HP Elite mt645 G8 Mobile Thin Client

Our ultimate mobile solution for virtualization

Provide your teams with an exceptional mobile cloud computing experience. This cutting-edge HP mt645 Mobile Thin Client optimizes collaboration, multitasking, and security for your Citrix, VMware, Microsoft, and other virtualized environments.

Unleash maximum performance

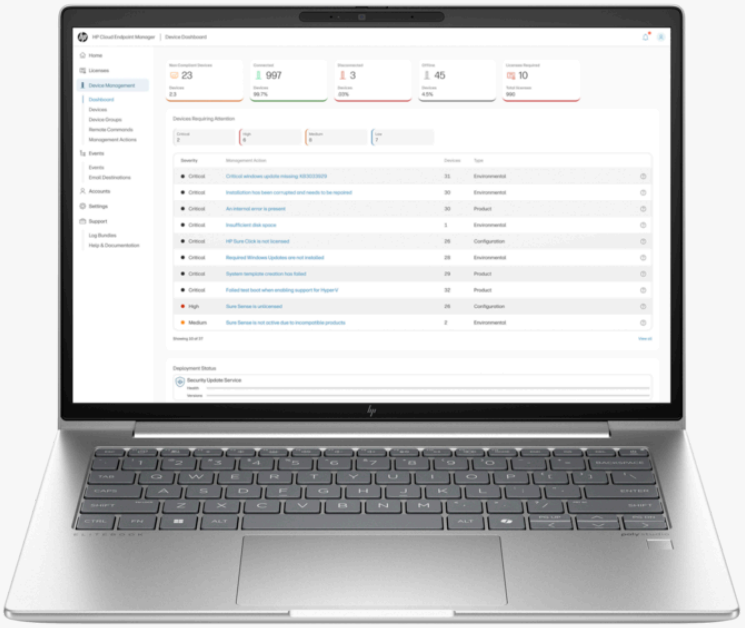
Tackle heavy workloads with a bright 16:10 aspect ratio display, DDR5 memory, and a powerful AMD Ryzen™ CPU.[1,2]

Enterprise-grade security

Reinforce security with an end-to-end solution that keeps data secure and fleet management easy.

Flexible OS options

Maximize return on investment with a long life cycle and enable easy fleet management with a choice of OS.



*Product image may differ from actual product

Sustainability in action

Designed with purpose

The ENERGY STAR® certified HP Elite mt645 Mobile Thin Client contains at least 50 percent post-consumer recycled plastic in the keycaps[8], and comes in packaging with certified or recycled sources of paper.[9,10]

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Featuring

Unleash productivity for hybrid workers
Tackle heavy workloads with a powerful AMD Ryzen™ processor,[1,2] and next-gen DDR5 memory. See more without scrolling thanks to a bright, beautiful 16:10 aspect ratio screen and present yourself clearly with a 5MP camera.[3]

Maximize user uptime with enterprise-grade security
Deliver a secure endpoint and protect your fleet with HP Wolf Security.[4] Reduce IT tickets with HP Sure Start[5] self-healing BIOS, block the display from prying eyes with HP Sure View[6], and prevent ransomware with read-only OS options.

Flexible OS options to meet your organization's needs
Get the most of your return on investment with a long life cycle and enable easy fleet management with a choice of Windows IoT, HP ThinPro[7], IGEL OS, or your own custom software image, installed at factory.

Designed with purpose
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Remarkable power
Amplify productivity with a powerful and reliable AMD Ryzen™ 7000 series processor[1,2] and up to 16GB DDR5 memory.[3] Get up and running quickly with this future-ready combination that delivers long battery life.

Experience refined viewing on an exceptional display.
Push the limits of performance with this 14-inch display, featuring a 16:10 aspect ratio with narrow bezels and up to 1000 nits of brightness.[3,11]

Present professionally–from anywhere
Look your best during conference calls in varied environments with a 5MP camera.[3] This future-ready advanced-technology solution features temporal noise reduction so you can keep a polished look in low light conditions.

Collaborate seamlessly
Enable effective collaboration for a robust and productive meeting experience[12,13] with support for Zoom, Microsoft Teams, and more, dual speakers with Audio by Poly Studio, and a 5MP[3] or HD camera

Designed for comfort
Redesigned for smooth functionality, this compact and lightweight HP Elite mt645 features an enlarged keyboard and touchpad. Styled with newly rounded edges and a finger recess on the lid makes it easy to handle and open for added ease-of-use.

Stay connected anywhere
Wired or wireless, this HP Elite mt645 offers varied connection options to suit your workstyle and workspace. Stay wired with an RJ-45 port and choose from optional 4G LTE[14] and Wi-Fi 6E[15] options with Bluetooth® 5.3 wireless card.

Choose the best display for your environment
Select from 300 nit, 400 nit, or 1000 nit levels of brightness and optimize your mobile thin client display to your typical lighting conditions and usage.[11]

Built for the modern workspace
Create a more modern, updated workspace by enabling additional ports and configuring your HP Elite mt645 Mobile Thin Client to work with a USB-C® docking display or docking station.[16]

HP Smart Card Reader and NFC technology
Get an additional layer of security with an HP Smart Card Reader[16] and Near Field Communications. Support regulated industries by enabling seamless and secure communication between smart cards and devices without the need for physical contact.

Reduce total cost of ownership
Get the most out of your computing investment with the simplified management of the HP mt645 Mobile Thin Client. Help extend the life of your fleet and reduce the total cost of ownership with high reliability and long product lifecycles.

Robust data security
Keep valuable data and apps secure, especially within regulated industries, with a mobile thin client solution that doesn't allow information storage on the endpoint. Help protect from threats with a read-only OS for an ultra-secure endpoint.

HP Cloud Endpoint Manager
Easily deploy, update, and manage your growing fleet of HP Elite mt645 Mobile Thin Clients with HP Cloud Endpoint Manager.[17] Save time and money with system updates, policy-driven management, and real-time monitoring through the cloud.

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Technical specifications

Available Operating Systems	Windows 10 IoT Enterprise for Thin Clients[1] HP ThinPro 8.1[9] HP Smart Zero Core[9] IGEL OS 12[9] IGEL OS 11[9] FreeDOS Windows 11 IoT Enterprise[1]
Processor family	AMD Ryzen™ 3 processor AMD Ryzen™ 5 processor
Available Processors[2,3]	AMD Ryzen™ 5 7535U with Radeon™ Graphics (2.9 GHz base clock, up to 4.5 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads); AMD Ryzen™ 3 7335U with Radeon™ Graphics (3.0 GHz base clock, up to 4.3 GHz max boost clock, 8 MB L3 cache, 4 cores, 8 threads)
Maximum memory	16 GB DDR5-4800 MHz RAM (1 x 16 GB); 16 GB DDR5-4800 MHz RAM (2 x 8 GB); (Transfer rates up to 4800 MT/s.); [4] Dual channel support.
Memory slots	2 SODIMM
Internal storage	256 GB PCIe® NVMe™ Value M.2 SSD[5]
Display size (diagonal, metric)	35.6 cm (14")
Display[12,13,14,15,16]	35.6 cm (14") diagonal, WUXGA (1920 x 1200), WLED, UWVA, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), WLED, UWVA, anti-glare, Low Blue Light, 400 nits, low power, 100% sRGB; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), WLED, UWVA, anti-glare, Low Blue Light, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), WLED, touch, UWVA, anti-glare, 300 nits, 45% NTSC
Available Graphics	Integrated: AMD Radeon™ Graphics (UMA: Support HDMI 2.1)
Audio	Audio by Poly Studio, dual stereo speakers with discrete amplifiers, integrated dual array microphones
Ports and connectors	2 USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate (charging); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1; 1 headphone/microphone combo; 1 security lock slot; 1 smart card reader; 1 RJ-45 Ethernet port[10,45] ; (HDMI cable sold separately.); Optional ports: 1 External Nano SIM slot for WWAN; 1 Smartcard reader (optional)[21]
Input devices	HP Standard Keyboard – spill-resistant, optional backlit keyboard with DuraKeys[11]; Clickpad with multi-touch gesture support; Microsoft Precision Touchpad with default gesture support; Hall sensor; Thermal sensor; HP Tamper Lock[20]; Ambient light sensor
Communications	LAN: Realtek RTL8111EP 10/100/1000 GbE NIC; Realtek RTL8111HSH-CG 10/100/1000 GbE NIC[8] ; WLAN: Realtek Wi-Fi 6E RTL8852CE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card[6] ; WWAN: HP 4G LTE Advanced Pro Cat 16 WWAN eSIM[7] ; NFC Mirage WNC XRAV-1
Camera	IR Camera (select models); 5 MP camera; FHD camera (select models) [12]
Software	HP Auto Logon; HP System Information; TTWin; CyberLink Media Suite; HP Connection OptimizerHP Connection Optimizer requires Windows 10 and Windows 11.; HEVC codec
Security management	Windows Hello Enhanced Slgn-in Security (ESS) Enable; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP TPM Configuration Utility; HP Platform Certificate; HP Sure Start[31]; HP Tamper Lock[20]
Fingerprint reader	Fingerprint reader (select models)

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Management features	HP Device Manager; HP Easy Shell[25]; HP ThinUpdate; HP USB Port Manager; HP Write Manager; Microsoft System Center Configuration Manager
Memory card device	1 smart card reader
Power	65 W USB Type-C® adapter; 65 W USB Type-C® halogen-free adapter[18]
Battery type	HP Long Life 3-cell, 56 Wh polymer; HP Long Life 3-cell, 48 Wh polymer[17,19]; Battery is internal and not replaceable by customer. Serviceable by warranty. Fast charging 50% in 30 minutes.
Dimensions	31.86 x 22.43 x 1.09 cm (front); 31.86 x 22.43 x 1.7 cm (rear); (Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends.)
Weight	Starting at 1.39 kg; (Weight will vary by configuration. Does not include power adapter.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available; EPEAT® Gold registered in the U.S.[37]
Energy star certified	ENERGY STAR® certified
Certification and compliance	GS Mark; CSA/UL 62368-1; FCC/ICES/CISPR/VCCI; CE Marking; China CCC/SRRC; Taiwan BSMI/NCC; Korea KCC/KC/KES; Ukraine NSoC/TEC; EAEU Compliance; Saudi Arabian Compliance; WW RoHS
Sustainable impact specifications	Low halogen[26]
TCO certified	TCO Certified, generation 9[63]

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Footnotes

Messaging Footnotes

[11] Actual brightness will be lower with Sure View or touchscreen. All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[1] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
[2] Features and software that require an NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.
[3] Optional feature that must be configured at the time of purchase.
[4] HP Wolf Security for Business requires Windows 10 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
[5] HP Sure Start is available on select HP devices. See product specifications for availability.
[6] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
[7] HP ThinPro 8.1 OS is an optional feature that may be configured at purchase or may be purchased separately. Please see datasheet for minimum system requirements - https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=4AA7-8412ENW . HP will provide support and available updates through April 2027.
[8] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[9] 100 percent outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100 percent recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic.
[10] 100 percent of all paper-based packaging for PCs and displays have been derived from recycled and/or certified sustainable sources.
[12] Internet access required and not included.
[13] Microphone, camera, speakers, Zoom and Microsoft Teams license required and sold separately.
[14] WWAN not available with HP ThinPro OS. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
[15] 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. Available on HP ThinPro OS only.
[16] HP Smart Card Reader is an optional feature that must be configured at the time of purchase.
[17] Cloud Endpoint Manager requires Windows 10 IoT Enterprise LTSC 2019 or later or HP ThinPro 8.0 Operating System or later on endpoint and Internet access. Planned availability for Summer 2024. Visit https://www.hp.com/us-en/solutions/cloud-computing/thin-client-software.html for Terms of Service datasheet, feature listings and configuration requirements as they become available.

Specification Footnotes

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. 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 .
[2] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
[3] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[4] Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
[5] 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.
[6] Wi-Fi 6E requires a Wi-Fi 6E router, and Windows 11, 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.
[7] WWAN module is an optional feature, requires factory configuration and 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, in all regions.
[8] The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
[9] Not all features are available with HP ThinPro, Smart Zero Core, IGEL and No OS.
[10] USB 20Gbps speed is not available with Thunderbolt™ 4.
[11] Backlit keyboard is an optional feature.
[12] WUXGA/FHD resolution content required to view WUXGA/FHD resolution images.
[13] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
[14] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
[15] Actual brightness will be lower with touchscreen or Sure View.

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Footnotes

Specification Footnotes

[16] All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[17] Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
[18] Availability may vary by country.
[19] Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
[20] HP Tamper Lock must be enabled by the customer or your administrator.
[21] Gigabit-class 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload, and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
[25] HP Easy Shell is currently available on Win10 IOT 21H2.
[26] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
[31] HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
[36] HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
[37] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
[63] TCO Certified is an ISO 14024 Type 1 sustainability label for IT products. Compliance with all criteria is independently verified.

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