

HP ZBook G4

Mobile Workstations

WS/TC GBU, 2017

Product Marketing



AGENDA

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The details



HP ZBook G4 Family

The insights



Let's get started

Trends

LONGEVITY

Designed for a five year life.

DESIGN

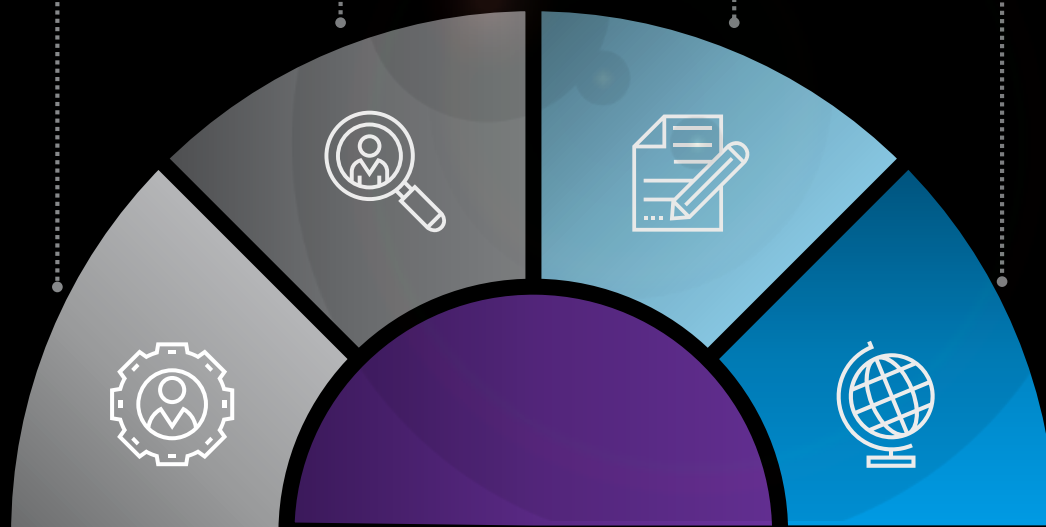
Thin & light, with all of the power you'd expect.

QUALITY

The best in the history of HP Workstations.

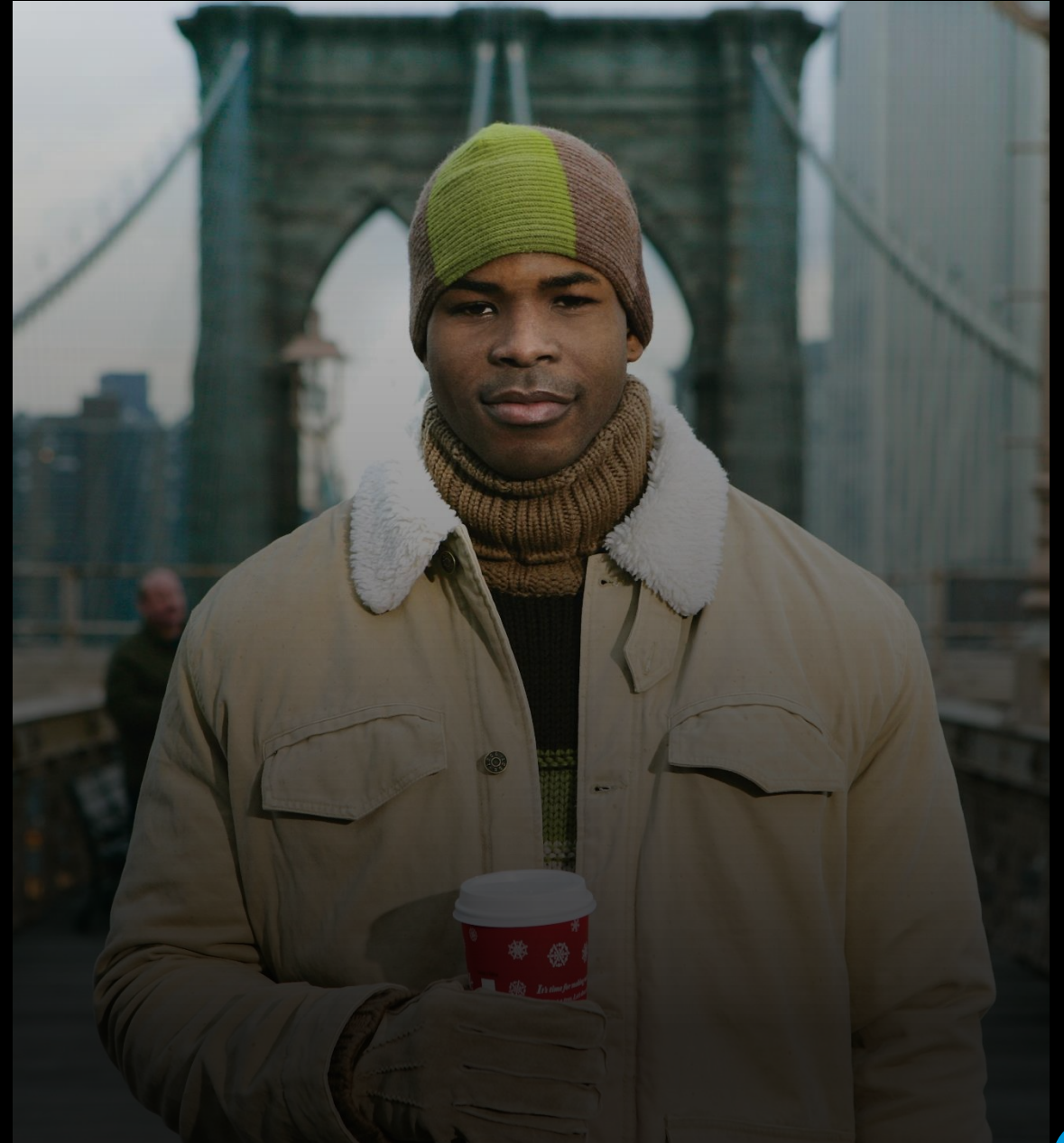
SECURE

The world's most secure mobile workstations.



High performance,
secure mobility allows
me to work seamlessly
between the office, and
my home office.

*Did you know nearly half of US workers, work in
both an office and a home office?*



HP ZBook G4 Family

The solution





CONFIGURE THE WORKSTATION THAT'S RIGHT FOR YOU



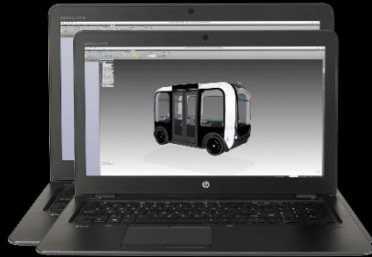
HP ZBOOK G4 FAMILY



CONFIGURE THE WORKSTATION THAT FITS YOUR WORK STYLE

HP MOBILE WORKSTATION FAMILY

THIN/VALUE



Thin, powerful, affordable

HP ZBook 14u
HP ZBook 15u

NO COMPROMISE



Looks stunning, works wonders

HP ZBook Studio

FULL PERFORMANCE/ EXPANDABILITY



Portable powerhouse

HP ZBook 15



Ultimate in mobile performance

HP ZBook 17





HP ZBook 14u/15u G4

Thin & light value performance



Longer life

51 Whr battery + HP Fast Charge



Encrypted

Secure PCIe NVMe SEDs



HP SureStart Gen3

BIOS-level protection



HP ZBook 14u G4 details

Streamlined



Meet the HP ZBook 14u G4

HP's next generation workstation Ultrabook™



Power to perform



- 7th generation Intel® processors
- AMD FirePro™ W4190M (2 GB) professional graphics

Innovative, sleek design



- Ultra-slim 22.1 mm Ultrabook™ form factor
- 51Whr Battery with Long battery life (3 year warranty)
- HP Fast Charge Support (0 to 50% charged capacity in only 30 minutes)
- UHD IPS panel; optional FHD touch display

I/O ports



- USB 3.1 Gen 1
- Two USB 3.0 (one charging)
- DisplayPort™ 1.2

Expandability



- Up to 32 GB of standard memory
- Up to 2 TB of storage
- HP Z Turbo Drive G2 (NVMe PCIe SED SSD)

Reliability



- ISV certification
- HP Remote Graphics Software (HP RGS) / HP Performance Advisor
- Passes MIL-STD-810G testing
- HP SureStart Gen3



HP ZBook 14u G4: features and benefits

Work confidently with a long life, fast charging battery and extensive reliability testing

Feature

Benefit

Innovative design

Sleek and stylish workstation Ultrabook™ now in a 14.0" diagonal form factor

Professional 3D graphics

Provides high-end graphics processing and rendering

ISV certifications

Tested hardware proven to run demanding applications

7th gen Intel® Core™ i5 and i7 dual-core processors

Next generation processors provide the latest performance

Battery performance

Large battery with HP Fast Charge (0 to 50% charged capacity in 30 min)

HP Performance Advisor and HP RGS

Software designed to enhance workstation performance

Reliability

Designed to undergo MIL-STD-810G testing

Touchscreen display option

Intuitive 10-point multi-touch full HD screen option

Common docking

Use legacy docking stations purchased with previous generation

HP Z Turbo Drive G2

PCIe NVMe SSDs that are even faster than last generation's HP Z Turbo Drive

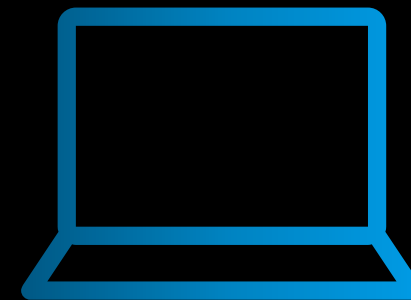
Large memory configurations

Increases the overall performance of demanding applications



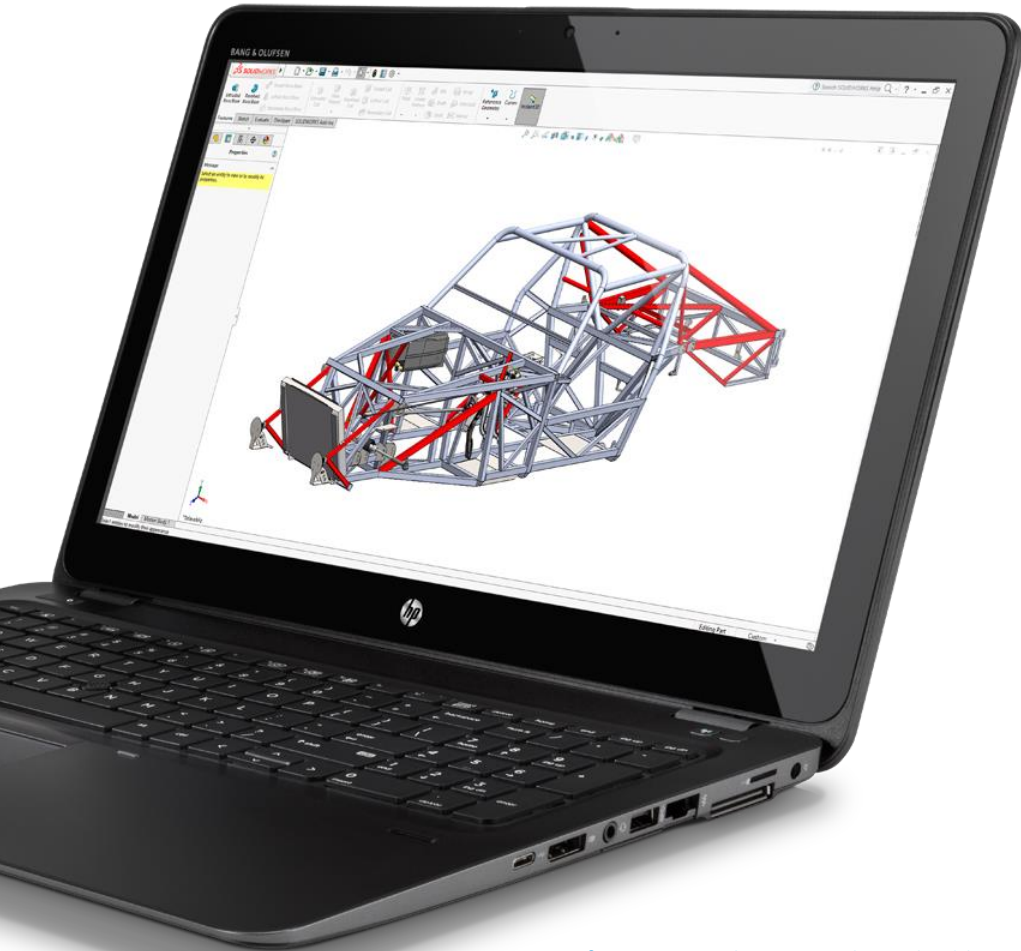
HP ZBook 15u G4 details

Road warrior



Meet the HP ZBook 15u G4

HP's next generation workstation Ultrabook™



New features over last gen indicated in blue

Power to perform



- 7th generation Intel® processors
- AMD FirePro™ W4190M (2 GB) professional graphics

Innovative, sleek design



- Ultra-slim 19.9 mm Ultrabook™ form factor
- 51Whr Battery with Long battery life (3 year warranty)
- HP Fast Charge Support (0 to 50% charged capacity in only 30 minutes)
- UHD IPS panel; optional FHD touch display
- Separate numeric keypad

Reliability



- ISV certification
- HP Remote Graphics Software (HP RGS) / HP Performance Advisor
- Passes MIL-STD-810G testing
- HP SureStart Gen3

I/O ports



- USB 3.1 Gen 1
- Two USB 3.0 (one charging)
- DisplayPort™ 1.2

Expandability



- Up to 32 GB of standard memory
- Up to 2 TB of storage
- HP Z Turbo Drive G2 (NVMe PCIe SED SSD)⁴; more configurable options



HP ZBook 15u G4: features and benefits

Work confidently with a long life, fast charging battery and extensive reliability testing

Feature

Benefit

Innovative design

Sleek and stylish workstation Ultrabook™ form factor

Professional 3D graphics

Provides high-end graphics processing and rendering

ISV certifications

Tested hardware proven to run demanding applications

7th gen Intel® processors

Next generation processors provide the latest performance

Battery performance

Large battery with HP Fast Charge (0 to 50% charged capacity in 30 min)

HP Performance Advisor and HP RGS

Software designed to enhance workstation performance

Reliability

Passed MIL-STD-810G testing

Touchscreen display option

Intuitive 10-point multi-touch full HD screen option

Common docking

Use legacy docking stations purchased with previous generation

HP Z Turbo Drive G2

PCIe NVMe SSDs that are even faster than last gen's ACHI-based HP Z Turbo Drive

Large memory configurations

Increases the overall performance of demanding applications





HP ZBook Studio G4

Performs in style



Built to last

92 Whr battery + HP Fast Charge



HP DreamColor

Award-winning color critical display



Intel™

7th generation processing

Meet the HP ZBook Studio G4



Power to perform



- 7th generation Intel® Core™ and Xeon® processors
- Intel HD Graphics 630 available as standalone configurable graphics
- NVIDIA® Quadro® M1200 with 4 GB dedicated GDDR5 memory

Innovative, sleek design



- CNC machined out of premium lightweight aluminum
- Ultra-thin 18 mm design (2,0 kg)
- Up to FHD Touch UWVA and UHD DreamColor screen options

Reliability



- ISV certification
- HP Remote Graphics Software (HP RGS) / HP Performance Advisor
- Passes MIL-STD-810G testing
- HP SureStart Gen3

I/O ports



- (2) Thunderbolt™ 3 (supporting DP 1.2, USB 3.1 Gen 2, PCIe) on the new USB-C connector
- HDMI
- Three USB 3.0 (one charging)

Expandability



- Optional larger 92Whr Battery with longer battery life (3 year warranty)
- HP Fast Charge Support (0 to 50% charged capacity in only 30 minutes)
- Up to 32 GB of standard or ECC 2400 MHz memory
- Up to 2 TB of storage
- HP Z Turbo Drive G2



HP ZBook Studio G4: features and benefits

Feature

Benefit

Premium innovative design

Aluminum and magnesium offer high durability with minimum weight

Professional 3D graphics

Provides high-end graphics processing and rendering

ISV certifications

Tested hardware proven to run demanding applications

7th gen Intel® Core™ or Xeon® processors

Next generation processors provide higher performance than last gen

Dual Thunderbolt™ 3 ports

Incredibly fast connectivity; 8 times the speed of USB 3.0

HP Performance Advisor and HP RGS

Software designed to enhance workstation performance

Reliability

Passes MIL-STD-810G testing

HP DreamColor Display

Color-critical display now in stunning 4K resolution

HP ZBook Dock with Thunderbolt 3

Highest performance docking solution with the HP ZBook Dock with Thunderbolt 3 dock

HP Z Turbo Drive G2

PCIe NVMe SSDs that are even faster than last gen's Z Turbo Drive

Battery performance

Large battery with HP Fast Charge (0 to 50% charged capacity in 30 min)





HP ZBook 15 G4

The decathlete



Sleep easy
HP SureStart Gen3 BIOS security



2400 MHz memory
Elevate your multi-tasking

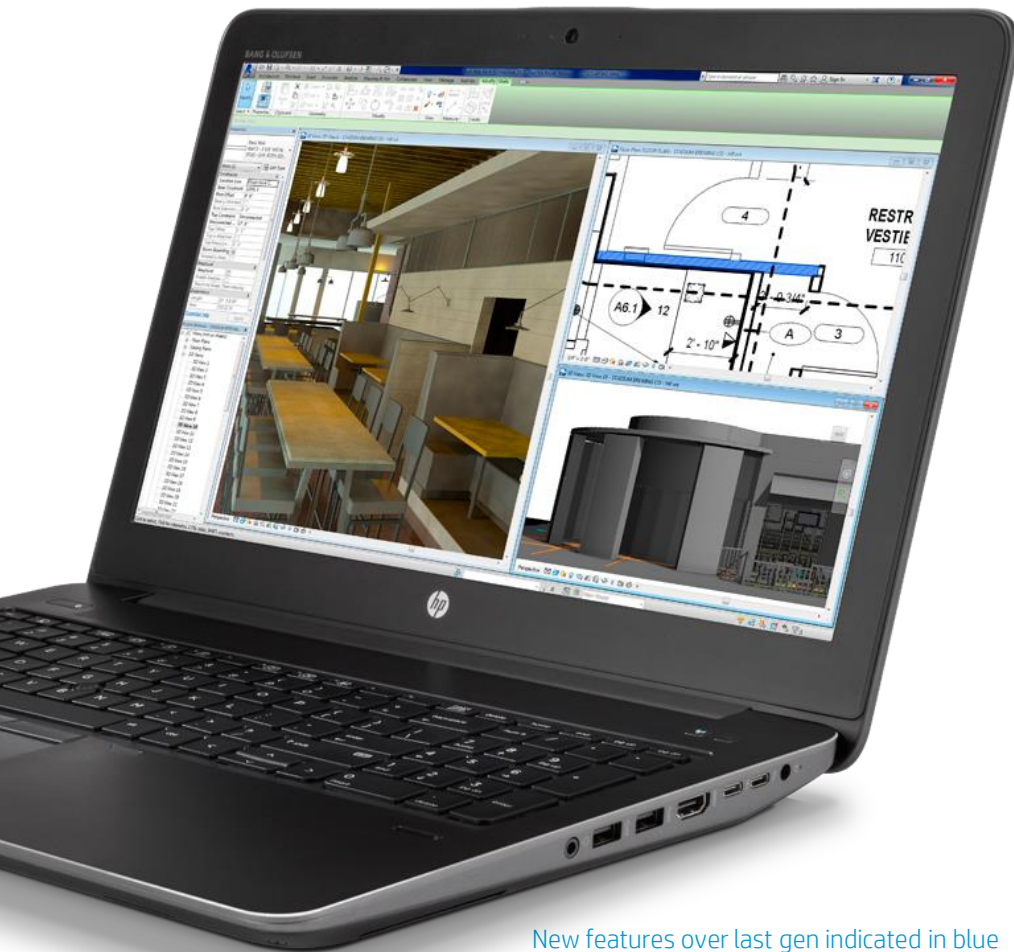


NVIDIA GC6
Now supported!



Meet the HP ZBook 15 G4

HP's portable high performance mobile workstation



New features over last gen indicated in blue

Power to perform



- 7th generation Intel® Core™ and Xeon® processors
- Refreshed NVIDIA® Quadro® and AMD Radeon™ Pro graphics
- Intel integrated graphics option

Innovative, sleek design



- 26mm thin and only 2,6 kg
- Up to FHD Touch UWVA and UHD DreamColor screen options

Reliability



- ISV certification
- HP Remote Graphics Software (HP RGS) / HP Performance Advisor
- Passes MIL-STD-810G testing
- HP SureStart Gen3

I/O ports



- (2) Thunderbolt™ 3 (supporting DP 1.2, USB 3.1 Gen 2, PCIe) on the USB-C connector
- HDMI, VGA
- Three USB 3.0 (one charging)
- Smart Card reader, SD Card reader

Expandability



- Up to 64 GB of standard or ECC 2400 MHz memory
- HP Fast Charge Support (0 to 50% charged capacity in only 30 minutes)
- Up to 3 TB of storage
- Multiple HP Z Turbo Drive G2 (NVMe PCIe SSD)



HP ZBook 15 G4: features and benefits

Feature

Benefit

Professional 3D graphics

Provides high-end graphics processing and rendering

ISV certifications

Tested hardware proven to run demanding applications

7th gen Intel® Core™ or Xeon® processors

Next generation processors provide higher performance than ever before

Dual Thunderbolt™ 3 ports

Incredibly fast connectivity; 8 times the speed of USB 3.0 at 40 GB/s

HP Performance Advisor and HP RGS

Software designed to enhance workstation performance

Reliability

Passes MIL-STD-810G testing and more

HP DreamColor display

Color-critical display now in stunning 4K resolution

HP ZBook Dock with Thunderbolt 3

Maximum expandability and connectivity in a docking station

HP Z Turbo Drive G2

PCIe NVMe SSDs that are even faster than last gen's HP Z Turbo Drive

Large memory configurations

64 GB of RAM increases the performance of demanding applications

Multiple hard drives

Up to 3 TB¹¹ w/ RAID configuration support, hardware encryption, and SSD





HP ZBook 17 G4

HP VR Ready



Tool-less access

For battery & HDD



MULTI-TASK

Up to 64 GB of ECC or non-ECC memory



NVIDIA Pascal

VR ready



Meet the HP ZBook 17 G4

HP's most powerful and configurable high performance mobile workstation



New features over last gen indicated in blue

Power to perform



- 7th generation Intel® Core™ and Xeon® processors
- Refreshed NVIDIA® Quadro® and AMD Radeon™ Pro graphics
- HP VR Ready graphics options
- Intel integrated graphics option

Innovative, sleek design



- 33mm thin and only 3.1 kg
- Up to FHD Touch UWVA and UHD DreamColor screen options
- Quick remove panel for tool less battery and HDD access

Reliability



- ISV certification
- HP Remote Graphics Software (HP RGS) / HP Performance Advisor
- Passes MIL-STD-810G testing
- HP SureStart Gen3

I/O ports



- (2) Thunderbolt™ 3 (supporting DP 1.2, USB 3.1 Gen 2, PCIe) on the USB-C connector
- HDMI, VGA
- Four USB 3.0 (one charging)
- Smart Card reader, SD Card reader

Expandability



- Up to 64 GB of standard or ECC 2400 MHz memory
- HP Fast Charge Support (0 to 50% charged capacity in only 30 minutes)
- Up to 4 TB of storage
- Multiple HP Z Turbo Drive G2 (NVMe PCIe SSD)



HP ZBook 17 G4: features and benefits

Feature

Benefit

Professional 3D graphics

Provides high-end graphics processing and rendering

ISV certifications

Tested hardware proven to run demanding applications

7th gen Intel® Core™ or Xeon® processors

Next generation processors provide higher performance than ever before

Dual Thunderbolt™ 3 ports

Incredibly fast connectivity; 8 times the speed of USB 3.0 at 40 GB/s

HP Performance Advisor and HP RGS

Software designed to enhance workstation performance

Reliability

Passes MIL-STD-810G testing and more

HP DreamColor display

Color-critical display now in stunning 4K resolution

HP ZBook Dock with Thunderbolt 3

Highest performance docking solution available from HP

HP Z Turbo Drive G2

PCIe NVMe SSDs that are even faster than last gen's HP Z Turbo Drive

Large memory configurations

64 GB of RAM increases the performance of demanding applications

Multiple hard drives

Up to 4 TB¹¹ w/ RAID configuration support, hardware encryption, and SSD





It's all in the family

What's new for G4

- ✓ HP DreamColor display option on the HP ZBook Studio, 15, and 17
- ✓ HP SureStart Gen3, fingerprint readers, & PCIe NVMe SEDs all work across the family to protect users
- ✓ HP Fast Charge is 50% battery life in 30 minutes... and now available on all HP ZBooks
- ✓ 7th generation Intel processing
- ✓ NVIDIA GPU updates, including HP VR Ready graphics on the HP ZBook 17 G4



HP ZBook G4 Family

Family values



AWARD WINNING
VISUAL CLARITY



HP DREAMCOLOR

4K RESOLUTION
AMAZING COLOR
MATTE SCREEN





STATE-OF-THE-ART AUDIO QUALITY

M A K E W A V E S

AUDIO BY BANG & OLUFSEN
EXPERIENCE BY HP





DIAMOND CUT

B R I L L I A N C E



4K DISPLAY OPTION

CNC-MACHINED ALUMINUM

BACKLIT KEYBOARDS




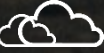

PREMIUM INDUSTRIAL DESIGN





BUILT FOR THE WORLD'S MOST PUNISHING ENVIRONMENTS

MIL-STD 810G

Drops  Vibration  Temperature  Dust 
...+10 more 

HP SECURITY LEADERSHIP



HP Sure Start Gen3 BIOS Protection
HP Multi-Factor Authenticate for identity
HP Manageability Integration Kit
HP WorkWise mobile security solution
Physical security
HP RGS

THE WORLD'S MOST **SECURE** & **MANAGEABLE** MOBILE WORKSTATIONS



HP ZBOOK MOBILE WORKSTATIONS G4 WITH INTEL® 7TH GENERATION PROCESSORS





WORLD'S MOST SECURE MOBILE WORKSTATIONS WITH

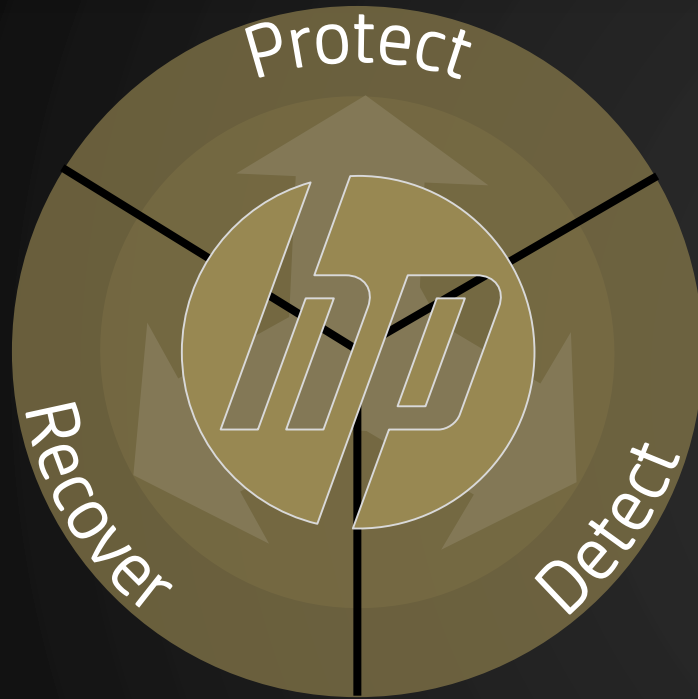
HP SURESTART Gen3



- ✓ Above the OS
- ✓ In the OS
- ✓ Below the OS



INDUSTRY'S FIRST and ONLY SELF-HEALING BIOS WITH RUN-TIME INTRUSION DETECTION



HP SURE START GEN3

Runtime Intrusion Detection
detects BIOS attacks in runtime memory (SMM) while OS is running & restores BIOS to custom state

BIOS Configuration & Policy Protection
protects & restores BIOS setup variables, policies & data

Microsoft SCCM Integration
manages HP Sure Start setup & monitors through HP MIK plug-in



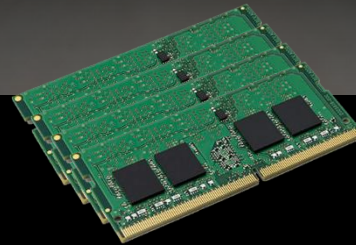
SERVER GRADE HARDWARE

TO GO



Tested for a higher number of cycles

INTEL® XEON®
PROCESSORS



Improved multi-tasking with

UP TO 64 GB OF
ECC MEMORY



Be a local with

DUAL 1 TB
HP Z TURBO DRIVES



THINNER, LIGHTER, EASIER TO MANAGE

HP ZBOOK SLEEK 150W POWER ADAPTER

- ✓ 37% SMALLER
- ✓ 50% LIGHTER
- ✓ Better Cable Management
- ✓ Thinner DC Cable
- ✓ More manageable AC Cable



HP ZBook G4 Family

The details



ZBook G3 to G4 processor transition

Get powerful performance from new 7th Gen Intel® Core™ Processors

2016

Intel 6th gen
Chipset integrated with processor

Xeon E3-1575M v5 – 2.90G (3.80G)/4C/8M/2133/45W

Xeon E3-1535M v5 – 2.80G (3.70G)/4C/8M/2133/45W

i7-6820HQ – 2.70G (3.60G)/4C/8M/2133/45W

i7-6700HQ – 2.60G (3.50G)/4C/6M/2133/45W

i5-6440HQ – 2.60G (3.50G)/4C/6M/2133/45W

i5-6300HQ – 2.30G (3.20G)/4C/6M/2133/45W

Highlighted in Purple – only available with discrete graphics

2017

Intel 7th gen
Chipset integrated with processor

Xeon E3-1535M v6 – 3.10G (4.20G)/4C/8M/2400/45W

Xeon E3-1505M v6 – 3.00G (4.00G)/4C/8M/2400/45W

i7-7820HQ – 2.90G (3.90G)/4C/8M/2400/45W

i7-7700HQ – 2.80G (3.80G)/4C/6M/2400/45W

i5-7440HQ – 2.80G (3.80G)/4C/6M/2400/45W

i5-7300HQ – 2.50G (3.50G)/4C/6M/2400/45W

Quad-core
vPRO™ and
non-vPro options

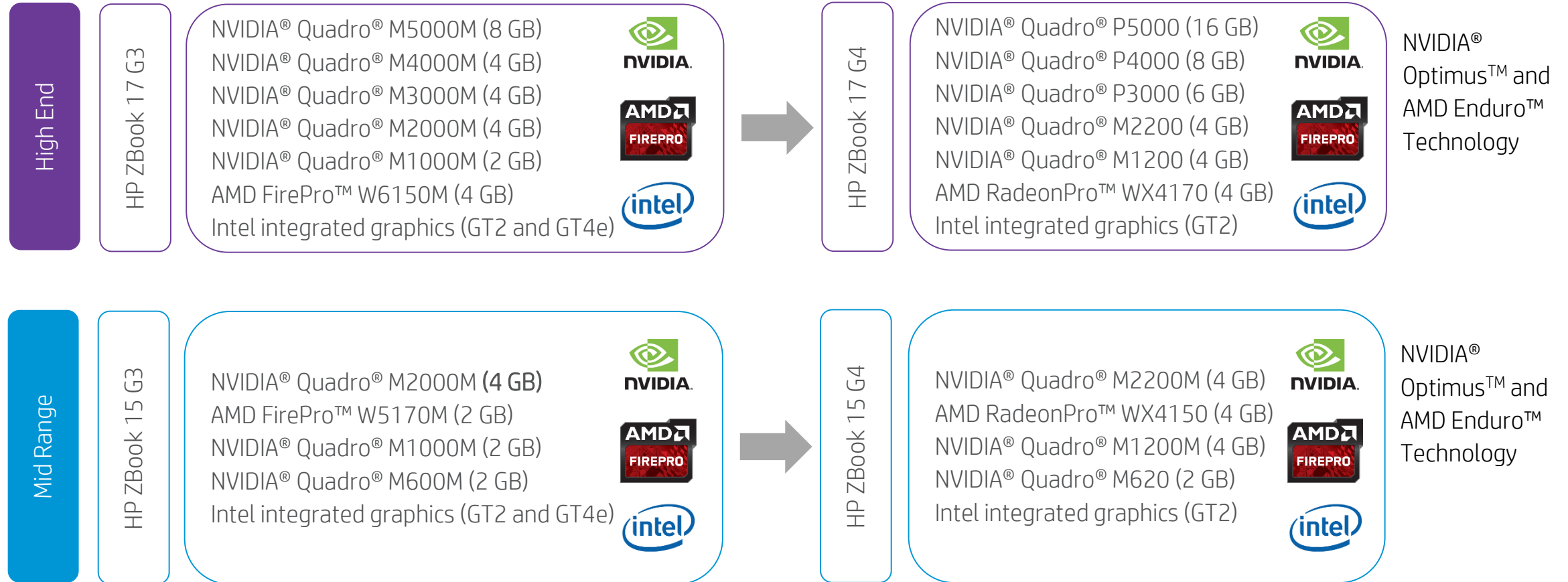


Graphics transitions

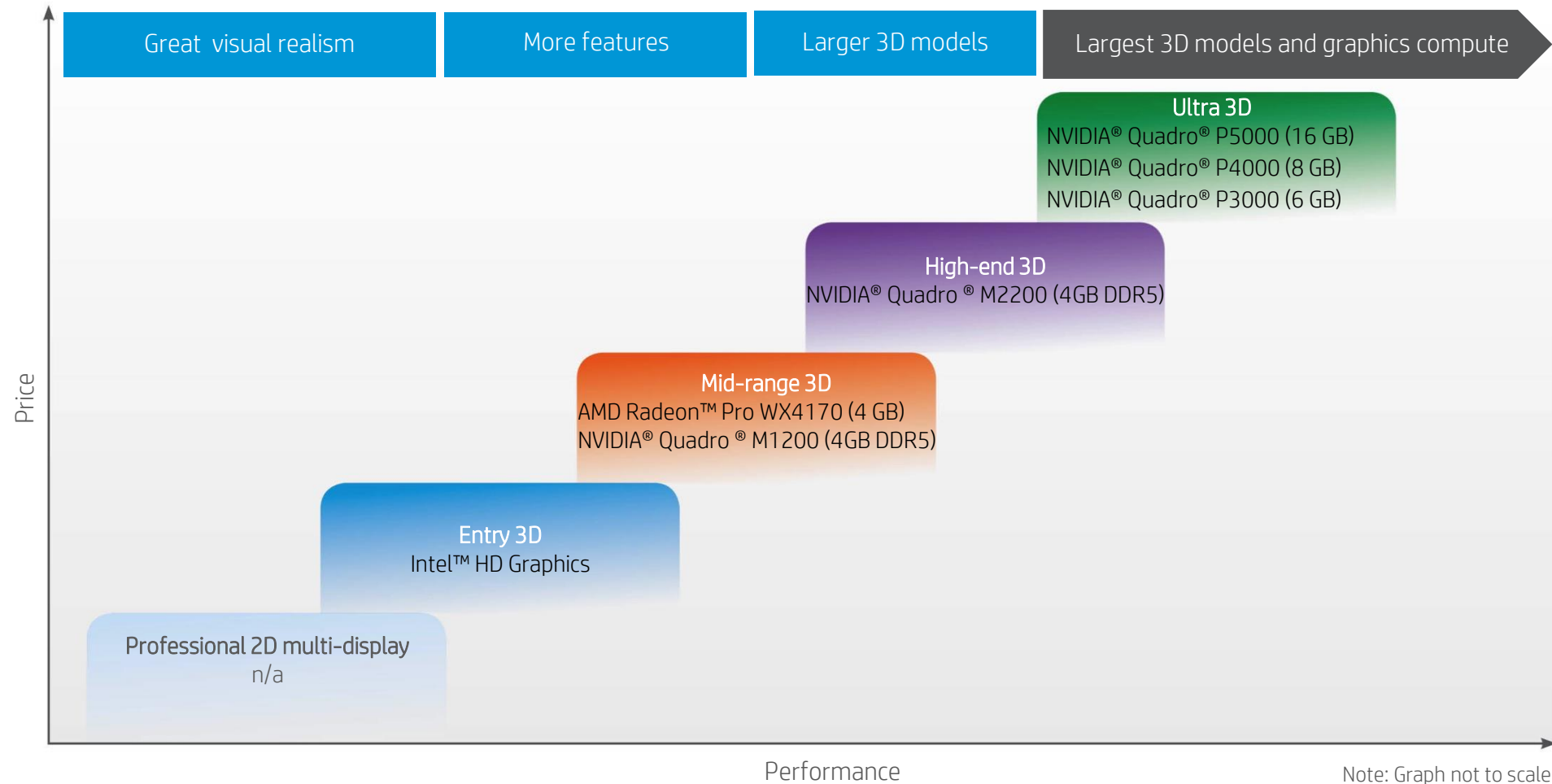
Featuring NVIDIA, AMD, and Intel Integrated Graphics

2016

2017



HP ZBook professional graphics range



HP ZBook storage offerings

Increase performance with the optional HP Z Turbo Drive G2

		HP ZBook 14u G4	HP ZBook 15u G4	HP ZBook Studio G4	HP ZBook 15 G4	HP ZBook 17 G4
Storage bays		Choose up to 2: (1) 2.5" 7 mm storage bay (1) M.2	Choose up to 2: (1) 2.5" 7 mm storage bay (1) M.2	Choose up to 2: (2) M.2	Choose up to 3: (1) 2.5" 7 mm storage bays (2) M.2	Choose up to 4: (2) 2.5" 9 mm storage bays (2) M.2
Max storage		Up to 2 TB	Up to 2 TB	Up to 2 TB	Up to 3 TB	Up to 4 TB
M.2 storage bays (can also be selected as primary and only drive)	HP Z Turbo Drive G2 (NVMe PCIe SSD)	256 GB TLC 256 GB MLC 512 GB SED TLC 512 GB MLC 1 TB MLC	256 GB TLC 256 GB MLC 512 GB SED TLC 512 GB MLC 1 TB MLC	256 GB TLC 256 GB MLC 512 GB SED TLC 1TB MLC	256 GB TLC 256 GB MLC 512 GB SED TLC 1TB MLC	256 GB TLC 256 GB MLC 512 GB SED TLC 1TB MLC
	SATA SSD	256 GB SED 512 GB SED FIPS	256 GB SED 512 GB SED FIPS	128 GB SSD 256 GB SED	256 GB SED	256 GB SED
2.5" storage bays	SATA 2.5" HDD	500 GB 7200 SED 500 GB 7200 500 GB 7200 SED FIPS 1 TB 5400 500 GB Hybrid (8 GB)	500 GB 7200 SED 500 GB 7200 500 GB 7200 SED FIPS 1 TB 5400 500 GB Hybrid (8 GB)		500 GB 7200 SED 500 GB 7200 500 GB 7200 SED FIPS 1 TB 5400 500 GB Hybrid (8 GB)	500 GB 7200 SED 500 GB 7200 500 GB 7200 SED FIPS 1 TB 7200 500 GB Hybrid (8 GB)
	SATA 2.5" SSD				256 GB 1 TB	256 GB 1 TB



HP ZBook docking compatibility

Connect quickly without the wires

	HP ZBook 14u & 15u	HP ZBook Studio	HP ZBook 15	HP ZBook 17
Full featured docking stations				
HP 2013 UltraSlim Docking Station	●			
HP ZBook Dock with Thunderbolt 3 (150W)		●	●	
HP ZBook Dock with Thunderbolt 3 (200W)		●	●	●
Port replicators (no power)				
HP USB-C Travel Dock	●	●	●	●
HP USB Travel Dock	●	●	●	●
HP Elite USB-C Dock	●	●	●	●



HP DreamColor on the HP ZBook Studio, 15, and 17

Accurate color powered by the Award-winning HP DreamColor technology

Expanded HP DreamColor HP ZBook portfolio

Super high resolution

Experience millions of calibrated colors

User color calibration

Exceptional color

Longer battery life w/ Increased brightness

- 17.3" diagonal (HP ZBook 17) and 15.6" diagonal (HP ZBook 15 and HP ZBook Studio)
- UHD 4K IPS panels for crisp images and 4K video workflow
- Consistent color accuracy right out of the box
- Calibration software ensures accurate colors at all times.
- 100% coverage of Adobe® RGB and sRGB color gamuts
- UHD panel consumes less power than HP ZBook G2 DreamColor








HP ZBook Mobile Workstations MIL-STD 810G testing

		HP ZBook	HP EliteBook		HP ProBook	
		Mobile Workstations	1000 series	800 /705 series	600 series	400 series
1	Drop	✓	✓	✓	✓	✓
2	Functional Shock	✓	✓	✓	✓	✓
3	Vibration	✓	✓	✓	✓	✓
4	Dust	✓	✓	✓	✓	✓
5	Humidity	✓	✓	✓	✓	✓
6	Altitude	✓	✓	✓	✓	✓
7	High Temperature	✓	✓	✓	✓	✓
8	Low Temperature	✓	✓	✓	✓	✓
9	Temperature Shock	✓	✓	✓	✓	✓
10	Sand	✓	✓	✓	-	-
11	Explosive Atmosphere	✓	✓	✓	-	-
12	Freeze/Thaw	✓	✓	✓	-	-
13	Bench Handling Shock	✓	-	-	-	-
14	Crash Hazard Shock	✓	-	-	-	-

HP ZBook G4 vertical positioning

● Good ● Ideal

	Media & Entertainment	Product Development	AEC	Geospatial/O&G/Mining	Government	Education	Power Users/Road Warriors
HP ZBook 14u 	●	●	●	●	●	●	●
HP ZBook 15u 	●	●	●	●	●	●	●
HP ZBook Studio 	●	●	●	●	●	●	●
HP ZBook 15 	●	●	●	●	●	●	●
HP ZBook 17* 	●	●	●	●	●	●	●

*HP ZBook 17 G4 is the only HP Mobile Workstation that is VR ready when configured with NVIDIA® Quadro® P5000 graphics



HP ZBook 14u G4 at-a-glance (1 of 2)

Form factor	Processor	Graphics	Display	Memory
<ul style="list-style-type: none">• One-spindle full performance design• Magnesium frame/aluminum insert, mag bottom case• 22.1 x 338 x 237 mm (h x w x d)• 0.87 x 13.3 x 9.3 in (h x w x d)• Starting at 3.61 lbs / 1.64 kg	<ul style="list-style-type: none">• 7th Generation Intel® processors• Intel® Turbo Boost Technology 2.0 support• vPro™ Support (optional)	<ul style="list-style-type: none">• AMD FirePro™ W4190M (2 GB)• OpenGL support/ISV certifications• AMD Eyefinity for multi-monitor support• Support for AMD Enduro™ technology	<ul style="list-style-type: none">• 14.0-inch diagonal HD SVA/AG• 14.0-inch diagonal FHD SVA/AG• 14.0-inch diagonal Touch FHD SVA/AG• 15.6-inch diagonal UHD UWVA/AG	<ul style="list-style-type: none">• DDR4 - 2133• 2 SODIMM slots; up to 32 GB dual-channel memory (2 x 16 GB)• Standard memory with Intel® Core™ processors
Primary storage	Audio	Communications		Expansion slots
<ul style="list-style-type: none">• HP Z Turbo Drive G2 (M.2 NVMe PCIe SSD)<ul style="list-style-type: none">• 256 GB TLC• 256 GB MLC• 512 GB SED TLC• 512 GB MLC• 1 TB MLC• M.2 SATA SSD<ul style="list-style-type: none">• 256 GB SED• 512 GB SED FIPS• 2.5" SATA HDD<ul style="list-style-type: none">• 500 GB 7200 SED• 500 GB 7200• 500 GB 7200 SED FIPS• 1 TB 5400• 2.5" SATA SSHD<ul style="list-style-type: none">• 500 GB Hybrid (8 GB)• HP 3D DriveGuard (HDD)	<ul style="list-style-type: none">• Bang & Olufsen Audio• Integrated dual-microphone array; located in the display• 2 integrated stereo speakers	<ul style="list-style-type: none">• Ethernet: Integrated Intel® I219-LM Gigabit Network Connection, included with vPro processors; Integrated Intel® WGI219V Gigabit Network Connection, included with non-vPro processors• WLAN: Intel Dual band wireless-AC 8265 802.11AC 2x2 WiFi + BT 4.2 Combo Adapter (vPro); Intel Dual band wireless-AC 8265 802.11AC 2x2 WiFi + BT 4.2 Combo Adapter (non-vPro); Intel Dual band wireless-AC 3168 802.11AC 1x1 WiFi + BT 4.2 Combo Adaptor (non-vPro) NFC: Integrated NFC with antenna option• WWAN: HP It4120 LTE/EVDO/HSPA+ w/GPS M.2; HP It4132 - LTE/HSPA+ w/GPS M.2		<ul style="list-style-type: none">• SD media reader slot – support SD, SDHC, SDXC



HP ZBook 14u G4 at-a-glance (2 of 2)

Ports	Input devices/camera	Battery	Power	Security
<ul style="list-style-type: none">• (1) USB 3.1 Gen 1• (1) USB 3.0 charging• (1) USB 3.0• (1) RJ-45 (Ethernet)• (1) Displayport 1.2• (1) Headphone/microphone-in combo jack• (1) power connector	<ul style="list-style-type: none">• Full sized chiclet, island-style optional backlit keyboard• Spill resistant design with drain, DuraKey Coating• Dual pointing devices with 2 buttons• Image Sensor touchpad with chemically strengthened glass cover – touchpad On/Off control• 2 discrete buttons (WLAN On/Off, Vol Mute)• 720p HD Webcam (optional)• Support no camera with single microphone option	<ul style="list-style-type: none">• HP 3-cell 51 WHr Long Life battery with Fast Charge support (0 to 50% charged capacity in 30 minutes)	<ul style="list-style-type: none">• HP 65 W Smart AC Adapter	<ul style="list-style-type: none">• HP ProtectTools• TPM 2.0 module• Integrated Smart Card Reader• Optional fingerprint reader (Plug for CIS)• Security lock slot• Full Volume Encryption• HP SureStart Gen3

Operating systems	Key options	Warranty
<ul style="list-style-type: none">• Single image/lean• Preinstalled: Windows 10 Pro 64; Windows 10 Home High End 64; FreeDOS 2.0• Windows10 64-bit	<ul style="list-style-type: none">• 256 GB HP Z Turbo Drive G2 NVMe PCIe SSD• 512 GB HP Z Turbo Drive G2 NMVe PCIe SSD• 512 GB HP Z Turbo Drive G2 NVMe PCIe SED SSD• 1 TB HP Z Turbo Drive G2 NVMe PCIe SSD	<ul style="list-style-type: none">• Standard: Limited 3-year warranty; On-site service standard for Americas and APJ• Optional 1-year warranty via CIS

New features indicated in blue.



HP ZBook 15u G4 at-a-glance (1 of 2)

Form factor	Processor	Graphics	Display	Memory
<ul style="list-style-type: none">One-spindle full performance designMagnesium frame/aluminum insert, mag bottom case19.9 x 383.3 x 257.7 mm (h x w x d)0.79 x 15.09 x 10.1 in (h x w x d)Starting at 4.18 lbs / 1.93 kg	<ul style="list-style-type: none">7th Generation Intel® processorsIntel® Turbo Boost Technology 2.0 supportvPro™ Support (optional)	<ul style="list-style-type: none">Intel® HD Graphics 620AMD FirePro™ W4190M (2 GB)OpenGL support/ISV certificationsAMD Eyefinity for multi-monitor supportSupport for AMD Enduro™ technology	<ul style="list-style-type: none">15.6-inch diagonal FHD SVA/AG15.6-inch diagonal FHD UWVA/AG15.6-inch diagonal Touch FHD SVA/AG15.6-inch diagonal UHD UWVA/AG	<ul style="list-style-type: none">DDR4 - 21332 SODIMM slots; up to 32 GB dual-channel memory (2 x 16 GB)Standard memory with Intel® Core™ processors
Primary storage	Audio	Communications	Expansion slots	
<ul style="list-style-type: none">HP Z Turbo Drive G2 (M.2 NVMe PCIe SSD)<ul style="list-style-type: none">256 GB PCIe (NVMe) TLC256 GB PCIe (NVMe) MLC512 GB PCIe (NVMe) TLC SED1TB PCIe (NVMe) MLCM.2 SATA SSD<ul style="list-style-type: none">256 GB SED (Opal 2)128 GB2.5" SATA HDD<ul style="list-style-type: none">500 GB 7200 rpm1 TB 5400 rpm500 GB 7200 rpm SED (Opal 2)500 GB 7200 rpm FIPS 140-2 SED (Opal 2)2.5" SATA SSHD<ul style="list-style-type: none">500 GB Hybrid (8 GB)HP 3D DriveGuard (HDD)	<ul style="list-style-type: none">Bang & Olufsen AudioIntegrated dual-microphone array; located in the display2 integrated stereo speakers	<ul style="list-style-type: none">Ethernet: Integrated Intel® I219-LM Gigabit Network Connection, included with vPro processors; Integrated Intel® WGI219V Gigabit Network Connection, included with non-vPro processorsWLAN: Intel Dual band wireless-AC 8265 802.11AC 2x2 WiFi + BT 4.2 Combo Adapter (vPro); Intel Dual band wireless-AC 8265 802.11AC 2x2 WiFi + BT 4.2 Combo Adapter (non-vPro); Intel Dual band wireless-AC 3168 802.11AC 1x1 WiFi + BT 4.2 Combo Adaptor (non-vPro) NFC: Integrated NFC with antenna optionWWAN: HP It4120 LTE/EVDO/HSPA+ w/GPS M.2; HP It4132 - LTE/HSPA+ w/GPS M.2	<ul style="list-style-type: none">SD media reader slot – support SD, SDHC, SDXC	



HP ZBook 15u G4 at-a-glance (2 of 2)

Ports	Input devices/camera	Battery	Power	Security
<ul style="list-style-type: none">• (1) USB 3.1 Gen 1• (1) USB 3.0 charging• (1) USB 3.0• (1) RJ-45 (Ethernet)• (1) Headphone/microphone-in combo jack• (1) power connector	<ul style="list-style-type: none">• Full sized chiclet, island-style optional backlit keyboard with separate numeric keypad• Spill resistant design with drain, DuraKey Coating• Dual pointing devices with 2 buttons• Image Sensor touchpad with chemically strengthened glass cover – touchpad On/Off control• 2 discrete buttons (WLAN On/Off, Vol Mute)• 720p HD Webcam (optional)• Support no camera with single microphone option	<ul style="list-style-type: none">• HP 3-cell 51 WHr Long Life battery with Fast Charge support (0 to 50% charged capacity in 30 minutes)	<ul style="list-style-type: none">• HP 65 W Smart AC Adapter	<ul style="list-style-type: none">• HP ProtectTools• TPM 2.0 module• Integrated Smart Card Reader• Optional fingerprint reader (Plug for CIS)• Security lock slot• Full Volume Encryption• HP SureStart Gen3

Operating systems	Key options	Warranty
<ul style="list-style-type: none">• Single image/lean• Preinstalled: Windows 10 Pro 64; Windows 10 Home High End 64; FreeDOS 2.0• Windows10 64-bit	<ul style="list-style-type: none">• 256 GB HP Z Turbo Drive G2 NVMe PCIe SSD• 512 GB HP Z Turbo Drive G2 NMVe PCIe SSD• 512 GB HP Z Turbo Drive G2 NVMe PCIe SED SSD• 1 TB HP Z Turbo Drive G2 NVMe PCIe SSD	<ul style="list-style-type: none">• Standard: Limited 3-year warranty; On-site service standard for Americas and APJ• Optional 1-year warranty via CIS

New features indicated in blue.



HP ZBook Studio G4 at-a-glance (1 of 2)

Form factor	Processor	Graphics	Display	Memory
<ul style="list-style-type: none">• Zero-spindle full performance design• Aluminum/mag panel, mag bottom case• 18 x 375 x 255 mm (h x w x d)• 0.71 x 14.76 x 10.04 in (h x w x d)• Starting at 4.6 lbs / 2.09 kg	<ul style="list-style-type: none">• 7th Generation Intel® Core™ quad-core and Intel® Xeon®• Intel® Turbo Boost Technology 2.0 support• Mobile Intel® CM238 chipset• vPro™ support (optional)	<ul style="list-style-type: none">• Intel HD Graphics 630 available as standalone configurable graphics• NVIDIA® Quadro® M1200M with 4 GB dedicated GDDR5 graphics memory• OpenGL support/ISV certifications• NVIDIA® Mosaic Technology• Support for NVIDIA® Optimus™	<ul style="list-style-type: none">• 15.6-inch diagonal FHD UWVA IPS anti-glare• 15.6-inch diagonal UHD UWVA IPS anti-glare• 15.6-inch diagonal UHD DreamColor UWVA IPS anti-glare• 15.6-inch diagonal FHD Touch UWVA IPS	<ul style="list-style-type: none">• DDR4 - 2400• 2 SODIMM slots; up to 32 GB dual-channel memory (2 x 16 GB)• Standard memory with Intel® Core™ processors• ECC memory with Intel® Xeon® processors
Primary storage	Audio	Communications	Expansion slots	
<ul style="list-style-type: none">• HP Z Turbo Drive G2 (M.2 NVMe PCIe SSD)<ul style="list-style-type: none">• 256 GB PCIe (NVMe) TLC• 256 GB PCIe (NVMe) MLC• 512 GB PCIe (NVMe) TLC SED• 1TB PCIe NVMe MLC• M.2 SATA SSD<ul style="list-style-type: none">• 256 GB SED (Opal 2)• 128 GB• HP 3D DriveGuard (HDD)	<ul style="list-style-type: none">• Bang & Olufsen Audio• Integrated dual-microphone array; located in the display• 2 integrated stereo speakers	<ul style="list-style-type: none">• Ethernet: Intel (I219-LM) Gigabit Network• WLAN: Intel® 802.11 2x2ac + BT 4.2 Combo (vPro™ and non-vPro™)	<ul style="list-style-type: none">• SD UHS-II media cards slot – support SD, SDHC, SDXC	

New features indicated in gold.



HP ZBook Studio G4 at-a-glance (2 of 2)

Ports	Input devices/camera	Battery	Power	Security
<ul style="list-style-type: none">• (2) Thunderbolt™ 3 ports (supporting DP 1.2, USB 3.1 Gen 2, PCIe) on the new USB-C connector• (1) HDMI• (1) USB 3.0 charging• (2) USB 3.0• (1) RJ-45 (Ethernet)• (1) Headphone/microphone-in combo jack• (1) power connector	<ul style="list-style-type: none">• Full sized chiclet, island-style standard backlit keyboard• Spill resistant design with drain, DuraKey Coating• Large Clickpad w/ Image Sensor and chemically strengthened glass cover – Clickpad On/Off control• 2 discrete buttons (WLAN On/Off, Vol Mute)• 720p HD Webcam (optional)• Support no camera with single microphone option	<ul style="list-style-type: none">• HP 4-cell 64 WHr (4.21 Ahr) Long Life Prismatic battery• HP 8-cell 92.4 WHr (2.7 Ahr) Long Life Polymer battery• HP Fast Charge	<ul style="list-style-type: none">• 3-pin 150 W Slim Smart AC adapter	<ul style="list-style-type: none">• HP ProtectTools• TPM 2.0 module• Optional fingerprint reader• Security lock slot• Full Volume Encryption• HP SureStart Gen3

Operating systems	Key options	Warranty
<ul style="list-style-type: none">• Single image/lean• Preinstalled: Windows 10 Pro 64; Windows 10 Home High-end 64• Supported: Windows 10 Enterprise 64-bit• Supported: Windows 7/10 Enterprise 64-bit• Supported: Red Hat Enterprise Linux 6/7	<ul style="list-style-type: none">• Support for HP ZBook Dock with Thunderbolt 3• 4096/8192 MB upgrade modules• 1 TB HP Z Turbo Drive G2	<ul style="list-style-type: none">• Standard: Limited 3-year warranty; on-site service standard for Americas and APJ• Optional 1-year warranty via CIS

New features indicated in gold.



HP ZBook 15 G4 at-a-glance (1 of 2)

Form factor	Processor	Graphics	Display	Memory
<ul style="list-style-type: none">Full performance design with a sleek design utilizing Aluminum/mag panel and mag bottom case26 x 386 x 264 mm (h x w x d) / 1.0 x 15.2 x 10.4 in (h x w x d)Starting at 5.7 lbs / 2.59 kg	<ul style="list-style-type: none">7th Generation Intel® Core™ quad-core and Intel® Xeon®Intel® Turbo Boost Technology 3.0 supportMobile Intel® CM238 chipsetvPro™ support (optional)	<ul style="list-style-type: none">Intel® HD Graphics 630, P630NVIDIA® Quadro® M620, M1200, M2200AMD Radeon™ Pro WX4150UMA optionOpenGL support/ISV certificationsSupport for NVIDIA® Optimus™	<ul style="list-style-type: none">15.6-inch diagonal with options of FHD SVA/AG, FHD UWVA/AG, FHD Touch UWVA, or UHD DreamColor UWVA/AG	<ul style="list-style-type: none">8-64 GB DDR4 – 2400 MHz4 dual-sided open SODIMM slots; up to 64 GB memoryStandard memory with Intel® Core™ processorsECC memory with Intel® Xeon® processors
Primary storage	Audio	Communications	Expansion slots	
<ul style="list-style-type: none">HP Z Turbo Drive G2 (M.2 NVMe PCIe SSD)<ul style="list-style-type: none">256 GB PCIe (NVMe) TLC256 GB PCIe (NVMe) MLC512 GB PCIe (NVMe) TLC SED1TB PCIe (NVMe) MLCM.2 SATA SSD<ul style="list-style-type: none">256 GB SED2.5" SATA SSD<ul style="list-style-type: none">256 GB, 1 TB2.5" SATA HDD<ul style="list-style-type: none">500 GB 7200500 GB 7200 SED500 GB 7200 SED FIPS1 TB 5400500 GB Hybrid (8 GB)HP 3D DriveGuard (HDD)	<ul style="list-style-type: none">Bang & Olufsen AudioIntegrated dual-microphone arrayMicrosoft Lync Unified Certification (Lync + Skype)2 integrated stereo speakers	<ul style="list-style-type: none">RJ-45 Ethernet portPXE boot supportedIntel (I219-LM) Gigabit NetworkIntel® 8265 802.11 2x2ac + BT 4.2 combo (vPro™ and non-vPro™)WWAN HP It4120 LTE HSPA+ EVDO Gobi 4G; HP hs3210 HSPA+, HP It4132 LTE/HSPA+ 4G	<ul style="list-style-type: none">Integrated SD flash media slot (RT5237S)- supports SD, SDHC, SDXIntegrated SmartCard reader	

HP ZBook 15 G4 at-a-glance (2 of 2)

Ports	Input devices/camera	Battery	Power	Security
<ul style="list-style-type: none">• (2) USB Type-C (Thunderbolt™ 3 + DP 1.2 + USB 3.1)• (1) HDMI• (1) USB 3.0 charging• (2) USB 3.0• (1) RJ-45 (Ethernet)• (1) VGA• (1) Headphone/microphone-in combo jack• (1) power connector	<ul style="list-style-type: none">• Full sized chiclet, island-style optional backlit keyboard w/ numeric keypad, spill resistant design with drain, DuraKey coating• Dual pointing devices with 3 buttons, Image Sensor touchpad with chemically strengthened glass cover – touchpad On/Off control• 720p HD webcam	<ul style="list-style-type: none">• 90 Whr Polymer battery pack – targeted for up to 14 hours of battery life• HP Fast Charge	<ul style="list-style-type: none">• 150W Slim Smart AC adapter	<ul style="list-style-type: none">• Smart card reader• TPM 2.0 module• Optional fingerprint reader• Security lock slot• Full volume encryption• HP Sure Start Gen3

Operating systems	Key options	Warranty
<ul style="list-style-type: none">• Single image/lean• Preinstalled: Windows 10 Pro 64• Preinstalled: Windows 10 Home High-end 64• Preinstalled: FreeDOS 2.0• Supported: Windows 10 Enterprise 64-bit	<ul style="list-style-type: none">• Support for HP ZBook Dock with Thunderbolt 3; HP Elite USB-C Dock• 1 TB HP Z Turbo Drive G2• UHD DreamColor display	<ul style="list-style-type: none">• Standard: Limited 3-year warranty; on-site service standard for Americas and APJ• Optional 1-year warranty via CIS

New features indicated in blue.



HP ZBook 17 G4 at-a-glance (1 of 2)

Form factor	Processor	Graphics	Display	Memory
<ul style="list-style-type: none">Full performance design with a sleek design utilizing Aluminum/Mag panel and Mag bottom case33 x 420 x 280 mm (h x w x d) / 1.3 x 16.5 x 11 in (h x w x d)Starting at 6.9 lbs / 3.14 kg	<ul style="list-style-type: none">7th Generation Intel® Core™ quad-core and Intel® Xeon®Intel® Turbo Boost Technology 2.0 supportMobile Intel® CM238 chipsetvPro™ support (optional)	<ul style="list-style-type: none">Intel® HD Graphics 630, P630NVIDIA® Quadro® M1200, M2200, P3000, P4000, P5000AMD Radeon™ Pro WX4170UMA optionOpenGL support/ISV certificationsSupport for NVIDIA® Optimus™	<ul style="list-style-type: none">17.3-inch diagonal FHD SVA/AG17.3-inch diagonal FHD UWVA/AG17.3-inch diagonal FHD Touch UWVA17.3-inch diagonal UHD DreamColor UWVA/AG	<ul style="list-style-type: none">8-64 GB DDR4 – 2400 MHz4 dual-sided open SODIMM slots; up to 64 GB memoryStandard memory with Intel® Core™ processorsECC memory with Intel® Xeon® processors
Primary storage	Audio	Communications	Expansion slots	
<ul style="list-style-type: none">HP Z Turbo Drive G2 (M.2 NVMe PCIe SSD)<ul style="list-style-type: none">256 GB PCIe (NVMe) TLC256 GB PCIe (NVMe) MLC512 GB PCIe (NVMe) TLC SED1TB PCIe (NVMe) MLCM.2 SATA SSD<ul style="list-style-type: none">256 GB SED2.5" SATA SSD<ul style="list-style-type: none">256 GB, 1 TB2.5" SATA HDD<ul style="list-style-type: none">500 GB, 1 TB 7200500 GB 7200 SED500 GB 7200 SED FIPS1 TB 5400500 GB Hybrid (8 GB)HP 3D DriveGuard (HDD)	<ul style="list-style-type: none">Bang & Olufsen AudioIntegrated dual-microphone arrayMicrosoft Lync Unified Certification (Lync + Skype)2 integrated stereo speakers	<ul style="list-style-type: none">RJ-45 Ethernet portPXE boot supportedIntel (I219-LM) Gigabit NetworkIntel® 8265 802.11 2x2ac + BT 4.2 combo (vPro™ and non-vPro™)WWAN HP It4120 LTE HSPA+ EVDO Gobi 4G; HP hs3210 HSPA+, HP It4132 LTE/HSPA+ 4G	<ul style="list-style-type: none">Integrated SD flash media slot (RT5237S)- supports SD, SDHC, SDXIntegrated SmartCard readerTool less access to HDD and battery	

New features indicated in blue.



HP ZBook 17 G4 at-a-glance (2 of 2)

Ports	Input devices/camera	Battery	Power	Security
<ul style="list-style-type: none">• (2) USB Type-C (Thunderbolt™ 3 + DP 1.2 + USB 3.1)• (1) HDMI• (1) USB 3.0 charging• (3) USB 3.0• (1) RJ-45 (Ethernet)• (1) VGA• (1) Headphone/microphone-in combo jack• (1) power connector	<ul style="list-style-type: none">• Full sized chiclet, island-style optional backlit keyboard w/ numeric keypad, spill resistant design with drain, DuraKey coating• Dual pointing devices with 3 buttons, Image Sensor touchpad with chemically strengthened glass cover – touchpad On/Off control• 720p HD webcam	<ul style="list-style-type: none">• 96 Whr Polymer battery pack – targeted for up to 14 hours of battery life• HP Fast Charge	<ul style="list-style-type: none">• 200W Slim Smart AC adapter	<ul style="list-style-type: none">• Smart card reader• TPM 2.0 module• Optional fingerprint reader• Security lock slot• Full volume encryption• HP Sure Start Gen3

Operating systems	Key options	Warranty
<ul style="list-style-type: none">• Single image/lean• Preinstalled: Windows 10 Pro 64• Preinstalled: Windows 10 Home High-end 64• Preinstalled: FreeDOS 2.0• Supported: Windows 10 Enterprise 64-bit	<ul style="list-style-type: none">• Support for HP ZBook Dock with Thunderbolt 3; HP Elite USB-C Dock• 1 TB HP Z Turbo Drive G2• UHD DreamColor display	<ul style="list-style-type: none">• Standard: Limited 3-year warranty; on-site service standard for Americas and APJ• Optional 1-year warranty via CIS

New features indicated in blue.



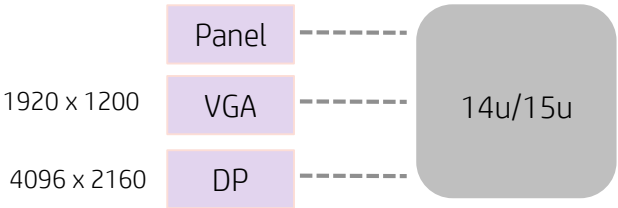
Hybrid graphics: multi-display

HP ZBook 14u and 15u

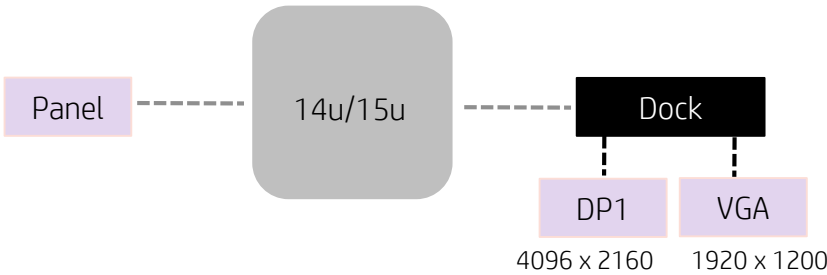
iGPU

Reference Diagram

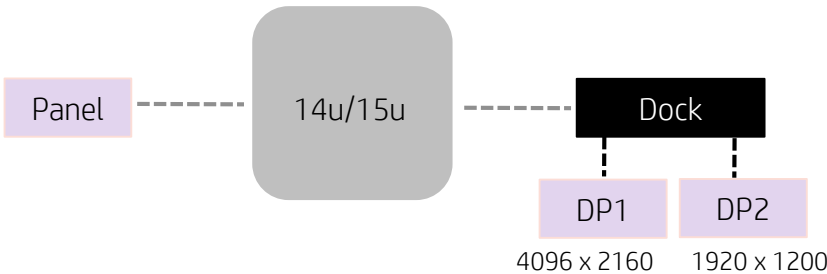
Configuration	HP ZBook 14u/15u
Max displays no dock	3



Configuration	HP ZBook 14u/15u
Max displays with dock	3



Configuration	HP ZBook 14u/15u
Max displays with dock	3



Hybrid graphics: multi-display

HP ZBook Studio, 15, 17

Recommended configurations

Configuration	HP ZBook 15/17	HP ZBook Studio
Max displays no dock	4	3

Configuration	HP ZBook 15/17	HP ZBook Studio
Max displays with dock	6	5

Configuration	HP ZBook 15/17	HP ZBook Studio
Two 4Ks with dock	4	3

iGPU

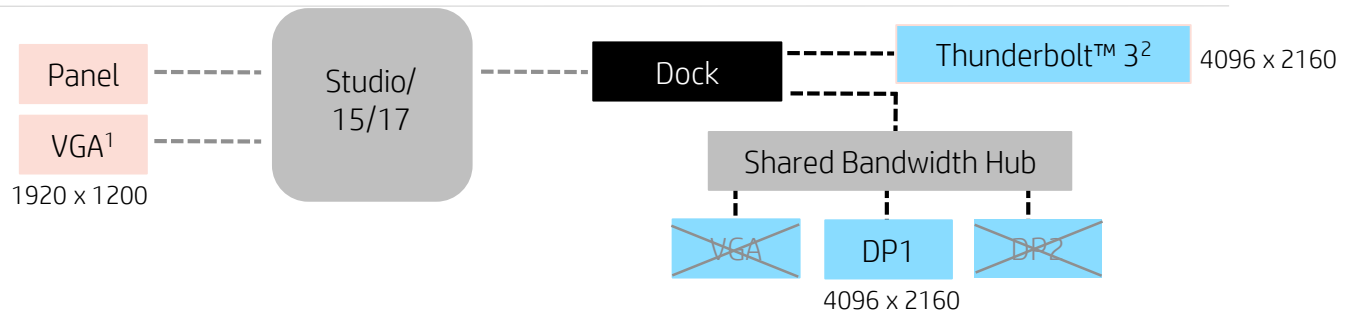
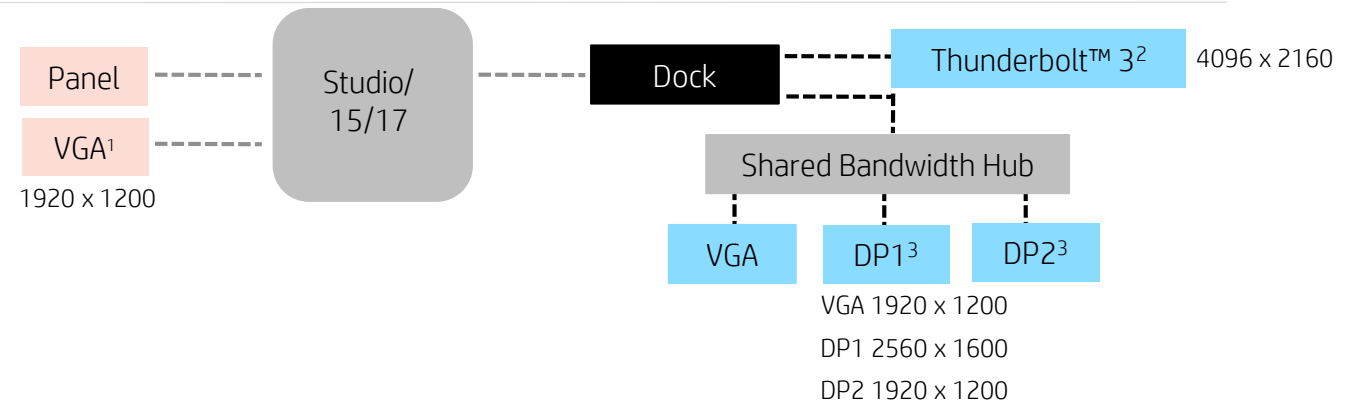
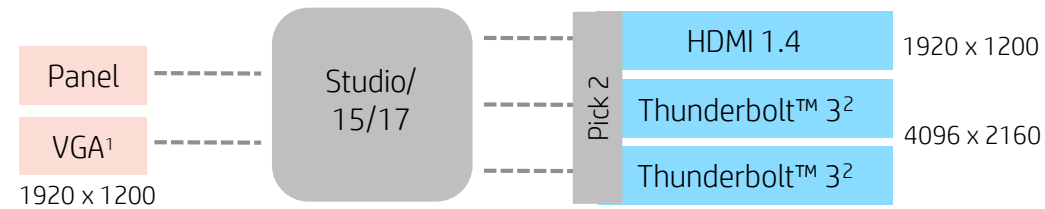
dGPU

¹ Studio does not have VGA in system.

² Thunderbolt™ 3 may require USB-C to DP dongle.

³ DP1 and DP2 resolutions can be switched.

Reference diagram



dGPU graphics: multi-display

HP ZBook Studio, 15, 17

Recommended configurations

Configuration	HP ZBook 15/17	HP ZBook Studio
Max displays no dock	NVIDIA – 4 AMD – 4	3

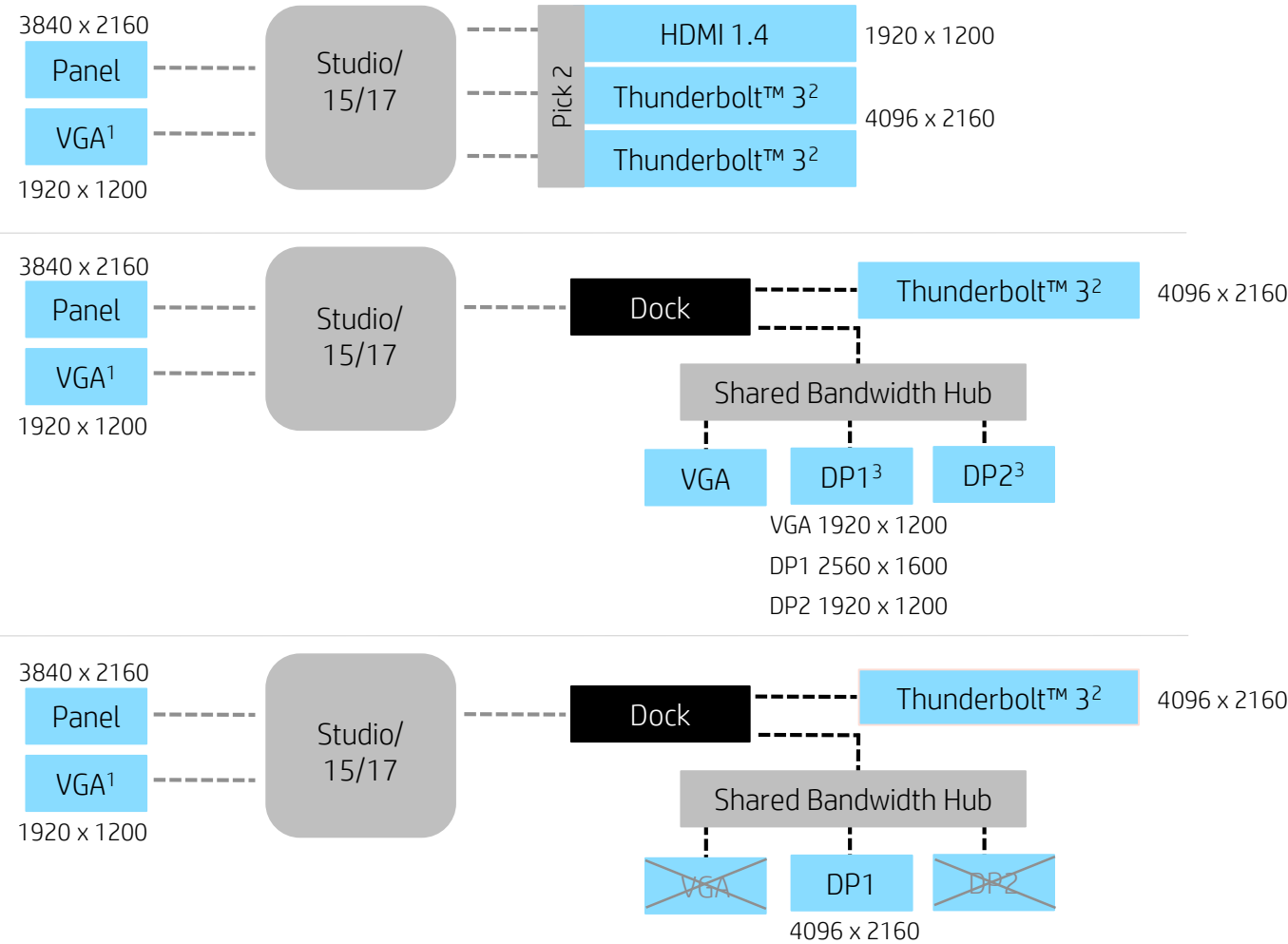
Configuration	HP ZBook 15/17	HP ZBook Studio
Max displays with dock	NVIDIA – Pick any 4 AMD – 6	Pick any 4

Configuration	HP ZBook 15/17	HP ZBook Studio
Two 4Ks with dock	NVIDIA – 4 AMD – 4	3

 dGPU

- ¹ Studio does not have VGA in system.
- ² Thunderbolt 3™ may require USB-C to DP dongle.
- ³ DP1 and DP2 resolutions can be switched.

Reference diagram



UMA¹ graphics: multi-display

HP ZBook Studio, 15, 17

Recommended configurations

Configuration	HP ZBook Studio/15/17
Max displays no dock	Pick any 3

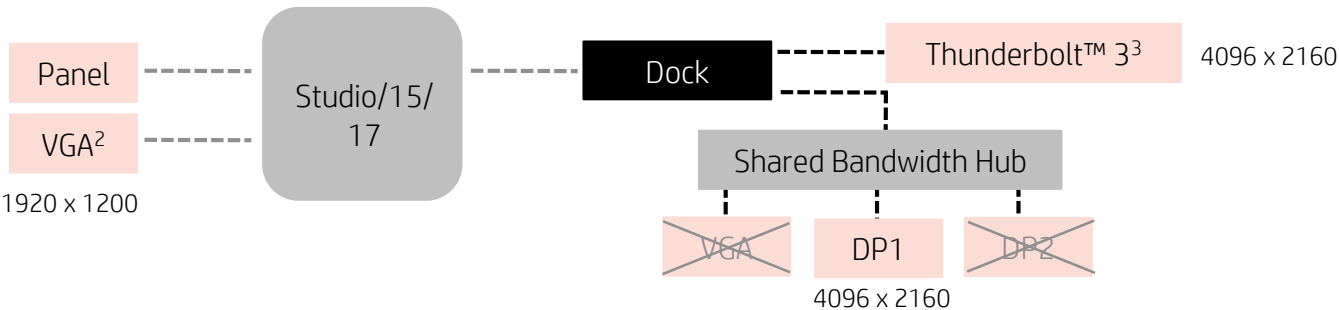
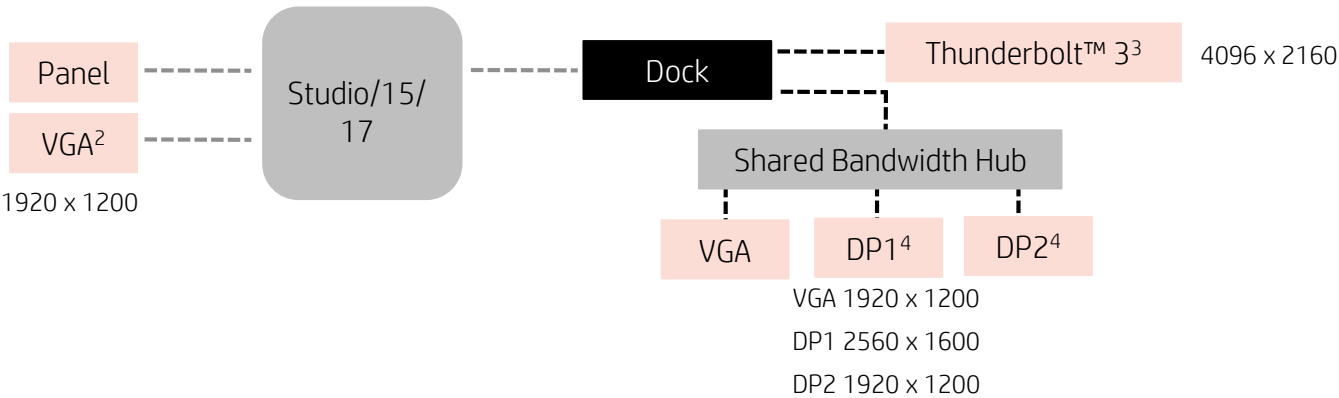
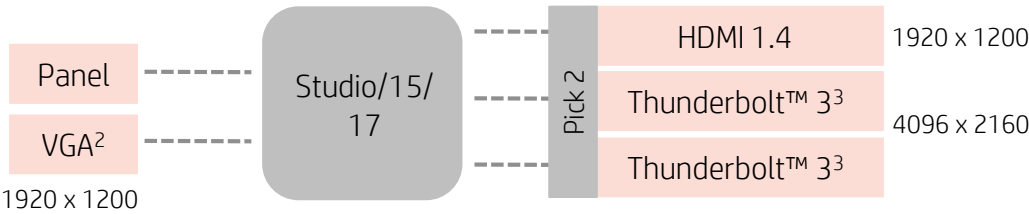
Configuration	HP ZBook Studio/15/17
Max displays with dock	Pick any 3

Configuration	HP ZBook Studio/15/17
Two 4Ks with dock	Pick any 3

iGPU

- ¹ UMA supports a max of 3 displays.
- ² Studio does not have VGA in system.
- ³ Thunderbolt™ 3 may require USB-C to DP dongle.
- ⁴ DP1 and DP2 resolutions can be switched.

Reference diagram

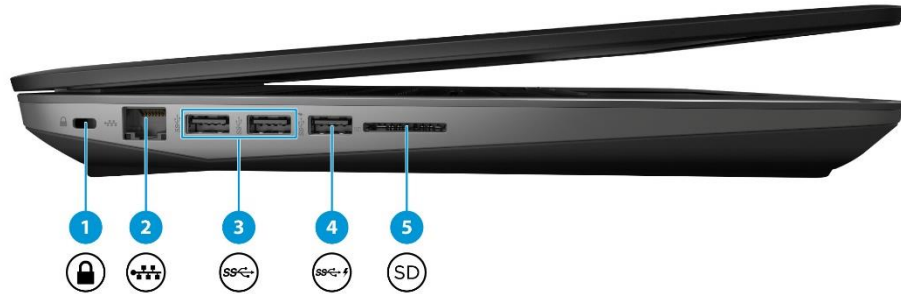


HP ZBook 17 G4 feature placement (1 of 3)



Front view

- | | |
|-------------------|-----------------------------|
| 1. Wireless light | 3. AC adapter/battery light |
| 2. Power light | 4. Hard drive light |



Left view

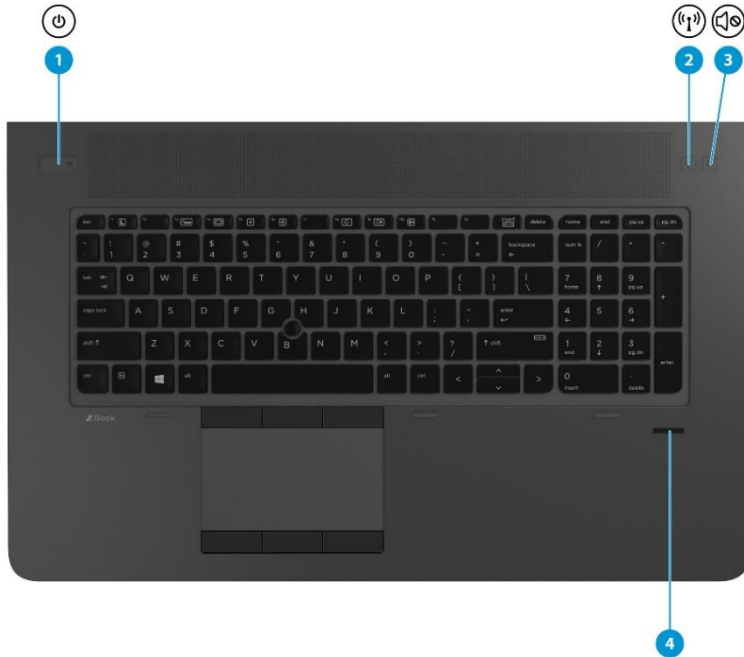
- | | |
|-----------------------|-------------------------------|
| 1. Security lock slot | 4. USB 3.0 (charging) |
| 2. RJ-45 (Ethernet) | 5. SD UHS-II Flash Media slot |
| 3. USB 3.0 (2) | |



Right view

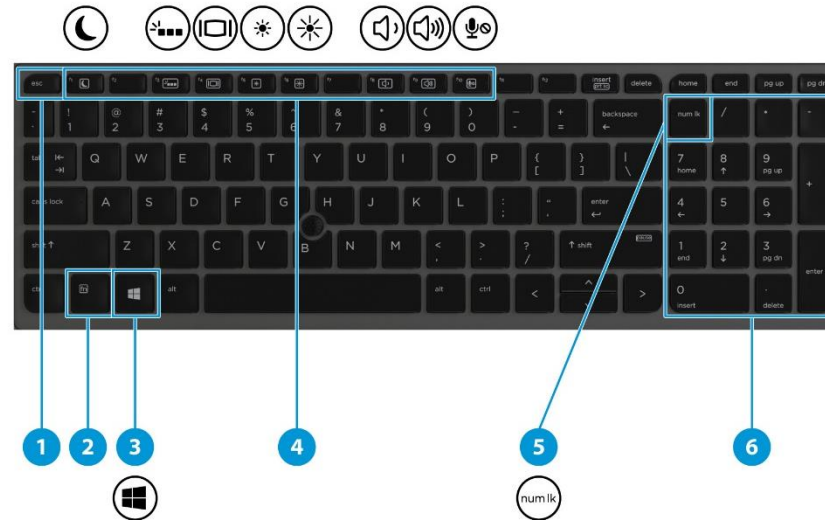
- | | |
|------------------------------------------------------|-----------------------|
| 1. Smart Card Reader | 4. HDMI |
| 2. Stereo microphone in/
headphone out combo jack | 5. VGA |
| 3. USB 3.0 | 6. (2) Thunderbolt™ 3 |
| | 7. Power connector |

HP ZBook 17 G4 feature placement (2 of 3)



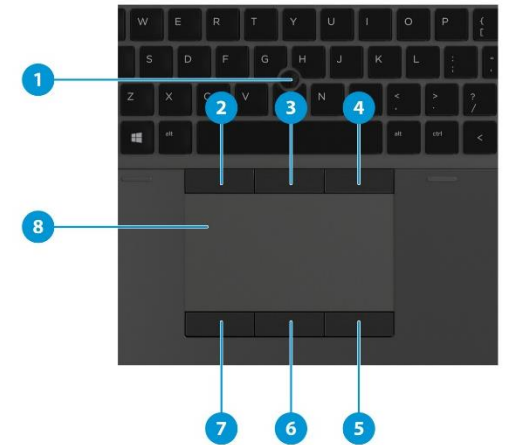
Top buttons

1. Power button
2. Wireless button
3. Volume mute button
4. Fingerprint reader (select models only)



Keyboard buttons

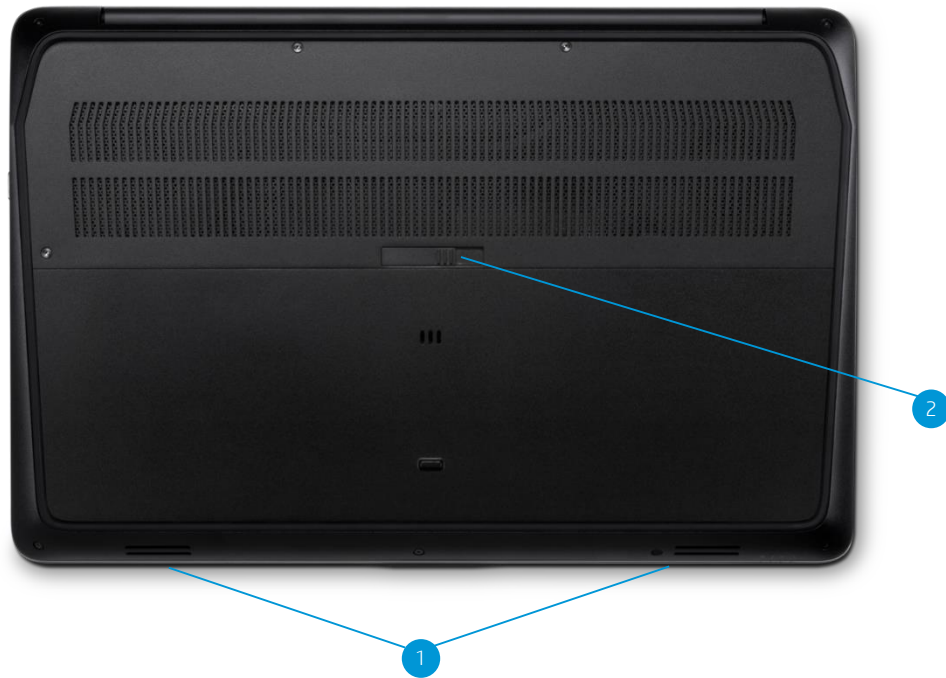
1. Escape key
2. Fn key
3. Windows key
4. Function keys
5. Num lock light
6. Numeric keypad



Touchpad buttons

1. Pointstick
2. Upper left touchpad button
3. Upper middle touchpad button
4. Upper right touchpad button
5. Lower right touchpad button
6. Lower middle touchpad button
7. Lower left touchpad button
8. Touchpad with scroll zone

HP ZBook 17 G4 feature placement (3 of 3)



Bottom view

1. Speaker holes
2. Easy access latch and back panel



Display view

1. WLAN antennas (2)
2. Internal microphone
3. Webcam LED
4. Webcam

HP ZBook 15 G4 feature placement (1 of 3)



Front view

- | | |
|-------------------|-----------------------------|
| 1. Wireless light | 3. AC adapter/battery light |
| 2. Power light | 4. Hard drive light |



Left view

- | | |
|------------------------|-------------------------------|
| 1. Security cable slot | 4. USB 3.0 (charging) |
| 2. RJ-45 (Ethernet) | 5. SD UHS-II Flash Media slot |
| 3. VGA port | |



Right view

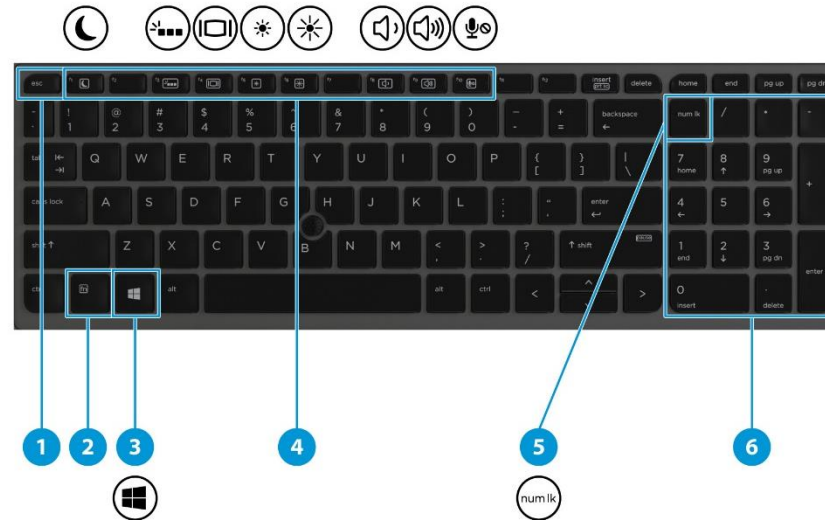
- | | |
|------------------------------------------------------|-----------------------|
| 1. Smart Card Reader | 4. HDMI |
| 2. Stereo microphone in/
headphone out combo jack | 5. (2) Thunderbolt™ 3 |
| 3. (2) USB 3.0 | 6. Power connector |

HP ZBook 15 G4 feature placement (2 of 3)



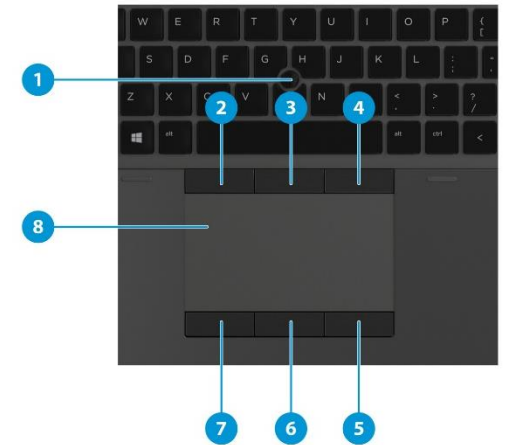
Top buttons

1. Power button
2. Wireless button
3. Volume mute button
4. Fingerprint reader (select models only)



Keyboard buttons

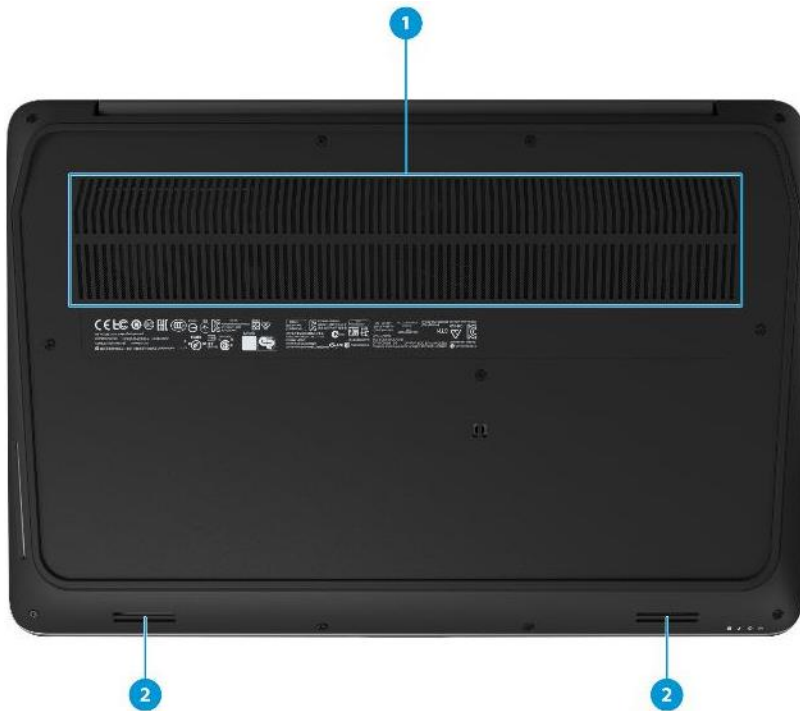
1. Escape key
2. Fn key
3. Windows key
4. Function keys
5. Num lock light
6. Numeric keypad



Touchpad buttons

1. Pointstick
2. Upper left touchpad button
3. Upper middle touchpad button
4. Upper right touchpad button
5. Lower right touchpad button
6. Lower middle touchpad button
7. Lower left touchpad button
8. Touchpad with scroll zone

HP ZBook 15 G4 feature placement (3 of 3)



Bottom view

1. Bottom cover vent
2. Speakers



Display view

1. WLAN antennas (2)
2. Internal microphone
3. Webcam LED
4. Webcam

HP ZBook Studio G4 feature placement (1 of 3)



Left view

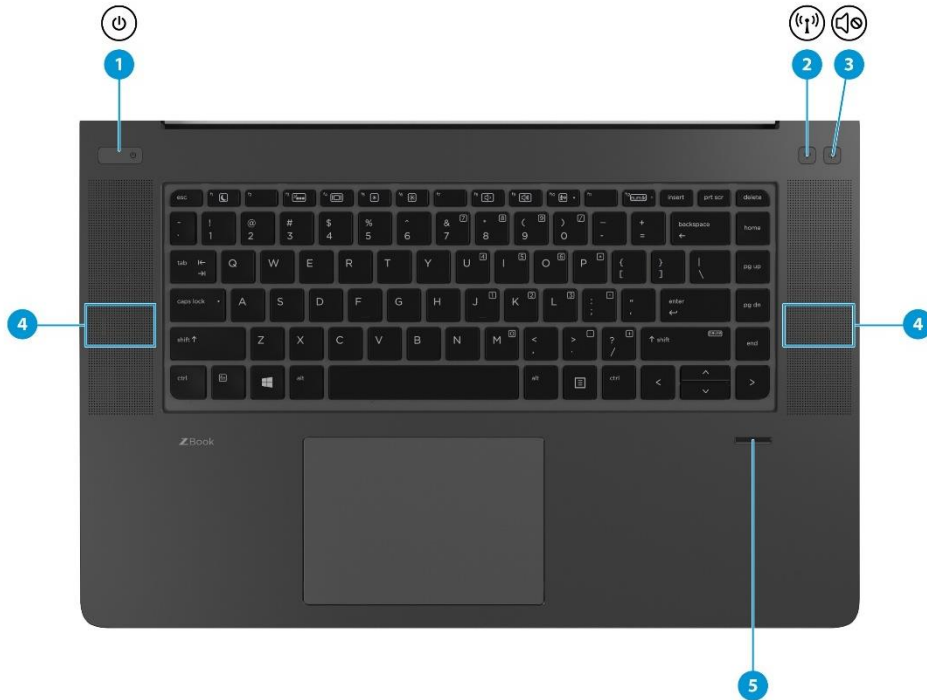
- | | |
|-----------------------|-------------------------------|
| 1. Security lock slot | 4. USB 3.0 (charging) |
| 2. RJ-45 (Ethernet) | 5. SD UHS-II Flash Media slot |
| 3. USB 3.0 | |



Right view

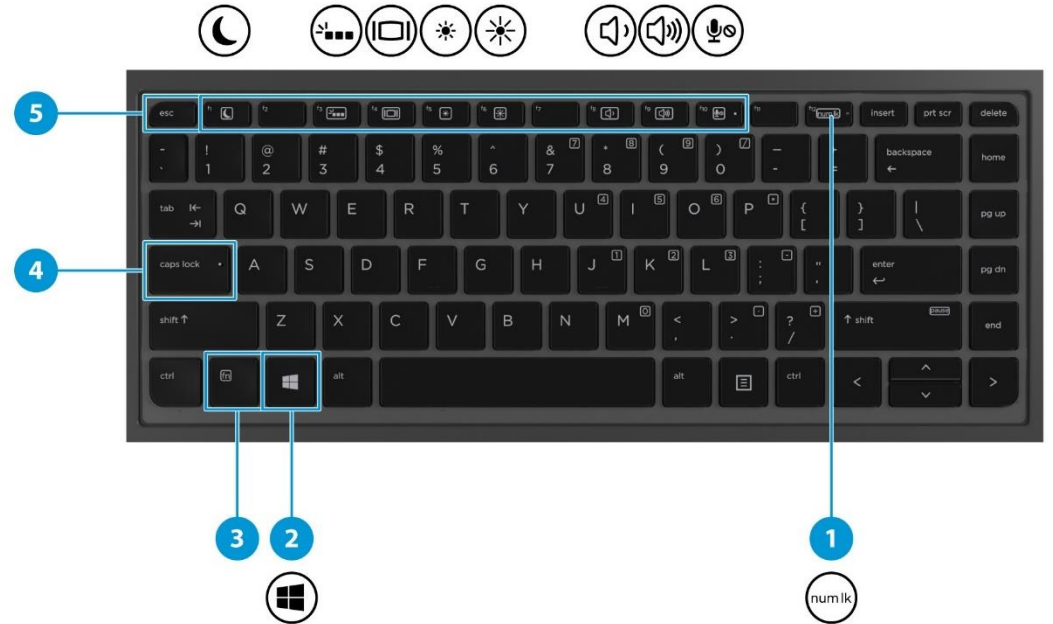
- | | |
|-----------------------------------------------------|-----------------------|
| 1. Audio in (microphone)/Audio out (headphone) jack | 4. (2) Thunderbolt™ 3 |
| 2. USB 3.0 | 5. Power connector |
| 3. HDMI | |

HP ZBook Studio G4 feature placement (2 of 3)



Top buttons

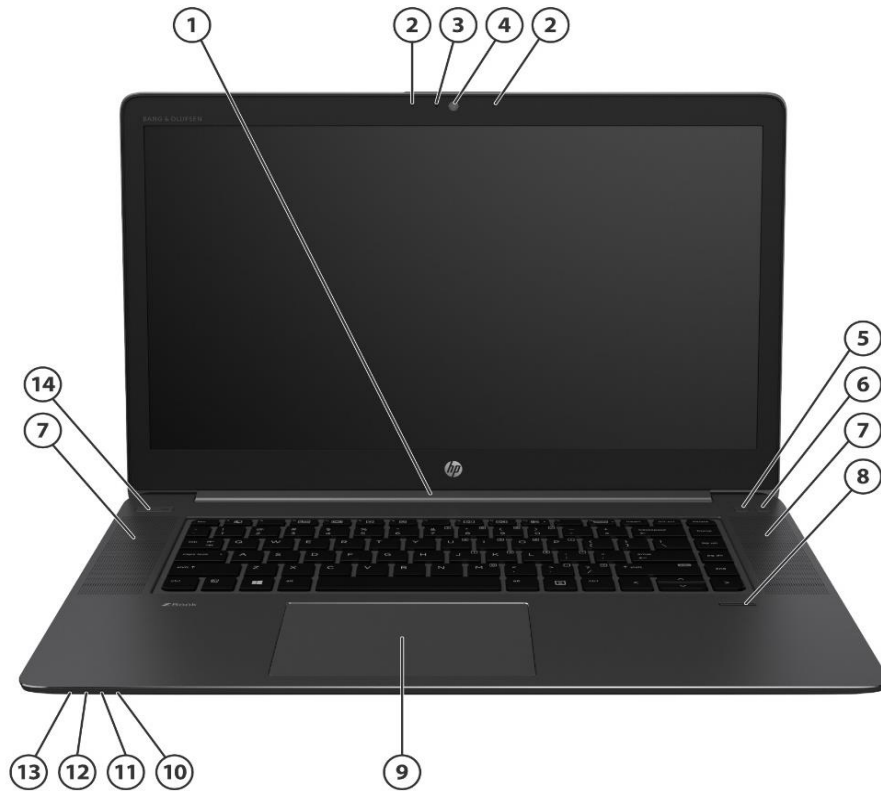
1. Power button
2. Wireless button
3. Volume mute button
4. Speakers
5. Fingerprint Reader



Keyboard buttons

1. Num lock light
2. Windows key
3. Fn key
4. Caps lock light
5. Function keys

HP ZBook Studio G4 feature placement (3 of 3)



Display view

1. WLAN antennas (2)
2. Internal microphones (2)
3. Webcam Light (with webcam)
4. Optional 720p HD Webcam
5. Wireless button
6. Volume mute button
7. Speakers
8. Fingerprint reader (select models only)
9. Clickpad
10. Storage light indicator
11. Battery light indicator
12. Power light indicator
13. Wireless light indicator
14. Power button

HP ZBook 15u G4 feature placement (1 of 3)

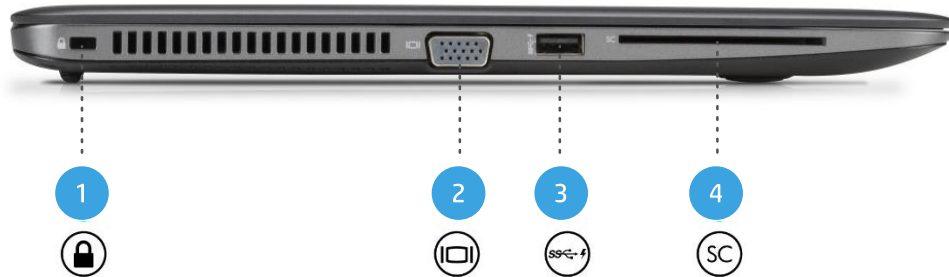
Save time connecting to peripherals and transferring data



Front view

- 1. Wireless light
- 2. Power light

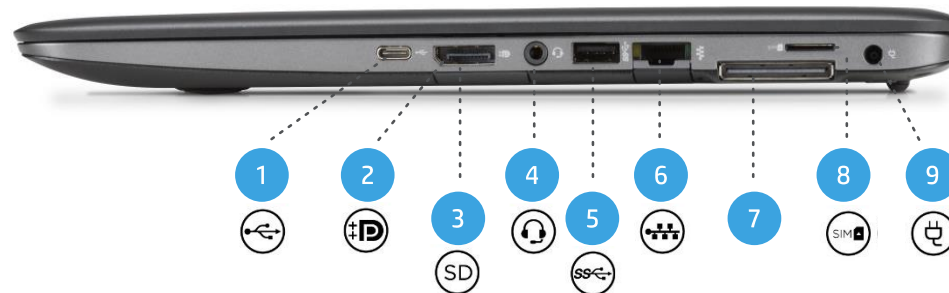
- 3. AC adapter/battery light
- 4. Hard drive light



Left view

- 1. Security lock slot
- 2. VGA

- 3. USB 3.0 (charging)
- 4. Smart Card Reader



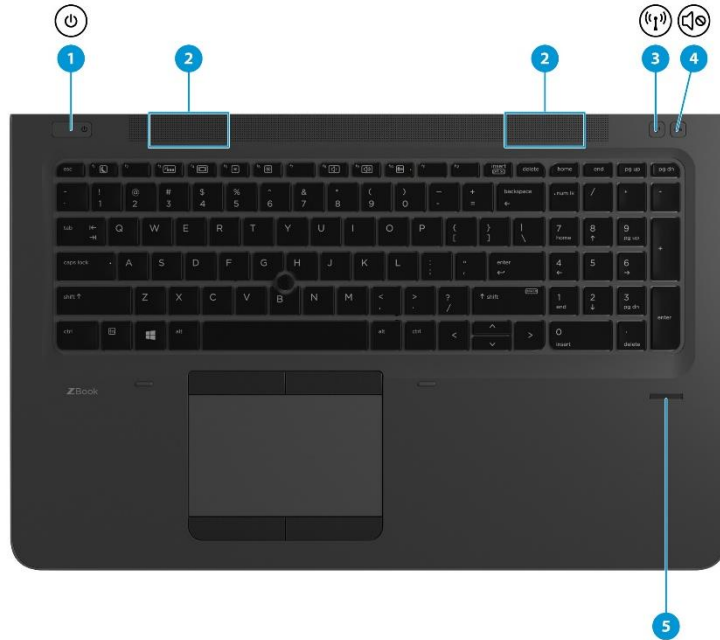
Right view

- 1. USB 3.1 (Gen 1)
- 2. DisplayPort™
- 3. SD UHS-II Flash Media slot
- 4. Headphone/Microphone Combo
- 5. USB 3.0

- 6. RJ-45 (Ethernet)
- 7. Slide docking connector
- 8. SIM module slot
- 9. Power connector

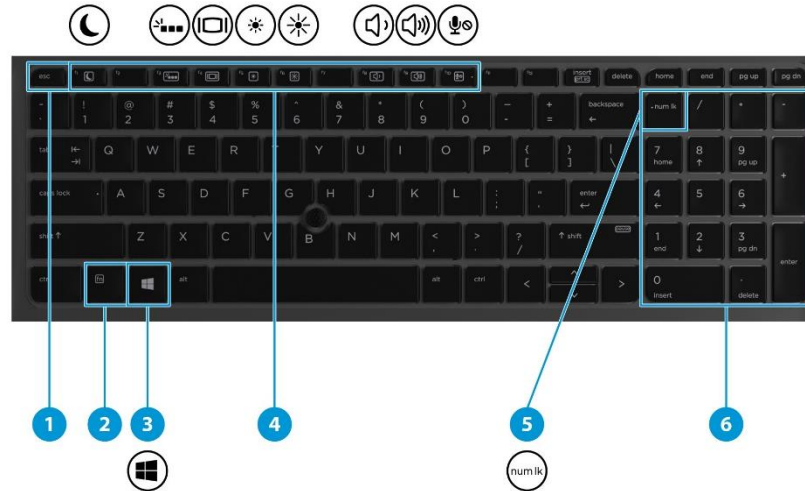
HP ZBook 15u G4 feature placement (2 of 3)

This mobile workstation offers the features and the price you need



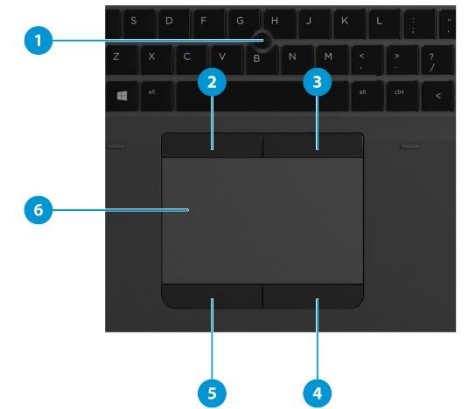
Top buttons

1. Power button
2. Speakers (2)
3. Wireless button
4. Volume mute button
5. Fingerprint reader (select models only)



Keyboard buttons

1. Escape key
2. Fn key
3. Windows key
4. Function keys
5. Num lock light
6. Numeric keypad

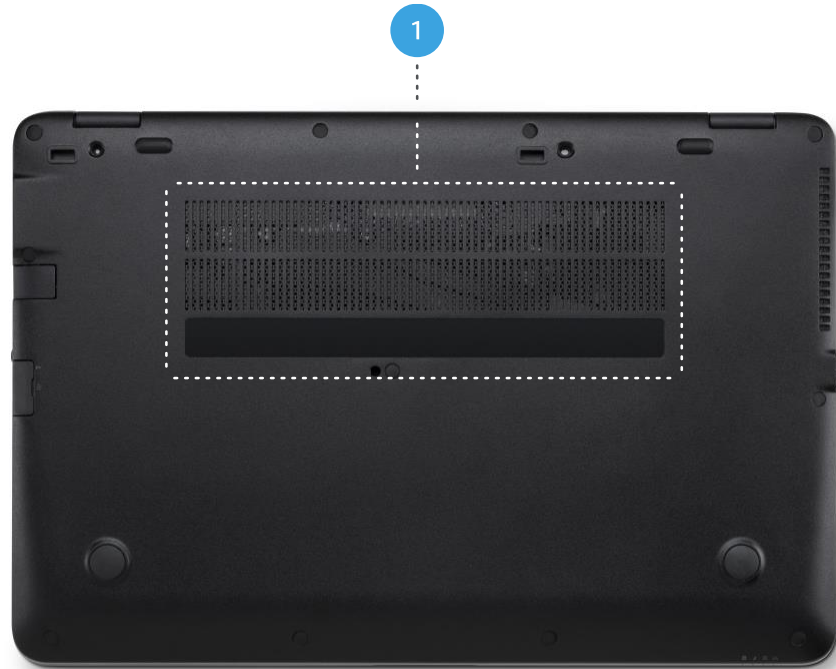


Touchpad buttons

1. Pointstick
2. Upper left touchpad button
3. Upper right touchpad button
4. Lower left touchpad button
5. Lower right touchpad button
6. Touchpad with scroll zone

HP ZBook 15u G4 feature placement (3 of 3)

Pick the right display for the way you work



Bottom view

- 1. Bottom cover vent

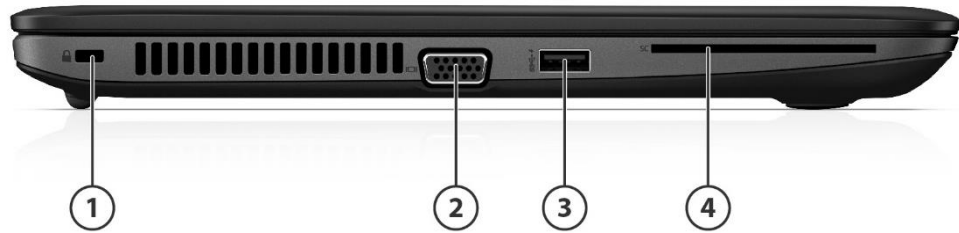


Display view

- 1. WLAN antenna
- 2. Internal microphone
- 3. Webcam LED
- 4. Webcam

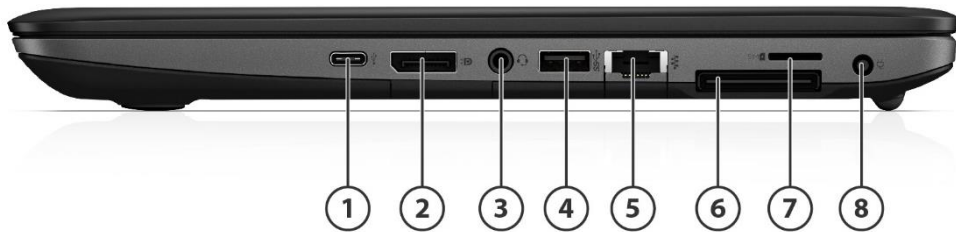
HP ZBook 14u G4 feature placement (1 of 2)

Save time connecting to peripherals and transferring data



Left view

- 1. Security lock slot
- 2. VGA
- 3. USB 3.0 (charging)
- 4. Smart Card Reader

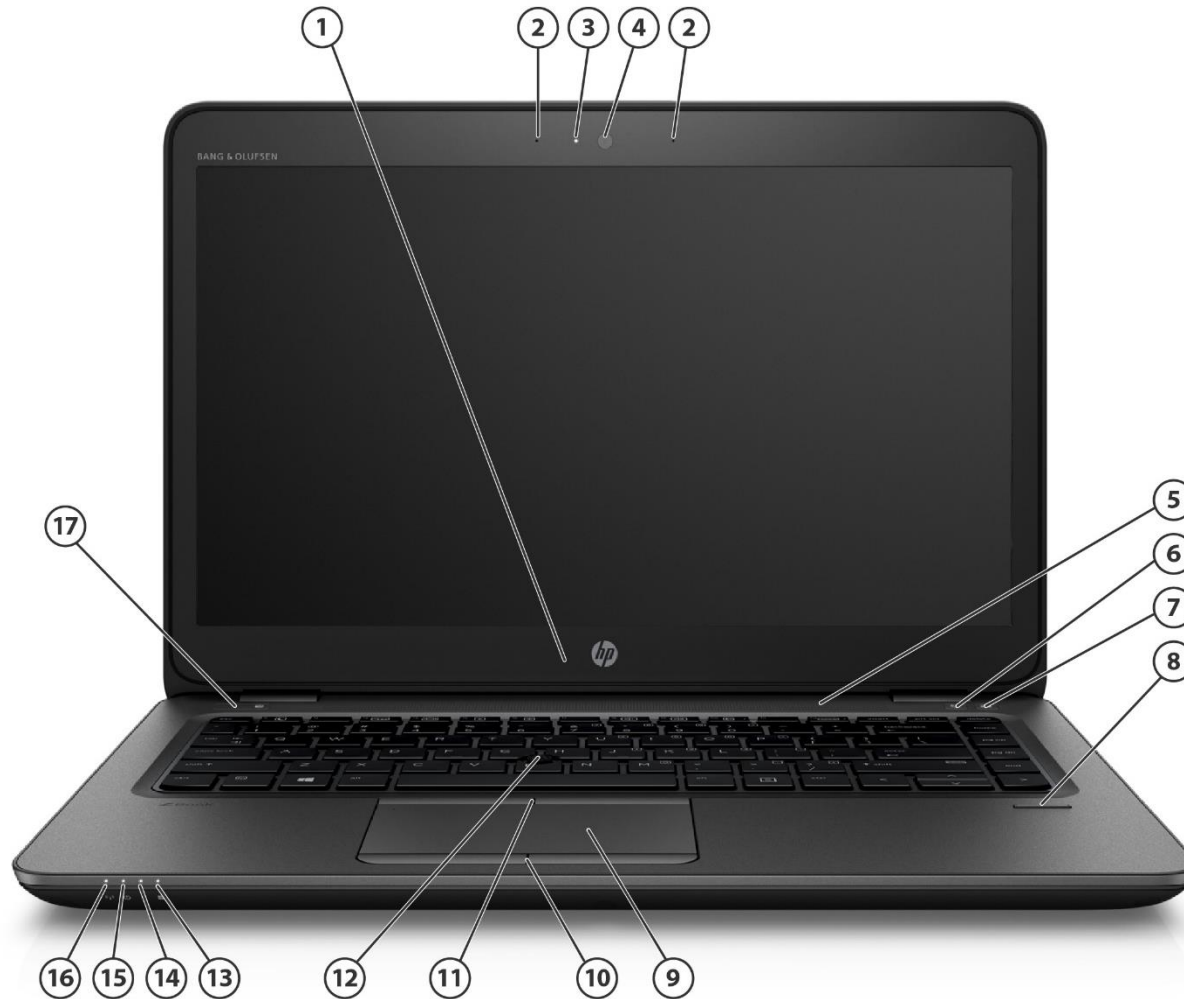


Right view

- 1. USB-Type C™ (USB 3.1 Gen 1)
- 2. DisplayPort™ 1.2
- 3. Headphone/Microphone Combo
- 4. USB 3.0
- 5. RJ-45 (Ethernet)
- 6. Slide docking connector
- 7. SIM module slot
- 8. Power connector

HP ZBook 14u G4 feature placement (2 of 2)

Offering the features and the price you need



Front

1. Wireless LAN antennas
2. WWAN antennas (select models)
3. Internal microphones (2)
4. Webcam
5. Speakers
6. Wireless On/Off button
7. Volume mute button
8. Fingerprint reader (select models)
9. Touchpad
10. Lower Touchpad buttons (right and left click buttons)
11. Upper Touchpad buttons (right and left click buttons)
12. Point Stick
13. Storage light indicator
14. Battery light indicator
15. Power light indicator
16. Wireless light indicator
17. Power button

HP ZBook G4 Family

Thank you



Footnotes

1. Based on HP's unique and comprehensive security capabilities at no additional cost among mobile workstation vendors as of Jan. 2017 on HP Mobile Workstations with 7th Gen Intel® Processors.
2. HP Megatrends report
3. 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.
4. Sold separately or as an optional feature.
5. HP Sure Start Gen3 is available on HP EliteBook and HP ZBook products equipped with Intel® 7th generation processors.
6. Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
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>
8. Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software, and overall system configuration. See intel.com/technology/turboboost for more information.
9. HD content required to view HD images.
10. Supports up to 3 independent displays via internal LCD Panel, system DisplayPort™, system VGA, or using the HP UltraSlim Docking Station DisplayPort™ and VGA ports (sold separately).
11. For storage drives GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
12. Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
13. WWAN is an optional feature. WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in 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.
14. 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.
15. Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
16. NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST. AMD Radeon™ Pro professional graphics support up to six independent displays when using an HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.
17. Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
18. MIL STD 810G testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care
19. HP Multi Factor Authenticate requires 7th Generation Intel® Core™ processor, Intel® integrated graphics, and Intel® WLAN
20. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
21. HP WorkWise smartphone app is available as a free download on the Apple Store and Google Play. For system requirements, see www.hp.com/go/hpworkwise
22. HP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
23. Intel® Xeon® E3 can support either ECC or non-ECC memory. Intel® Core™ i3/i5/i7 processors only support non-ECC memory.
24. The following applies to HP systems with Intel® 6th Gen and other future-generation processors on systems shipping with Windows 7, Windows 8, Windows 8.1 or Windows 10 Pro systems downgraded to Windows 7 Professional, Windows 8 Pro, or Windows 8.1: This version of Windows running with the processor or chipsets used in this system has limited support from Microsoft. For more information about Microsoft's support, please see Microsoft's Support Lifecycle FAQ at support.microsoft.com/lifecycle.
25. Starting weight; weight varies by configuration and components.
26. 3 year battery warranty on platforms with 3 year warranty only.
27. Not all configurations will qualify as an Ultrabook™.

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