2 DIMMs per channel; support up to 4000 MT/s
DDR5 SODIMMS, system runs at 4000 MT/s
Supports Dual Channel Memory

\*256 GB DDR5-6400 MT/s non-ECC will be available 2<sup>nd</sup> Half 2025

**NOTE:** 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.



#### **Features**

#### **NETWORKING / COMMUNICATIONS**

#### **WLAN**

Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 WLAN, vPro®1,2 Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 WLAN, non-vPro®1,2

#### **WWAN**

HP R15 5G Solution WWAN<sup>3</sup>

#### **WLPWAN**

Qualcomm 9205 LTE-M (CAT-M1 fSVC)4

#### **NFC**

WNC XRAV-1 NFC

#### Ethernet

Intel I226-LM 2.5GbE Ethernet Controller Intel I226-V 2.5GbE Ethernet Controller

<sup>1</sup>Wi-Fi 7: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

<sup>2</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>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>4</sup>LPWAN (also called Mobile Narrowband) support HP Protect & Trace with Wolf Connect service through the subscription term, but do not support mobile broadband use.



# QuickSpecs

**Features** 

### **AUDIO/MULTIMEDIA**

#### **Audio**

Audio by Poly Studio, 4 integrated stereo speakers; discrete amplifiers 2 integrated dual array digital microphones

### **Speaker Power**

(1W/8 ohm per speaker),

#### Camera

5MP Camera; IR Camera (optional)



#### **Features**

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

### Keyboard

HP Premium Quiet Keyboard — spill-resistant, full-size, backlit keyboard and DuraKeys HP Lumen RGB Z Keyboard — Full-size, per-key RGB backlit keyboard

#### **Pointing Device**

Clickpad with multi-touch gesture support, taps enabled as default

### **Function Keys**

ESC: system information

F1 - Display Switching

F2 - Night Mode / Sure View LED: On = White; Off = Not illuminated

F3 - Brightness Down

F4 - Brightness Up

F5 - Audio Mute LED: On = Amber; Off = not illuminated

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute On = Amber; Off = not illuminated

F9 - Keyboard Backlight

F10 - Insert

F11 - Airplane Mode

F12 - Command center

> Print Screen

> Power On/Off On = White; Off = not illuminated

> Delete

> Fn key lock

> Microsoft Copilot1

#### **Hidden Keys**

home

end

Fn+R = Break

Fn+S = Sys Rq

Fn+C = Scroll Lock

Fn+W = Pause

<sup>1</sup>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. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See http://aka.ms/WindowsAIFeatures



#### **Features**

#### **SOFTWARE AND SECURITY**

#### **Software**

Buy Microsoft Office (Sold Seperatley) CoPilot in Windows with CoPilot Key <sup>1</sup>

**Edge Customization** 

**HP Connection Optimizer** 

**HP Hotkey Support** 

**HP Mac Address Manager** 

**HP Notifications** 

**HP PC Hardware Diagnostics UEFI** 

**HP PC Hardware Diagnostics Windows** 

**HP Privacy Settings** 

HP Services Scan<sup>2</sup>

HP Smart Support 3

HP Support Assistant 4

**HSA Fusion for Commercial** 

**HSA Telemetry for Commercial** 

myHP<sup>5</sup>

Poly Camera Pro

Poly Lens<sup>6</sup>

### **Manageability Features**

HP Client Catalog (download) 7

HP Client Management Script Library (download) 8

HP Cloud Recovery 9

HP Connect for Microsoft Endpoint Manager<sup>10</sup>

HP Driver Packs (download) 11

HP Image Assistant (download) 12

HP Manageability Integration Kit (download) 13

HP Power Manager with Battery Health Manager (download) 14

#### **Security Management**

Secured-Core PC Enable<sup>15</sup>

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: 16

HP Sure Admin 17

HP Sure Click 18

HP Sure Recover 19

HP Sure Run 20

HP Sure Sense 21

HP Sure Start 22

HP Tamper Lock<sup>23</sup>



#### **Features**

#### BIOS

Absolute Persistence Module <sup>24</sup>
Audio Permanent Disable
BIOS Update via Network
HP BIOS Recovery
HP BIOSphere <sup>25</sup>
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor <sup>26</sup>
HP Secure Erase <sup>27</sup>
HP Wake on WLAN

- 1. Copilot key is available on select Windows 11 PCs. Where Microsoft Copilot is not available, the Copilot key will lead to the Bing search engine. Copilot key feature availability varies by market, see aka.ms/keysupport. Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.
- 2. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at <a href="http://www.hpdaas.com/requirements">http://www.hpdaas.com/requirements</a>. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit <a href="http://www.hpdaas.com/requirements">http://www.hpdaas.com/requirements</a>. Not available in China.
- 3. HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit https://www.hpdaas.com/requirements.
- 4. HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant.
- 5. MyHP requires Windows 10 or higher OS.
- 6. Poly Lens Desktop requires a Windows OS.
- 7. HP Client Catalog not preinstalled, however available for download at (https://www.hp.com/us-en/solutions/client-management-solutions.html)
- 8. HP Client Management Script Library (https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools).
- 9. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, 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/computer.
- 10. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- 11. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 12. HP Image Assistant not preinstalled, however available for download at (https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html),
- 13. HP Manageability Integration Kit not presintalled, however available for downloaded from https://www.hp.com/us-



#### **Features**

en/solutions/client-management-solutions.html#tab=manageability-tools.

- 14. HP Power Manager with Battery Health can be downloaded by entering your system information here: https://support.hp.com/in-en/document/ish\_4449597-3519507-16.
- 15. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 16. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
- 17. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
- 18. HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A\_SureClick for complete details.
- 19. HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
- 20. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 21. HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.
- 22. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- 23. HP Tamper Lock must be enabled by the customer or your administrator.
- 24. 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/.

- 25. HP BIOSphere features may vary depending on the platform and configuration.
- 26. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 27. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.



# QuickSpecs

### **Features**

#### **POWER**

### Power Supply 16

HP 200W Slim 4.5 mm PFC Right Angle Smart (3-pin) AC Power Adapter; HP 280W Slim 4.5 mm PFC Right Angle Smart (3-pin) AC Power Adapter; HP 330W Slim 4.5 mm PFC Right Angle Smart (3-pin) AC Power Adapter; Not Included AC Adapter

#### **Battery**

HP 99 Wh Long Life Polymer Fast Charge 8 cell Battery

#### **Power Cord**

C13 1.83m Paper Sticker Flange Premium CWP Black Straight Halogen Free Power Cord
C13 1.83m Paper Sticker Flange Premium CWP Black Straight Power Cord
Not Included Power Cord

### **Battery life**

**TBD** 



**Features** 

### **WEIGHT & DIMENSIONS**

### Weight1

Starting at 7.78 lb (Weight varies by configuration and components.) Starting at 3.52 kg; (Weight varies by configuration and components.)

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

15.88 x 11.41 x 1.10 in (Dimensions vary by configuration) 40.3 x 28.9 x 2.7 cm (Dimensions vary by configuration)



### **Features**

### **PORTS/SLOTS**

#### **Left Side**

1 power connector

2 Thunderbolt<sup>™</sup> 5 with USB Type-C<sup>®</sup> 80 Gbps signaling rate (USB Power Delivery, DisplayPort<sup>™</sup> 2.1)\*

1 HDMI 2.1

SD 7.0 Media Card Reader

#### Right side:

1 Thunderbolt™ 4 with USB Type-C® 40 Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)\*

1 USB Type-A 10Gbps signaling rate

1 headphone/microphone combo

1 RJ-45

1 nano security lock slot

1 smart card reader

#### **Expansion Slots**

SD 7.0 Media Card Reader

\*Actual throughout may vary.



#### **Features**

#### **SERVICE AND SUPPORT**

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.

#### **Certification and Compliance**

ENERGY STAR® certified EPEAT® registered configurations available Low halogen

### **Sustainable Impact Specifications**

40% post-consumer recycled plastic
Bulk packaging available
External power supply 90% efficiency;
Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable;
Outside box and corrugated cushions are 100% sustainably sourced and recyclable



## Technical Specifications – System Unit

#### **SYSTEM UNIT**

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage 19.5V

**Average Operating Power** 

**Integrated graphics** CPU < 55W

**Discrete Graphics** NVIDIA RTX PRO 5000 Blackwell 135W

NVIDIA RTX PRO 4000 Blackwell 135W NVIDIA RTX PRO 3000 Blackwell 115W NVIDIA RTX PRO 2000 Blackwell 60W NVIDIA RTX PRO 1000 Blackwell 60W

Max Operating Power <330W

**Temperature** 

**Operating** 32° to 95° F (0° to 35° C), System performance may be reduced above 32°C (89.6°F).

No sustained direct exposure to sunlight.

Non-operating -4-140°F (-20 - 60°C)

**Relative Humidity** 

**Operating** 10% to 90%, non-condensing

**Non-operating** 5% to 95%; 38.7C (101.6F) maximum wet bulb tempera-ture; non-condensing.

Shock

Operating40 G, 2 ms, half-sineNon-operating240G, 2ms, half sine

**Random Vibration** 

**Operating** 0.079 ~ 1.043 grams

Non-operating 3.5 grams

Altitude (unpressurized)

 Operating
 3048m (10,000ft)

 Non-operating
 12192m (40,000ft)

**Planned Industry Standard Certifications** 

**Regulatory Model Number** HSN-I64C-8

UL Yes **CSA** Yes **FCC Compliance** Yes **ENERGY STAR®** Yes **EPEAT** Gold **ICES** Yes Australia / Yes **NZ A-Tick Compliance** Yes Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** No



QuickSpecs

HP ZBook Fury G1i 18 inch Mobile Workstation
PC

## Technical Specifications – System Unit

CIT

EAC Yes SASO Yes SABS Yes

**UKRSERTCOMPUTER** 



## Technical Specifications – Displays

#### **DISPLAYS**

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

18.0 in WQXGA (2560 x 1600) Anti-Glare UWVA LED DCI-P3 100 500 eDP 1.4+PSR2 165Hzflat LCD Panel

 Outline Dimensions (W x H)
 394.56 x 264.80 (max)

 Active Area
 387.76 x 242.35 (typ)

Weight 560 (max)

**Diagonal Size** 18

**Thickness** 3.32/3.5 (max)

Interface eDP 1.4
Surface Treatment Anti-Glare

**Touch Enabled** No

Contrast Ratio1200:1 (typ)Refresh Rate165Hz (typ)Brightness500 (typ)

Pixel Resolution - Format 2560 x 1600 (WQXGA)

**Backlight** WLED **Pixel Resolution** RGB

Color Gamut Coverage DCI P3 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

**Power Consumption (W, EBL@** 4.18 (max)/4.97(max)

150nits max/ 200nits max)



## Technical Specifications – Storage

### **STORAGE**

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell

Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 3500 MB/s ±20%

 Logical Blocks
 1000215215

**Features** Pyrite 2.0; TRIM; L1.2

### SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell

Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 2000409264

**Features** Pyrite 2.0; TRIM; L1.2

### 1TB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive

Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 2000409264

**Features** Pyrite 2.0; TRIM; L1.2

# 1TB PCIe-5x4 2280 NVMe Solid State Drive



## Technical Specifications – Storage

Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen5X4

 Sequential Read
 13000 MB/s ±20%

 Sequential Write
 9000 MB/s ±20%

**Logical Blocks** 

Features Pyrite 2.0; TRIM; L1.2

### 2TB PCIe-4x4 2280 NVMe Three Layer Cell Solid State Drive

Form Factor M.2 2280
Capacity 2TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 4000797360

**Features** Pyrite 2.0; TRIM; L1.2

### 2TB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive

Form Factor M.2 2280
Capacity 2TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 4000797360

**Features** Pyrite 2.0; TRIM; L1.2

## 2TB PCIe-5x4 2280 NVMe Solid State Drive

Form Factor M.2 2280
Capacity 2TB
NAND Type TLC



Technical Specifications – Storage

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen5X4

 Sequential Read
 13500 MB/s ±20%

 Sequential Write
 10000 MB/s ±20%

**Logical Blocks** 

**Features** Pyrite 2.0; TRIM; L1.2

4TB PCIe-4x4 2280 NVMe Three Layer Cell double-sided M.2 Solid State Drive

Form Factor M.2 2280
Capacity 4TB
NAND Type TLC
Weight 15 g

InterfacePCIe NVMe Gen4X4Sequential Read6400 MB/s ±20%Sequential Write5000 MB/s ±20%Logical Blocks8001573552

**Features** Pyrite 2.0; TRIM; L1.2



## **NETWORKING / COMMUNICATION**

Intel BE200 Wi-Fi 7 +BT 5.4 M.2 320MHz PCIe World-wide WLAN vPro 1

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11be
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n/ax/be
	2.402 – 2.482 GHz
	802.11a/n/ac/ax/be
	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
	802.11be : max 5.76Gbps
Modulation	Direct Sequence Spread Spectrum
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM,



Security<sup>3</sup>

4096QAM

mode only

IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g

## Technical Specifications – Networking

AES-CCMP: 128 bit in hardware

802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification WPA3 certification IEEE 802.11i

WAPI

Network Architecture Models Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between access points

**Output Power**<sup>2</sup> 802.11b, 1Mbps: +17dBm minimum 802.11g, 6Mpbs: +16dBm minimum

802.11a, 6Mbps: +17dBm minimum 802.11n, MCS7(HT20): +14dBm minimum 802.11n, MCS7(HT40): +13.5dBm minimu 802.11ac MCS9(VHT20): 13.5dBm minimum 802.11ac MCS9(VHT40): +13.5dBm minimum 802.11ac MCS9(VHT80): +12.5dBm minimum 802.11ac MCS9(VHT160): +10.5dBm minimum 802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum

802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum 802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum

802.11be MCS13(EHT20)(6GHz): 11.5dBm 802.11be MCS13(EHT40)(6GHz): 7.5dBm 802.11be MCS13(EHT80)(6GHz): 7.5dBm 802.11be MCS13(EHT160)(6GHz): 6.5dBm 802.11be MCS13(EHT320)(6GHz): 4.5dBm

**Power Consumption** Transmit mode 3.1 W

Receive mode 1.8 W

Idle mode (PSP) 180 mW (WLAN Associated) Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mW

Radio disabled 8 mW

**Power Management** ACPI and PCI Express compliant power management

802.11 compliant power saving mode

**Receiver Sensitivity**<sup>3</sup> 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -85dBm maximum 802.11a/g, 6Mbps: -90.5dBm maximum 802.11a/g, 54Mbps: -72.5dBm maximum 802.11n, MCS0(HT20): -90dBm maximum 802.11n, MCS7(HT20): -71.5dBm maximum 802.11n, MCS0(HT40): -88.5dBm maximum



Technical Specifications – Networking

802.11n, MCS7(HT40): -68.5dBm maximum
802.11ac, MCS9(VHT20): -88.5dBm maximum
802.11ac, MCS9(VHT40): -65.5dBm maximum
802.11ac, MCS9(VHT80): -60.5dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum
802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum
802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum
802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum
802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum
802.11be, MCS13(EHT40)(6GHz): -51.5dBm maximum
802.11be, MCS13(EHT40)(6GHz): -51.5dBm maximum
802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum
802.11be, MCS13(EHT160)(6GHz): -48.5dBm 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 MiniCard

**Dimensions** 1. Type 2230 : 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

**Weight** 1. Type 2230 : 2.8g

2. Type 1216: 1.3g

Operating Voltage 3.3v +/- 9%

**Humidity** 

**Temperature** Operating: 14° to 158° F (–10° to 70° C)

Non-operating: -40° to 176° F (-40° to 80° C) Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)

**Altitude** Operating: 0 to 10,000 ft (3,048 m)

Non-operating: 0 to 50,000 ft (15,240 m)

**LED Activity** LED Amber – Radio OFF; LED OFF – Radio ON

**Subtitle** HP Integrated Module with Bluetooth

4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Technology

**Bluetooth Specification** 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

**Frequency Band** 2402 to 2480 MHz

**Number of Available Channels** Legacy : 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps,

voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)



Technical Specifications – Networking

Transmit Power The Bluetooth component shall operate as a Class I Bluetooth

device with a maximum transmit power of +15.5 dBm for BR and

+13dBm for EDR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

**Bluetooth Software Supported** 

**Link Topology** 

1. Microsoft Windows Bluetooth Software 2. Linux/Chrome OS Bluetooth Software.

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

**Certifications** FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407

ETSI 300 328, ETSI 301 893, ETSI 303 687

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

LE Link Layer Ping LE Dual Mode LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

BT5.2

ESR9/10 Compliance

LE Advertisement Extensions Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

2Mbps LE LE Long Range

BT5.3

Host to Controller Encryption Key Control Enahancements

Compliance to the latest Errata Section 12.3 of BT 5.3 specification



### Technical Specifications – Networking

- 1.Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Intel BE200 Wi-Fi 7 +BT 5.4 M.2 320MHz PCIe World-wide WLAN non-vPro 1

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11be
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n/ax/be
	2.402 – 2.482 GHz
	802.11a/n/ac/ax/be
	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
	•



Technical Specifications – Networking

802.11ac : 1733Mbps 802.11ax : max 2.4Gbps

802.11be: max 5.76Gbps

**Modulation** Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM,

4096QAM

Security<sup>3</sup> IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g

mode only

AES-CCMP: 128 bit in hardware

802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification WPA3 certification IEEE 802.11i

WAPI

Network Architecture Models Ad-hoc (Peer to Peer)

**Output Power<sup>2</sup>** 

Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between access points

802.11b, 1Mbps : +17dBm minimum 802.11g, 6Mpbs : +16dBm minimum

802.11a, 6Mbps : +17dBm minimum

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802.11ac MCS9(VHT40): +13.5dBm minimum 802.11ac MCS9(VHT80): +12.5dBm minimum 802.11ac MCS9(VHT160): +10.5dBm minimum

802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum

802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum

802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum 802.11be MCS13(EHT20)(6GHz): 11.5dBm

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802.11be MCS13(EHT320)(6GHz): 4.5dBm

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Receive mode 1.8 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mW

Radio disabled 8 mW



Technical Specifications – Networking

**Power Management** ACPI and PCI Express compliant power management

802.11 compliant power saving mode

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802.11n, MCS7(HT20): -71.5dBm maximum 802.11n, MCS0(HT40): -88.5dBm maximum 802.11n, MCS7(HT40): -68.5dBm maximum

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802.11ac, MCS9(VHT80) : -60.5dBm maximum 802.11ac, MCS9(VHT160) : -58.5dBm maximum

802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum 802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum 802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum 802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum 802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum

802.11be, MCS13(EHT40)(6GHz): -53.5dBm maximum 802.11be, MCS13(EHT80)(6GHz): -51.5dBm maximum 802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum 802.11be, MCS13(EHT320)(6GHz): -45.5dBm 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 MiniCard

**Dimensions** 1. Type 2230 : 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

**Weight** 1. Type 2230 : 2.8g

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Operating Voltage 3.3v +/- 9%

**Temperature** Operating: 14° to 158° F (–10° to 70° C)

Non-operating: -40° to 176° F (-40° to 80° C) Operating: 10% to 90% (non-condensing)

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

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4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Technology

**Bluetooth Specification** 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

Frequency Band 2402 to 2480 MHz



Technical Specifications – Networking

Number of Available Channels Legacy : 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps,

voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1

kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

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+13dBm for EDR.

**Power Consumption** Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

**Bluetooth Software Supported** 

**Link Topology** 

1. Microsoft Windows Bluetooth Software

2. Linux/Chrome OS Bluetooth Software.

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

**Certifications** FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407

ETSI 300 328, ETSI 301 893, ETSI 303 687

Bluetooth Profiles Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

BT5.2

ESR9/10 Compliance

LE Advertisement Extensions

**Channel Selection Algo** 

Limited High Duty Cycle Non-Connectable Advertising



## Technical Specifications – Networking

2Mbps LE LE Long Range

BT5.3

Host to Controller Encryption Key Control Enahancements Compliance to the latest Errata Section 12.3 of BT 5.3 specification

1.Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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.

- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

#### **HP 5G Sub-6 Cat 19**

#### Technology/Operating bands

WCDMA/HSPA+ operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

LTE FDD/TDD operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL) Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)

Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)

Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)

Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL) Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)

Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)

Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

Band 29: 717 to 728 MHz (DL)

Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

Band 32: 1452 to 1496 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL)



## Technical Specifications – Networking

Band 38: 2570 to 2620 MHz (UL/DL)
Band 39: 1880 to 1920 MHz (UL/DL)
Band 40: 2300 to 2400 MHz (UL/DL)
Band 41: 2496 to 2690 MHz (UL/DL)
Band 42: 3400 to 3600 MHZ (UL/DL)
Band 43: 3400 to 3800 MHZ (UL/DL)
Band 46: 5150 to 5925 MHZ (DL)
Band 48: 3550 to 3700 MHZ (UL/DL)

Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

5GNR Sub 6GHZ

n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL) n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

n38: 2570 to 2620 MHz (UL/DL) n40: 2300 to 2400 MHz (UL/DL) n41: 2496 to 2690 MHz (UL/DL) n48: 3550 to 3700 MHZ (UL/DL)

n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

n77: 3300 to 4200 MHz (UL/DL) n78: 3300 to 3800 MHz (UL/DL) n79: 4400 to 5000 MHz (UL/DL)

### Wireless protocol standards

200MHz 2 DLCA, 256 QAM 200MHz 2 ULCA, 256 QAM 15KHz/30KHz SCS for FDD/TDD

LTE Rel15

NR Sub6G rel15

100MHz 5 DLCA, 256 QAM 40MHz 2 ULCA, 256 QAM

**UMTS Rel8** 

GPS bands

**GPS** 

GPS only support L1 C/A GPS: L1 (1575.42MHz) GLONASS: L1 (1602MHz) BeidouB1(1561.098MHz) Galileo E1 (1575.42) QZSS(1575.42 MHz)



Maximum data rates Sub-6 SA Peak

DL 4.67Gbps/UL 1.25Gbps

Sub-6 NSA Peak

DL 3.74Gbps/UL 835Mbps

LTE Peak

DL 1.6Gbps (CAT19)/UL 211Mbps (CAT18)

UMTS/HSPA+

DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)

Maximum output power NR:

23 dBm in all band except (n30 = 22dBm & n48=21dBm &

n77=25dBm & n41/n77/n78 = 26dBm)

LTE:

23 dBm in all band except (B30 = 22dBm & B48=21dBm &

B41=26dBm) UMTS:

23.5 dBm

Maximum power consumption 3500 mA (peak); 1674mA (average)

**Form Factor** M.2, 3052-S3 Key B

Weight 8.7g

**Dimensions** 52 mm × 30 mm × 2.3 mm

(Length x Width x Thickness)

embedded eSIM Support

1. 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.

#### Oualcomm 9205

**Technology/Operating bands** FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 800 (Band 27), 700 (Band 28), 1700/2100 (Band 66),

700 (band 85) MHz.

GSM/GPRS/EGPRS: 850, 900, 1800, 1900MHz.

Wireless protocol standards l 3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance

specification; Part 1: Conformance specification

l 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance

specification; Radio transmission and reception; Part 1:

Conformance testing

l 3GPP TS 21.111 V10.0.0: USIM and IC card requirements

l 3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity



Module - Mobile Equipment (SIM-ME) interface

l 3GPP TS 31.102 V10.11.0: Characteristics of the Universal

Subscriber Identity Module (USIM) application

l 3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module

(USIM) Application Toolkit (USAT)

l 3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment l 3GPP TS 27.007 V10.0.8: AT command set for User Equipment

(UE)

l 3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)

GPS Standalone GPS/Beidou/Glonass, A-GPS(XTRA)

**GPS bands** 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou

1561.098 MHz

Maximum data rates LTE FDD: 375 Kbps (Download), 1119 Kbps (Upload)

GSM:

- GPRS: 107 Kbps (Download), 85.6 Kbps (Upload)- EGPRS: 296 Kbps (Download), 236.8 Kbps (Upload)

Maximum output power LTE: 21.5 dBm in all band

GSM:34dBm

Maximum power consumption LTE: 147 mA(peak), 18 mA(average)

Form Factor M.2 Weight 4 g

**Dimensions** 22 x 42 x 2.3 mm

(Length x Width x Thickness)

embedded eSIM Support

Chipset NPC300
System interface I2C

NFC RF standards ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2

Reader (PCD-VCD) Mode(1) ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K



MIFARE DESFire

FeliCa

Jewel and Topaz cards

Card Emulation (PICC-VICC)

ISO/IEC 14443 A

Mode(1)

ISO/IEC 14443 B and B'

**MIFARE** 

FeliCa

Frequency

13.56 MHz

**NFC Modes Supported** Reader/Writer, Peer-to-Peer **Raw RF Data Rates** 106, 212, 424, 848 kbps

Operating: 0 °C to 70 °C (32 °F to 158 °F) Operating temperature Storage temperature Storage: -20 °C to 125 °C (-4 °F to 257 °F)

**Humidity** 

10-90% operating

5-95% non-operating Supply Operating voltage

I/O Voltage

4.35 to 5.25 Volts

**Power Consumption** 

1.8V or 3.3V

(Booster enable, VBAT= 3.3V, VCC\_BOOST = 5V)

(Booster enable, VBAT= 3.3V,

 $VCC_BOOST = 5V$ 

Mode Power Consumption, Typical

**Polling** 7.3 mA

**Detected Test Tag Type 1** Total 283.8 mA

Net Module 236.8 mA

Total 288.8 mA **Detected Test Tag Type 2** 

Net Module 241.8 mA

**Detected Test Tag Type 3** Total 287.7 mA

Net Module 240.7 mA

Total 282.3 mA **Detected Test Tag Type 4** 

Net Module 235.3 mA

Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna Antenna

matching is external to module.

### Intel® I226-LM 2.5 Gigabit **Network Connection LOM** (vPro)

Connector **RJ-45** 

**System Interface** PCI(Intel proprietary) + SMBus

**Data rates supported** 1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses

13-14)

2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3

clauses 21-30)

3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3

clauses 40)



Technical Specifications – Networking

4. 2.5 Gbit/s operation( 2.5GBASE-T; IEEE 802.3bz Clause 126)

5. Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 &

100 Mbit/s

IEEE Compliance IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q VLAN support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

IEEE 802.3az EEE (Energy Efficient Ethernet)

IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BAE-T IEEE 802.3bz 2.5GBASE-T

**Performance** TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload Receiving Side Scaling(Hash Mode Only)

Jumbo Frame 9K

**Power consumption** Cable Disconnection: 25mW

100Mbps Full Run: 450mW 1000Mbp Full Run: 1000mW 2500Mbp Full Run: 4500mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW

**Power** ACPI compliant – multiple power modes

**Management** Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

Management Interface

IT Manageability

Auto MDI/MDIX Crossover cable detection

Wake-on-LAN from modern standby or sleep state (Magic Packet

and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic

Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status

Security & Manageability Intel® vPro™ support with appropriate Intel® chipset components

Intel® I226V 2.5 Gigabit Network Connection LOM (non-vPro)

Connector RJ-45

System Interface PCI(Intel proprietary) + SMBus



### Technical Specifications – Networking

**Data rates supported** 1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses

2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3

clauses 21-30)

3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3

clauses 40)

4. 2.5 Gbit/s operation(2.5GBASE-T; IEEE 802.3bz Clause 126)

5. Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10&

100 Mbit/s

**IEEE Compliance** IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q VLAN support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32;

configurable)

IEEE 802.3az EEE (Energy Efficient Ethernet)

IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BAE-T IEEE 802.3bz 2.5GBASE-T

**Performance** TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload Receiving Side Scaling(Hash Mode Only)

Jumbo Frame 9K

**Power consumption** Cable Disconnection: 25mW

> 100Mbps Full Run: 450mW 1000Mbp Full Run: 1000mW 2500Mbp Full Run: 4500mW WoL Enable(\$3/\$4/\$5): 50mW WoL Disable(S3/S4/S5): 25mW

ACPI compliant - multiple power modes **Power** 

Management Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

**Management Interface** 

Auto MDI/MDIX Crossover cable detection IT Manageability

Wake-on-LAN from modern standby or sleep state (Magic Packet

and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic

Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status



# HP ZBook Fury G1i 18 inch Mobile Workstation

Technical Specifications – Networking
Security & Manageability

Intel® non-vPro™ support with appropriate Intel® chipset components



### Technical Specifications – Power

#### **POWER**

Power supply availability may vary by country.

HP 200W Slim 4.5 mm PFC Right Angle Smart (3-pin) AC Power Adapter Eris+

**Dimensions** 6.496 x 3.11 x 1.0 in (16.5x7.9x2.54cm)

**Weight** 530q(+/-10q) (Not including power cord. Power cord varies by

country.)

**Input Voltage** 100-240Vac

**Input Efficiency** 88 % at 115 Vac and 89 % at 230 Vac

**Input frequency range** 47-63 Hz

**Input AC current** Max. 3.0 A at 90 Vac

Output

Output power200WDC output19.5V

**Hold-up time** 100% load 5ms at 115 Vac input

Output Over Current < 21.0A

**Protection** 

Connector C14

**Connector** 4.5mm Barrel Type

**Environmental Design** 

**Operating temperature** 320F to 950F (00to 350C) **Non-operating (storage)** -40F to 1850F (-20oto 850C)

temperature

**Altitude** 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL62368-1

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), NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE,

**UKCA DoC** 

HP 280W Standard 4.5 mm Right Angle Smart (3-pin) AC Power Adapter Bowser+

**Dimensions** 7.087 x 3.465 x 1.0 in (18.0x8.8x2.54cm)

**Weight** 730g(+/-10g) (Not including power cord. Power cord varies by

country.)



#### Technical Specifications – Power

Input Voltage 100-240Vac

**Input Efficiency** 89 % at 115Vac/230Vac

**Input frequency range** 47-63 Hz

Input AC current Max. 4.0 A at 90 Vac

**Output** 

Output power280WDC output20.0V

**Hold-up time** 100% load 10ms at 115 Vac input

Output Over Current < 28.0A

**Protection** 

**Connector** C14

**Connector** 4.5mm Barrel Type

**Environmental Design** 

**Operating temperature** 320F to 950F (00to 350C) **Non-operating (storage)** -40F to 1850F (-20oto 850C)

temperature

**Altitude** 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and

IEC62368-1:2018, EN62368-1:2020+A11, UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark,

Australia RCM, BIS, BSMI, UAE, UKCA DoC

HP 330W Standard 4.5 mm PFC Straight Smart (3-pin) AC Power Adapter Luigi

**Dimensions** 7.87 x 3.54 x 1.0 in (20.0x9.0x2.54cm)

Weight 770g(+/-10g) max (Not including power cord. Power cord varies by

country.)

Input Voltage 100-240Vac

**Input Efficiency** 89 % at 115Vac/230Vac

**Input frequency range** 47-63 Hz

**Input AC current** Max. 4.2 A at 90 Vac

Output330WOutput power20.0V

DC output

**Hold-up time** 100% load 10ms at 115 Vac input

Output Over Current < 25.0A

**Protection** 

Connector C14



### Technical Specifications - Power

**Connector** 4.5mm Barrel Type

**Environmental Design** 

**Operating temperature** 320F to 950F (00to 350C) **Non-operating (storage)** -40F to 1850F (-20oto 850C)

temperature

Non-operating (storage)

temperature

**Altitude** 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and

IEC62368-1:2018, EN62368-1:2020+A11, UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark,

Australia RCM, BIS, BSMI, UAE, UKCA DoC

GE 99Whr Long Life Polymer Fast Charge 8 cell Battery

Weight 0.41kg +/- 10g(0.90 lb)

**Cells/Type** 8 cell Lithium-Ion Polymer cell /574269

Energy

Voltage 15.56V Amp-hour capacity 6.37Ah Watt-hour capacity 99.1Wh

**Temperature** 

Operating (Charging)

0° to 45° C (32° to 113° F)

Operating (Discharging)

-10° to 65° C (14° to 149° F)

Fuel Gauge LED

**Optional Travel Battery** 

**Available** 

Warranty



# HP ZBook Fury G1i 18 inch Mobile Workstation

### Technical Specifications – Audio

**AUDIO** 

**HD Stereo Codec** Realtek ALC3315

Audio I/O PortsSupport 3.5mm Headset : CTIA only and Headphone-outInternal Speaker AmplifierTexas Instruments digital input Class-D smart audio amplifiers

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

independent audio. Following MSFT Behaviour

**Sampling** DAC:48kHz 16bits~24bits

ADC:44.1k~48kHz 16bits~24bits

Analog Audio Support 3.5mm Headset: CTIA only and Headphone-out

**Internal Speaker** Yes



### Technical Specifications – Fingerprint Reader

#### FINGERPRINT READER

**Sensor vendor** Synaptics FS7614

Sensor type Capacitive DPI resolution 363 DPI

Scan area 104 x 86 pixels

False Rejection Rate <3%
False Acceptance Rate <0.001%
Mobile Voltage Operation 3.0V to 3.6V
Operating Temperature 0°~60°C
Current Consumption Image 100mA max
Low Latency Wait For Finger 260uA

**Capture Rate** Image transmitter output frequency 9.6MHz

**ESD Resistance** IEC 61000-4-2 4B (+15KV) **Detection Matrix** 363 dpi / 7.4x6mm sensor area

**Footnotes** 



### Technical Specifications – Environmental

#### **ENVIRONMENTAL DATA**

#### **Eco-Label Certifications &** declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- **US ENERGY STAR®**
- US Federal Energy Management Program (FEMP)
- EPEAT<sup>[]</sup> Gold registered in the United States. See http://www.epeat.net for registration status in your country.
- TCO Certified
- China Energy Conservation Program (CECP)
- China State Environmental Protection Administration (SEPA)
- Taiwan Green Mark
- Korea Eco-label
- Japan PC Green label\*
- **Product Carbon Footprint**
- At least 30% ocean bound plastic in the speaker<sup>1</sup>
- At least 30% post-consumer recycled plastic<sup>2</sup>
- At least 85% recycled metal3
- Low Halogen<sup>4</sup>
- 100% of HP paper-based packaging is from recycled or certified sustainable sources<sup>5</sup>
- Bulk packaging available

#### **System Configuration**

Sustainable Impact

**Specifications** 

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".

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

STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	8.01 W	7.84 W	8.16 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	1.79 W	1.82 W	1.87 W
Off	0.40 W	0.40 W	0.39 W

#### **NOTE:**

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

**Heat Dissipation\*** 115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz



Technical Specifications – Environmental			
Normal Operation (Short idle)	27 BTU/hr	27 BTU/hr	28 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	6.1 BTU/hr	6 BTU/hr	6.4 BTU/hr
Off	1.4 BTU/hr	1 BTU/hr	1.3 BTU/hr

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

Declared Noise Emissions	Sound Power	Sound Pressure
(in accordance with	(L <sub>wad</sub> , bels)	(L <sub>pAm</sub> , decibels)
ISO 7779 and ISO 9296)		
Typically Configured – Idle	2.6	14.6
Fixed Disk – Random writes	3.5	24.0
Optical Drive – Sequential reads	5.0	35.8

#### **Longevity and Upgrading**

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

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

#### **Additional Information**

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive -2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product is 98.3% recycle-able when properly disposed of at end of life.

Packaging Materials	External:	PAPER/Corrugated	39 g	
		PAPER/Molded Pulp	240 g	
		PAPER/Paper	31 g	

The plastic packaging material contains at least 0.0% recycled content.

The corrugated paper packaging materials contains at least 57.9% recycled content.

**RoHS Compliance**HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our



#### Technical Specifications – Environmental

products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.

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

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

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

#### **Material Usage**

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at

https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Bis(2-Ethylhexyl) phthalate (DEHP)
- Benzyl butyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)



## HP ZBook Fury G1i 18 inch Mobile Workstation

#### Technical Specifications – Environmental

#### **Packaging Usage**

HP follows these guidelines to decrease the environmental impact of product packaging:

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

### End-of-life Management and Recycling

HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to:

https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198 or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: HP Product Disassembly Instruction Website. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### **HP Inc. Corporate Environmental** For more information about HP's commitment to the environment: **Information**

- Sustainable Impact Report
  - https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843
- Eco-label certifications
  - https://www.hp.com/us-en/sustainable-impact/documentreports.html#filters\_documents\_reports-=document\_typetype\_energy\_star,type\_epeat,type\_tcolS0
- ISO 14001 certificates
  - https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932

#### **Footnotes**

- 1. Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.
- 2. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.
- 3. Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
- 4. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
- 5. HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box.



# HP ZBook Fury G1i 18 inch Mobile Workstation

Technical Specifications – Environmental

Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from >90% recycled plastic.



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

Туре	Description	Part#
Docking	HP Thunderbolt 280W G4 Dock w/Combo Cable	4J0G4AA
	HP Thunderbolt 280W G4 Dock w/Combo Cable	4J0G4ET
	HP Thunderbolt 280W TAA G4 Dock w/Combo Cable	4J0J9AA
Input/Output	HP USB-C to USB-C 100W Cable	5AR72AA
Keyboard/Mouse		0500744
neyboai u/ riouse	HP 320K Wired Keyboard	9SR37AA
	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 455 Programmable USB Wireless Keyboard (Bulk Qty.12)	4R177A6
	HP 965 BLK Ergonomic Wireless Keyboard	7E756AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9UT
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1UT
	HP 435 Programmable Bluetooth Wireless Keypad	7N7C3AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 655 Wireless Keyboard and Mouse Combo (Blk Qty.10)	4R009A6
	HP Wired 320M Mouse	9VA80AA
	HP Multi-Device 635 Black Wireless Mouse	1D0K2AA
	HP Creator 935 Black Wireless Mouse	1D0K8AA
	HP 235 Slim Wireless Mouse	4E407AA
	HP 235 Slim Wireless Mouse	4E407UT
	HP 435 Multi-Device Wireless Mouse	3B4Q5UT
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP 695 Qi-Charging Wireless Mouse	8F1Y4AA
		J



Options and Acce	essories (sold separately and availability may vary by country)	
	HP Tilt Ergonomic Mouse 725M	BH0Z5AA
Hub	HP USB-C to USB-A Hub	Z6A00AA
	HP Portable USB-C Hub	B8SU8UT
	HP Portable USB-C Hub	B8SV8AA
Audio	HP USB G2 Stereo Headset	428H5AA
	HP USB G2 Stereo Headset	428K6AA
	HP USB G2 Stereo Headset	428K6PT
Power	HP 330W Smart AC Adapter	BF7A6AA
	HP 330W Smart AC Adapter	BF7C7AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP Sure Key Cable Lock	6UW42AA
	HP Nano Combination Cable Lock	63B28AA
	HP Essential Nano Combination Cable Lock	63B31AA



Date of change	Version History		Description of change
June 2, 2025	From v1 to v2	Changed	Format
June 9, 2025	From v2 to v3	Changed	ENVIRONMENTAL DATA section

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