

HP Pro x360 Fortis 11-inch G11 Notebook PC



Designed for reliability

Engineered for durability

Undergoes
19

MIL-STD 810H tests¹

120k
Hours

HP Total Test Process²

IP5x

Tested to protect against dust³



Metal-protected battery





HP Pro x360 Fortis 11-inch G11

Education



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The Journey to Better Learning

Digital Transformation of Schools



2019
Pre-Pandemic

PCs were shared and used for specific tasks



2020 - 2021
Pandemic

PCs were a means to connect while learning from home

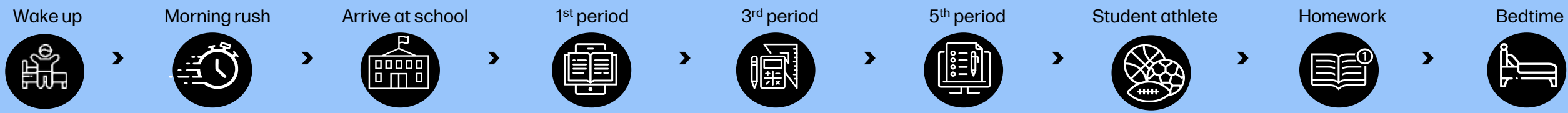


2022 - 2023
Endemic

PCs used throughout the school day for task-based learning



Day in the life of a K-12 student



Traditional teaching & learning

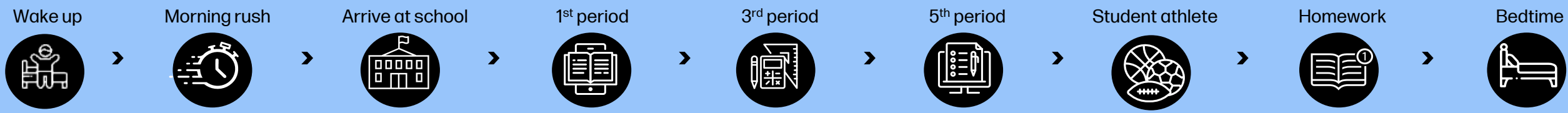
- Wake up:** Stuff backpack with textbooks, papers, water bottle, and *sometimes laptop*
- Arrive at school:** Arrives at school via school bus; Backpack in locker; Head to class with binder / laptop
- 1st period:** Teacher lecturing up front via Projector while student takes notes in binder
- 3rd period:** Prep for Math; Teacher lectures; Homework assigned on whiteboard
- 5th period:** Student takes paper-based assessment
- Student athlete:** Preview film via projector by Coach; Coach uses whiteboard to layout game plan
- Homework:** Partial device use; Partial pen/paper
- Bedtime:** Prepare for next day; Check hand-written notes, agendas, etc.

Digital first teaching & learning

- Wake up:** Up early to catch bus; *Only need to bring Laptop and peripherals*
- Arrive at school:** Previewing digitized material on bus; Head to class with laptop
- 1st period:** Join interactive instructional delivery app; Access digital content in LMS
- 3rd period:** Science digital project; Review Lab assignment; Record Lab; Annotate Lab notes w/ garage pen
- 5th period:** Take online assessment; Submit and receives instant feedback
- Student athlete:** Preview film prior to practice; Coach annotates game strategy
- Homework:** Preview digital material; Group work with classmates via Zoom
- Bedtime:** Prepare for next day; Check, calendar, email, etc.



Day in the life of teacher



Traditional teaching & learning

<ul style="list-style-type: none"> • Stuff rollie-cart with books, student work, gradebook, lunch, and sometimes laptop (with sleeve), and charger 	<ul style="list-style-type: none"> • Arrives at school before students, signs in main office • Completes her a.m. duty • Head to class with rollie-cart 	<ul style="list-style-type: none"> • Takes attendance • Teacher stands up front lecturing via Projector while student takes notes in binder 	<ul style="list-style-type: none"> • Attends planning session • Plans next weeks lessons • Partial device use • Partial pen/paper 	<ul style="list-style-type: none"> • Teaches class with students in smaller groups and has students work in stations 	<ul style="list-style-type: none"> • Attends face to face meeting with parent and other admin to discuss student progress 	<ul style="list-style-type: none"> • Grades student work by hand and provides feedback • Partial device use • Partial pen/paper 	<ul style="list-style-type: none"> • Prepare for next day • Check hand-written notes, agendas, etc.
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Digital first teaching & learning

<ul style="list-style-type: none"> • Most content and student work is digitized • Only need to bring Laptop and peripherals 	<ul style="list-style-type: none"> • Arrives at school, signs in main office • Staff communication is digitized and sent via email • Completes her a.m. duty 	<ul style="list-style-type: none"> • Takes attendance on PC • Uses laptop to deliver content and checks for understanding 	<ul style="list-style-type: none"> • Focus time on Lab application • Students submit work electronically and receive instant feedback 	<ul style="list-style-type: none"> • Group students based on data. • Assignments based on unique needs while s/he works with select students on different goals 	<ul style="list-style-type: none"> • Zoom parent conference. Teacher shares student data and work samples on student progress 	<ul style="list-style-type: none"> • Teacher curates video for lesson • Student work is digitized. • Grades instantly recorded 	<ul style="list-style-type: none"> • Prepare for next day • Check lessons, calendar, email, etc.
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Inspiring students every day

“ If a student’s device isn’t working properly, then the student isn’t learning, creating or collaborating ”



Learning from anywhere



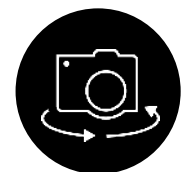
Versatility with tools to create



Power and tools for digital heavy content



Continuous all-day learning



Optional dual camera system.⁶



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Adapts to how you work



Write math problems
in **tablet mode**



Watch science videos
in **tent or stand mode**



Create projects
in **laptop mode**



Flexible 360° design



Read and edit in
book mode

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Power up and stay powered



Take on the day without worrying about recharging
With long battery life, the HP Pro x360 Fortis stays charged longer so you can keep learning



Get back to learning quickly
HP Fast Charge gives you 90% battery in 90 minutes.⁹



Battery protection
Help keep the battery protected from piercing with an **internal metal plate overlay**.

Keep the class on task

HP Classroom Manager 4.0^{12, 46}



Control how devices and apps are used in the classroom



Restrict access to specific websites



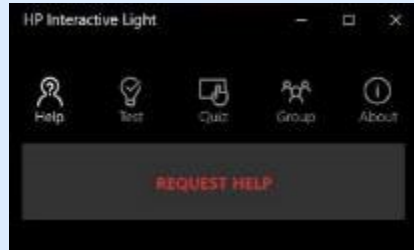
Run formative assessments for students



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Increase classroom interaction

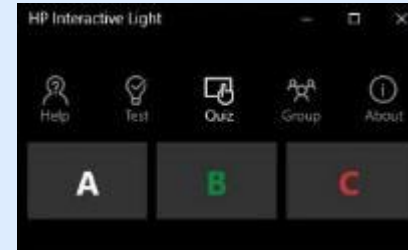
HP Interactive Light, with included software, gives you quick visual cues



Enable students to ask for help



Know when students finish a task





Conduct polls quickly



Organize group breakouts

Outside of the application, it will also perform the following:

-  White: connected to a network
-  Blinking red: <20% battery life





HP Pro x360 Fortis 11-inch G11

Fortis EDU durability experiences



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Durability for education



Reinforced corners, co-molded trim, and metal protected battery³



Reinforced hinges³



Durable keyboard³



Durable ports



Fanless design

Protect against bumps and drops



- Reinforced corners (drop tested¹³)
- Co-molded trim



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Flexible and strong hinges



Reinforced hinges help handle the stress of constant opening and closing,³ and dual barrel synchronized hinges that allow the unit lay flat.



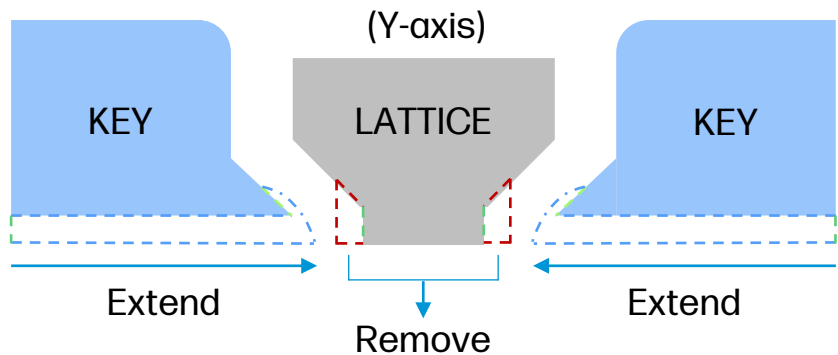
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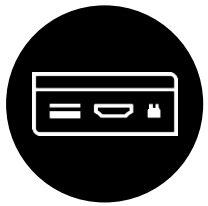
Pick resistant keyboard



Reduce risk of damage with the durably built keyboard that has pick resistant, full-skirted anchored keys. Coupled with an extra layer of protection under the keys, this sturdy keyboard resists spills up to 350ml (11.8 oz).³



Reinforced ports



The reinforced ports are designed to hold up to frequent plugging and unplugging over time and can withstand drops—helping reduce service costs.³

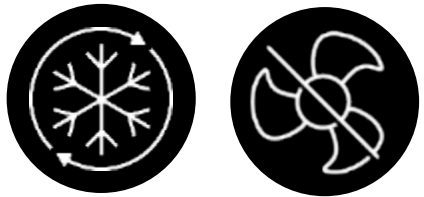


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Stay cool and quiet

With fanless design



Quiet performance can help increase focus and fanless design keeps device cool.



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HP Pro x360 Fortis 11-inch G11

Product Features



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Product highlights



HP Pro x360 Fortis 11-inch G11 Notebook PC



Equipped for blended learning

- Consume and create content wirelessly with improved Wi-Fi 6E wireless LAN.⁷
- Enable access almost anywhere with optional WWAN⁸ connectivity.
- Embedded eSIM¹¹ helps school IT better manage LTE data for education purposes only and manage SIM files more efficiently.
- Less lag time during videos and online assignments with latest Intel[®] processor.¹⁴
- The 360-degree hinge has five versatile use modes.
- Optional digital pen⁶ with an integrated water-resistant garage^{3,6} on the keyboard.
- Optional Auto-focus world-facing 5MP⁶ second camera in tablet mode.

Durability

- Resist key picking with the enhanced anchored skirt keyboard.³
- Three different drop tests for MIL-STD 810 testing.¹
- Metal plate on the battery to protect from puncture damage.
- Co-molded rubber trim absorbs shocks from accidental drops and bumps, and 122 cm drop test.¹³

IT friendly

- Recover from a BIOS attack or corruption without IT intervention and with little or no interruption with HP Sure Start¹⁵.
- Prevent cyber attacks in real-time with HP Sure Sense.¹⁶



HP Pro x360 Fortis 11-inch G11 Notebook PC

Built strong for the blended classroom.



Get solid performance, connectivity, and speed with the latest Intel®¹⁴ processor.



HP Fast Charge, providing up to 90% battery life in just 90 minutes of charging.⁹



Optional dual camera system.⁶ Record school projects with an auto-focus world-facing 5MP camera in tablet mode



Tough Corning® Gorilla® Glass 3



Durability inside and out

Stay productive in class or wherever learning happens with a durable HP Pro x360 Fortis that passed 19 MIL-STD 810 tests.¹ Designed with reinforced internal components like metal corners, Corning® Gorilla® Glass 3, and co-molded rubber trim with pick-resistant, full-skirted anchored keys.³



Versatility and connectivity

Take advantage of the x360 design and connectivity features of the HP Pro x360 Fortis. Take quick notes during class in tablet mode, consume information on-the-go in media mode, and create compelling content in laptop mode all while utilizing Wi-Fi® 6E⁷ or optional 4G LTE.⁸



IT friendly

Simplify security and manageability freeing up IT for more strategic initiatives with the HP Pro x360 Fortis protected by HP Wolf Security⁵⁰ and equipped with the easy-to-use HP Manageability Integration Kit.¹⁸



HP Pro Slim Rechargeable Pen

Keep the optional digital pen⁵ close at hand and recharge quickly with the integrated water-resistant garage^{3,6} on the keyboard. Using the pen enhances student engagement through natural writing on the x360 Fortis touchscreen.



HP recommends Windows 11²⁰

Learn anywhere without compromising on performance with Windows 11 SE²⁰ or Windows 11 Pro²⁰ and HP collaboration, security and connectivity technology.



PN: TBD
Starting ILP: TBD





Product walkaround



Dimensions
11.69 x 8.02 x .83 in

HP Pro x360 Fortis 11-inch G11 Notebook PC

Rugged design

Co-molded rubber contact points and strengthened corner design

Textured surface

Easy to handle, hiding fingerprints and minor dirt smudges

Ultra-light design

Starts from:
1.47kgs / 3.24lbs

Fast connections

Wi-fi®6E wireless LAN⁷ with MU-MIMO¹⁹
HP extended wireless LAN²¹ and WWAN CAT16⁸ w/ embedded eSIM¹¹

Powerful processing

Intel® N100 and N200 processors¹⁴

HD webcam

Dual digital mic + HD webcam (HP Privacy Camera)

AI-Based noise reduction¹⁰

Noise-filtering technology to enhance audio conferencing experience

Built to perform

Up to 16 GB RAM⁶ and 64GB eMMC¹, or up to 256GB SSD²³ storage options

Garaged pen

Optional HP Slim Rechargeable Pen⁵, stored in pen garage^{3,6} on unit

Durable keyboard

Enhanced pick-resistant anchored skirt keyboard, spill-resistant protection.³ Wipeable²⁴ with household wipes

2nd Webcam⁶

Optional 5MP autofocus world-facing webcam



Customized connections

HP Pro x360 Fortis 11-inch G11 Notebook PC

Barrel type
Power connector

RJ-45 port

Audio combo jack

USB-A 3.1 Gen 1



USB-C® 3.1 Gen 1

USB-A 3.1 Gen 1

HDMI 2.0b

Nano Security
Lock Slot





HP Pro x360 Fortis 11-inch G11

Beyond the box



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Tackling a world full of risks



75% increase in
cyberattacks
in schools²⁵



66% increase in
cyberattacks in
manufacturing



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Replacing fears with peace of mind

Secured
upon boot with
HP Sure Start¹⁵

Protected
while in use with
HP Sure Sense¹⁶



HP WOLF SECURITY



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Protected by HP Wolf Security¹⁷



HP WOLF SECURITY

Equipping you with PC resiliency and protection

Above the OS	HP Management Integration Kit ¹⁸
In the OS	HP Client Manager ²⁷ HP Sure Sense ¹⁶
Below the OS	HP BIOSphere ²⁸ HP Sure Start ¹⁵

Securing endpoints at every level
against evolving modern threats

HP Pro x360 Fortis
11-inch G11
Notebook PC



Ready to go in no time

With optional HP Services⁵³



HP Imaging & Software Configuration
Reduce strain on IT resources and deliver custom-configured devices regardless of physical location



HP Labeling and Tagging Services
Keep track of devices while securing PCs with BIOS-level identification and anti-theft security tags



Carbon Neutral Computing Services
Drive a low-carbon future by offsetting the end-to-end carbon footprint^{29, 52}



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Increase reliability, minimize downtime

With HP Services⁵³



HP Active Care⁵⁴

Keep devices working for
wherever work happens



HP SmartFriend Pro⁵⁵

Helpdesk support they need when
they need it



Accidental Damage Protection (ADP)³⁰

Covers repair or replacement
costs for accidents



Post Warranty Service

Extend hardware protection



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HP Device as a Service (DaaS)³¹

helps IT procure, deploy and manage devices



End-to-end device management
to implement, fix, secure, optimize, refresh & retire devices



Innovative hardware
to reimagine the learning experience



Embedded repair services
to offload time-consuming maintenance



Predictive analytics⁵¹
to predict and prevent issues



Flexible funding options³²
to optimize your unique budget



HP Manageability integration kit (MIK)¹⁸

Help speed up image creation and management of HP BIOS, security, hardware, software when managing devices through Microsoft SCCM



Speed up the basics of IT management

Reduce the number of steps to create, deploy, and manage images, BIOS, and system security so you can focus on business.



Protect data

Secure BIOS settings, set authentication and credentials requirements, enable Microsoft Device Guard, manage TPM firmware updates.



Manage software

Starting with HP Client Security, IT Admins can remotely manage features supported by the software.

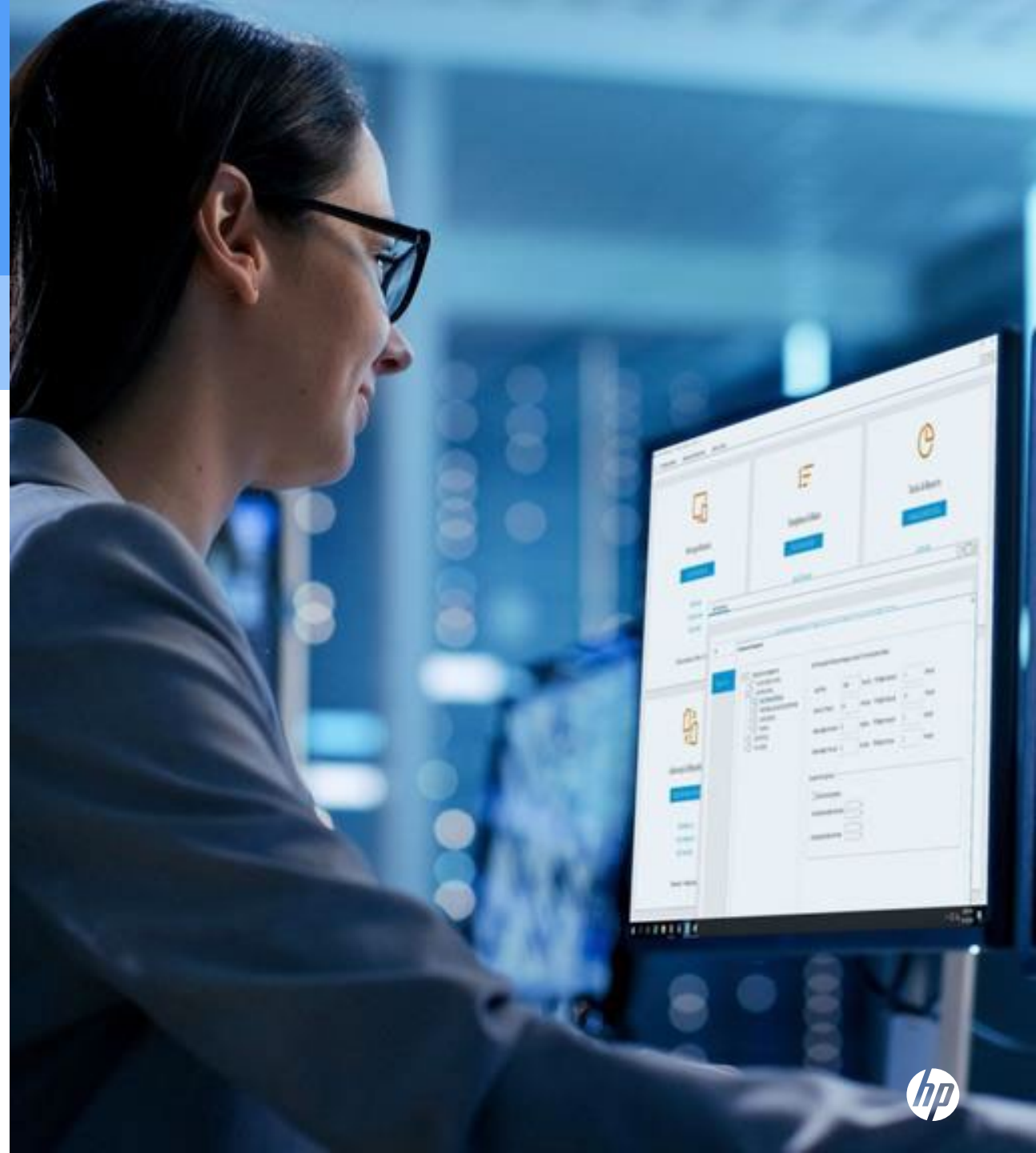


Simplifying operations

Unlock additional value from platform-specific features and manage those features from within Microsoft System Center Configuration Manager.



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Transform a new device into a classroom-ready state

with Windows Autopilot³³

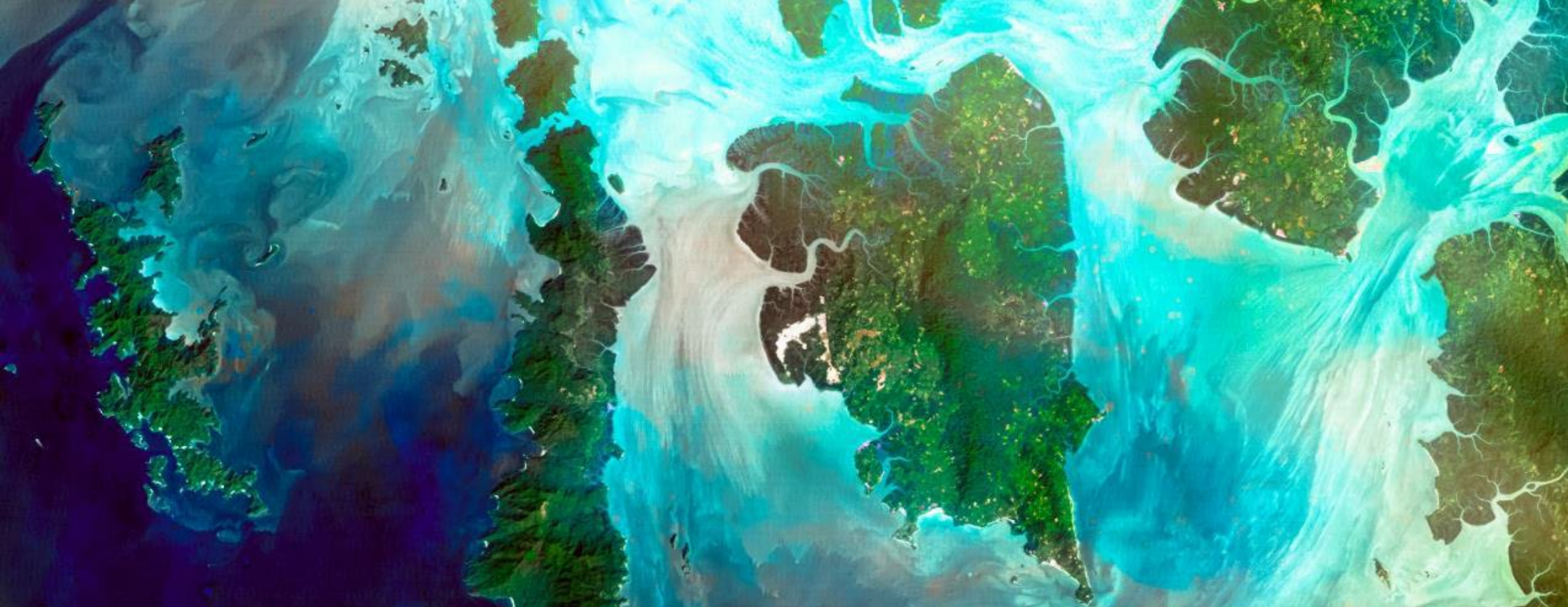
Easy deployment at scale
without having to touch the device



- 1 Partner registers devices with Windows Autopilot service
 - 2 ITDM configures enrollment profiles, settings, and apps - using Intune for EDU
 - 3 Windows devices are unboxed, turned on, and connected to the Internet
 - 4 Windows Autopilot Reset service automatically sets up devices with preconfigured settings
-  **The device is now classroom ready!**

Prerequisites

Must have Azure Active Directory & Intune for Education, all sold separately




HP Pro x360 Fortis 11-inch G11

Sustainability



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HP Fortis PCs Part of HP's world's most sustainable portfolio³⁴

Helping customers
& IT reach sustainability
goals.

100% of our PCs
launched in 2022 contain
recycled material

HP has diverted >18M
bottles of ocean-bound
plastic since 2019 in 277
products.



Help protect our shared future



Reduce by reusing

Keycaps contains **30% recycled plastic** from DVDs.



Environmentally friendly

Speaker box contains **ocean-bound plastic**³⁶



Responsibly sourced packaging

Outer box and packaging is **100% sustainably sourced**.³⁷



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Help protect our shared future



HP has the world's most sustainable PC portfolio³⁴



Pro x360 Fortis 11" G11

Before use	Speaker box contains ocean-bound plastic ³⁶	✓
	Keycaps contains 30% post-consumer recycled plastics (DVDs)	✓
	100% sustainably sourced or recycled packaging ³⁷	✓
	Bulk packaging	✓
During use	EPEAT® Gold Registered in 23 Countries ³⁸	
	ENERGY STAR® Rated	✓
	TCO Certified Gen9	✓
	Undergoes 19 MIL-STD 810 ¹ tested for durability	✓
	Sanitizable ²⁴	✓
After use	HP Planet Partners	✓
	HP Device Recovery ³⁹	✓





HP Pro x360 Fortis 11-inch G11

Portfolio









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Fortis portfolio



11" Fortis for business and education

14" Fortis for business and education

<p>HP Pro x360 Fortis 11" G11</p>	<p>HP x360 Fortis 11" G3 J Chromebook</p>	<p>HP Fortis 11" G9 Q Chromebook</p>	<p>HP Pro x360 Fortis 11" G9/G10</p>	<p>HP ProBook Fortis 14" G9/G10</p>	<p>HP Fortis 14" G10 Chromebook</p>
					
<p>Durability, flexibility and tools for collaboration</p>	<p>Rugged flexible design and Chrome simplicity</p>	<p>Built for a productive Chromebook experience with LTE</p>	<p>Connect from almost anywhere with optional digital inking & 4G LTE</p>	<p>Powerful large screen notebook with optional 4G LTE</p>	<p>Cloud-native PC with large screen with optional 4G LTE</p>



HP Pro x360 Fortis 11-inch G11 Notebook PC

Gen-to-gen comparison

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Component	HP Pro x360 Fortis 11-inch G9	HP Pro x360 Fortis 11-inch G11
ID/ Material	Plastic lid, keyboard deck and bottom cover; 360° opening angle Jet Black & Jellyfish Blue	Plastic lid, keyboard deck and bottom cover; 360° opening angle Jet Black & Emerald Green
Processors	Intel® Jasper Lake, Celeron DC & QC, Pentium processors ¹⁴	Intel® N100 and N200 processors ¹⁴
Dimension/Weight	29.7 x 20.37 x 2.12 cm; 11.69 x 8.02 x 0.83 in (Dimensions may vary by configuration) Starting at 1.47 kg; 3.24 lb (Weight will vary by configuration)	29.7 x 20.37 x 2.12 cm; 11.69 x 8.02 x 0.83 in Starting at 1.47 kg; 3.24 lb
Display options	11.6" diagonal HD (1366x768) BrightView, 250 nits, 45% NTSC, SVA eDP WLED-backlit, touch screen ²⁶ ; 11.6" diagonal HD (1366x768) BrightView, 250 nits, 50% NTSC, UWVA eDP WLED-backlit, touch screen ²⁶	11.6" diagonal HD (1366x768) BrightView, 250 nits, 45% NTSC, SVA eDP WLED-backlit, touch screen ²⁶ ; 11.6" diagonal HD (1366x768) BrightView, 250 nits, 50% NTSC, UWVA eDP WLED-backlit, touch screen ²⁶
Graphics	Integrated: Intel® UHD Graphics ⁴²	Integrated: Intel® UHD Graphics ⁴²
Memory	Up to 8 GB DDR4-3200 SDRAM onboard memory	Up to 16 GB DDR4-3200 SDRAM onboard memory
Storage	128 GB/ 256 GB PCIe® NVMe™ Value M.2 SSD ²³ ; 64GB eMMC (downloaded) ^{6,23}	128 GB 2230 PCIe® NVMe™ Value SSD/256 GB PCIe® NVMe™ Value M.2 SSD ²³ ; 64GB eMMC (downloaded) ^{6,23}
Keyboard & pad	Enhanced pick resistant anchored skirt keyboard, spill-resistant protection; HP Programmable key; Clickpad with multi-touch gesture support	Enhanced pick resistant anchored skirt keyboard, spill-resistant protection; HP Programmable key; Clickpad with multi-touch gesture support
I/O	2 SuperSpeed USB Type-A 5 Gbps signaling rate port; 1 SuperSpeed USB Type-C® 5 Gbps signaling rate port (USB Power Delivery, Alt-mode DisplayPort™ 1.2); 1 headphone/microphone combo; 1 HDMI 1.4b; 1 RJ-45; 1 DC-in jack Active Light; optional Pen Garage ⁶ & HP Slim Rechargeable Pen ⁶ (AES1.0; 21s, ~70min)	2 SuperSpeed USB Type-A 5 Gbps signaling rate port; 1 SuperSpeed USB Type-C® 5 Gbps signaling rate port (USB Power Delivery, Alt-mode DisplayPort™ 1.2); 1 headphone/microphone combo; 1 HDMI 1.4b; 1 RJ-45; 1 DC-in jack Active Light; optional Pen Garage ⁶ & HP Slim Rechargeable Pen ⁶ (AES1.0; 21s, ~70min)
Connectivity	WLAN: Intel® Wi-Fi 6 AX201 802.11ax (2x2) ⁴¹ and Bluetooth® 5 Combo, non-vPro™; Intel® 9560 802.11ac (2x2) and Bluetooth® 5 Combo, non-vPro™; WWAN: Intel® XMM 7360 LTE-Advanced Cat 9 ⁴¹	WLAN: Intel® AX211 Wi-Fi® 6E ⁷ and Bluetooth® 5.2 Combo, non-vPro™; Realtek 8852CE ax (2x2) ⁷ and Bluetooth® 5.3 Combo WWAN: Intel® XMM 7560 LTE-Advanced Pro Cat 16 ⁴¹
Audio & Camera	Dual stereo speakers, dual array microphone; 720p HD camera; Optional 5MP World-facing Wide Field of View 2nd Camera	Dual stereo speakers, dual array microphone; 720p HD camera; Optional 5MP World-facing Wide Field of View 2nd Camera
Battery & Adapters	3 cell Li-Polymer 42Whr, Long Life Battery ⁹ ; 65 W/45 W External AC power adapter; 45 W USB Type-C® adapter	3 cell Li-Polymer 42Whr, Long Life Battery ⁹ ; 65 W/45 W External AC power adapter; 45 W USB Type-C® adapter
Security hardware	Discrete TPM 2.0, K-Lock Slot ⁴³ , HP Privacy Camera on Primary Camera	Discrete TPM 2.0, K-Lock Slot ⁴³ , HP Privacy Camera on Primary Camera
Security software	HP Sure Start ¹⁵ , HP Sure Sense ¹⁶ , HP Easy Clean ⁴⁴ , HP BIOSphere ²⁸ , Absolute persistence module, HP Wolf Security for Business ¹⁷	HP Sure Start ¹⁵ , HP Sure Sense ¹⁶ , HP Easy Clean ⁴⁴ , HP BIOSphere ²⁸ , Absolute persistence module, HP Wolf Security for Business ¹⁷
Manageability	HP Smart Support ⁴⁵ , HP Image Assistant, HP Manageability Integration Kit (MIK) ¹¹ , HP Power Manager, HP Support Assistant ⁴⁵	HP Smart Support ⁴⁵ , HP Image Assistant, HP Manageability Integration Kit (MIK) ¹¹ , HP Power Manager, HP Support Assistant ⁴⁵
Productivity software	HP School Pack ⁴⁶ , HP Classroom Manager ^{12,46} , HP Connection Optimizer, HP Interactive Light, HP Mac Address Manager, myHP ⁴⁵	HP School Pack ⁴⁶ , HP Classroom Manager ^{12,46} , HP Connection Optimizer, HP Interactive Light, HP Mac Address Manager, myHP ⁴⁵
Durability	19 MIL-STD-810 Tests ¹ , HP Total Test Process ² , Sanitizable with household wipes up to 1000 cycles of disinfection ²⁴ , IP5x, Tumble Test with 200 cycles	19 MIL-STD-810 Tests ¹ , HP Total Test Process ² , Sanitizable with household wipes up to 1000 cycles of disinfection ²⁴ , IP5x, Tumble Test with 200 cycles
Serviceability	Self-capturing screws on D-cover; IT replaceable: SSD, WLAN, WWAN ⁹ , WWAN SIM ⁴⁰	Self-capturing screws on D-cover; IT replaceable: SSD, WLAN, WWAN SIM ⁴⁰

HP Pro x360 Fortis 11-inch G11 ecosystem

Displays and peripherals sold separately:



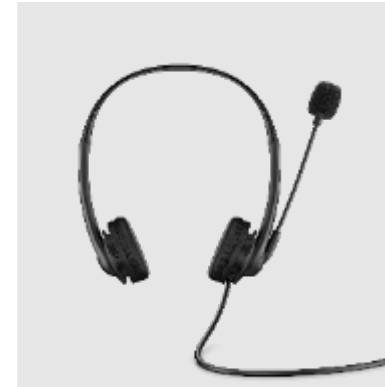
HP USB-C G5
Dock



HP Nano Keyed
Cable Lock



HP Wired 320M
Mouse



HP USB G2 Stereo
Headset



HP Mobility
11.6 Case



Thank you



Disclaimers

1. MIL STD 810H testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
2. HP Total Test Process testing is not a guarantee of future performance under these test conditions. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
3. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
4. VDC Research July 2022
5. Pen sold separately. Optional feature that can be configured at time of purchase or purchased separately.
6. Optional feature that must be configured at purchase.
7. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
8. WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.
9. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode, when used with the power adapter provided with the notebook, and no external devices are connected. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
10. Requires the myHP application and Windows OS.
11. Optional feature that must be configured at the time of purchase and requires external SIM card, not included and must be purchased separately.
12. HP Classroom Manager for Teachers is required and sold separately for control and device locking from the teacher's Windows desktop console; no locking and control functionality originates from HP Classroom Manager for Student. Control and device locking originate from the teacher's Windows desktop console.
13. 122 cm test on plywood and 76 cm test on concrete. Drop test is not a guarantee of future performance under these test conditions. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
14. 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, branding and/or naming is not a measurement of higher performance.
15. HP Sure Start is available on select HP PCs with Intel processors. See product specifications for availability
16. HP Sure Sense is available on select HP PCs and is not available with Windows 10 Home.
17. HP Wolf Security for Business requires Windows 10 and higher, includes various HP security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features.
18. HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
19. Multiple-Input Multiple-Output (MU-MIMO) is a wireless technology that uses multiple transmitters and receivers to enhance data transfer. MIMO requires a MU-MIMO router, sold separately.
20. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
21. Based on internal testing vs. previous generation product with 802.11ac wireless LAN module.
23. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.
24. See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper: <https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA77610ENW>.
25. CSO Education Sector Hounded by Cyberattacks in 2021 - <https://www.csoonline.com/article/3647760/education-sector-hounded-by-cyberattacks-in-2021.html#:~:text=Education%20and%20research%20were%20the%20top%20targets%20for,in%20businesses%20and%20education%20to%20work%20from%20home>
26. Touch will reduce actual brightness
27. HP Client Security Manager requires Windows and is available on the select HP Elite and Pro PCs.
28. HP BIOSphere requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.
29. There are two offset options available: HP's Carbon Neutral to the Door option covers carbon offsetting of material extraction, component and product manufacturing, and product logistics. HP's Lifecycle option covers everything in the Carbon Neutral to the Door option plus device usage based on a four-year lifecycle for commercial HP notebooks and mobile workstations, and a five-year lifecycle for commercial HP desktops, displays, and workstations, and end-of-service30. Eligibility for purchase of the Accidental Damage Protection service feature requires the product to be covered by a factory warranty or a warranty extension service with coverage duration equal to or longer than the Accidental Damage Protection service. The Accidental Damage Protection service feature provides protection for operational or mechanical failure caused by an accident from handling which occurs in the course of the normal intended use of the product.
31. HP DaaS is sold separately and includes hardware, repair services, and analytics components and may include financing. HP DaaS requirements may vary by region or by Authorized HP DaaS Service Partner. Please contact your local HP Representative or Authorized DaaS Partner for specific details in your location. HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
32. Payment solutions may be available through HP Integrated Financial Solutions endorsed finance partners, subject to country location, credit approval, and other restrictions. Not all services or offers may be available and not all customers may qualify. HP Integrated Financial Solutions' partners may change or cancel program at any time without notice.

33. Windows Autopilot is sold separately. AutoPilot prerequisites include Azure AD Premium P1 or P2 and Microsoft Intune or other MDM service to manage your devices. Some HP security features must be provisioned separately using the HP Manageability Integration Kit. Contact your HP account representative or authorized HP reseller for more information
 34. Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for EPEAT® Gold according to IEEE 16801-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
 35. >18M bottles of ocean-bound plastic diverted since 2019 in 277 products
 36. Speaker enclosure and battery housing contain 5% ocean bound plastic by weight.
 37. 100% outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic.
 38. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information
 39. HP Services are sold separately. HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
 40. eSIM is not user accessible without WWAN configuration.
 41. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 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 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.
 42. Shared video memory (UMA) uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs.
 43. Lock must be purchased separately.
 44. HP Easy Clean requires Windows and will disable the keyboard, display and touchpad only. Ports are not disabled.
 45. HP Support Assistant requires Windows and Internet Access
 46. Some apps require purchase.
 47. 2020 Cyberthreat Defense Report, CyberEdge Group, LLC.
 48. Verizon 2021 Data Breach Investigations Report | May 13, 2021
 49. NTT Global Threat Intelligence Report |
 50. Security features vary by platform, please see product data sheet for details
 51. Predictive Analytics requires HP Tech Pulse. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements, please visit <http://www.hpdaas.com/requirements>. Purchase of any HP TechPulse-enabled service necessitates enabling software to run on each device. HP Services Scan is provided thru Windows Update and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. To disable this feature, please follow the instructions at <http://www.hpdaas.com/requirements>.
 52. Lifecycle assessments (LCA) are validated by a third-party to conform to ISO 14040 and ISO 14044 and are used by HP to understand the total carbon footprint for HP personal systems products. Using this data, along with the information unique to each customer (e.g., product ship-to location, product portfolio), we calculate the total carbon emissions for a customer's fleet. HP then purchases and retires carbon offsets, procured through Climate Impact Partners who certifies HP's Carbon Neutral Computing Services in accordance with its <https://www.carbonneutral.com/the-carbonneutral-protocol> (<https://www.carbonneutral.com/the-carbonneutral-protocol>). Please review <https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c08430102> for complete details (<https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c08430102>).
 53. HP Services are sold separately. HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service, or t
 54. HP Active Care requires HP TechPulse to be installed. Customer must manually download the HP TechPulse Windows app at www.hpdaas.com/software or provide consent at the time of your hardware's first boot, which enables HP to install HP TechPulse to collect information related to the device. HP Services Scan is provided on select HP commercial devices thru Windows Update and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. To disable this feature, please follow the instructions at <http://www.hpdaas.com/requirements>. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirement
 55. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
- he HP Limited Warranty provided with your HP Product.