Data sheet

HP Elite mt645 G7 Mobile Thin Client

Experience exceptional cloud productivity and performance

Bring power and performance to your hybrid workforce with the beautifully designed HP Elite mt645 Mobile Thin Client. The fast, efficient AMD Ryzen™ processor[1] combined with enterprise-level security and flexible manageability[2] elevate your day-to-day.

*Product image may differ from actual product

Powered for hybrid cloud work

- Effectively work in the office or remotely with advanced networking options and premium features. Get long-term productivity and tackle heavy workloads with the AMD Ryzen™ 5000 series processor[2] and varied connectivity options.

Multi-layered security features

- Get peace-of-mind with premium features that help protect your device from the BIOS[3] to the browser. Designed for hybrid environments with firmware TPM 2.0 hardware-based encryption keys[4] and other versatile security options.

Elegant design. Built to last

- Durably designed with a refined aesthetic, carry this striking mobile thin client with confidence. The sturdy chassis can withstand daily wear and tear and undergoes MIL-STD testing.[5] Keep it clean with common household cleaning wipes.[6]

- Easily deploy, update, and manage your growing fleet of HP Elite mt645 Mobile Thin Clients with HP Cloud Endpoint Manager which features policy-driven management, real-time monitoring and alerts, and flexible deployment in the cloud or on-prem.[2]

- Built for optimal performance, the stable PCIe x4 NVMe SSD with up to 256GB[7] provides highly responsive boot-up. This latest technology in storage quickly loads your operating system and apps—so you can maintain focus on productivity.

- Wired or wireless, this HP Elite mt645 Mobile Thin Client offers varied connection options to suit your workstyle and workspace. Get a standard RJ-45 port and Bluetooth 5.2 and choose optional Wi-Fi 6[8] and 4G LTE[9]—no dongles needed.

- Deliver a secure and easy user experience for IT and end users. The Linux®-based HP ThinPro 8.0 OS[10] features advanced multi-level security and a simple UI, supports remote device management and multiple cloud computing and collaboration tools.

- Firmware attacks can completely devastate your device. Stay protected with HP Sure Start Gen7[3] with Runtime Intrusion Detection, the self-healing BIOS that automatically recovers itself from attacks or corruption.

- Carry with confidence. Durably crafted with a combination of lightness and strength in a sleek design, so you can easily transport your mobile thin client wherever the workday takes you.

- Stay productive throughout your day with long battery life. With two options, you can choose the right battery for your business needs.

- Instantly block prying eyes' ability to view your screen with optional HP Sure View Reflect[11] that makes your screen unreadable from the side and includes low blue light to help ease eye strain.

- Easily engage others and share screen content with the 180-degree true lay-flat hinge and a large screen featuring 88% screen-to-body ratio.[12]

- Make the most of your mobile thin client with a powerful, reliable AMD Ryzen™ 5000 series processor[1] and up to 16GB DDR4 memory. This high-performance combination drives multiple displays and enables effective multi-tasking—amplifying productivity.

- Require a supervisor password to be used to unlock a device anytime tamper detection sensors located on the bottom cover of the mobile thin client and on internal storage are triggered with optional HP Tamper Lock.[13]

- Get an additional layer of security using the HP Smart Card Reader.[14] Just insert your smart card and enter your username and password to help protect from password-based attacks.

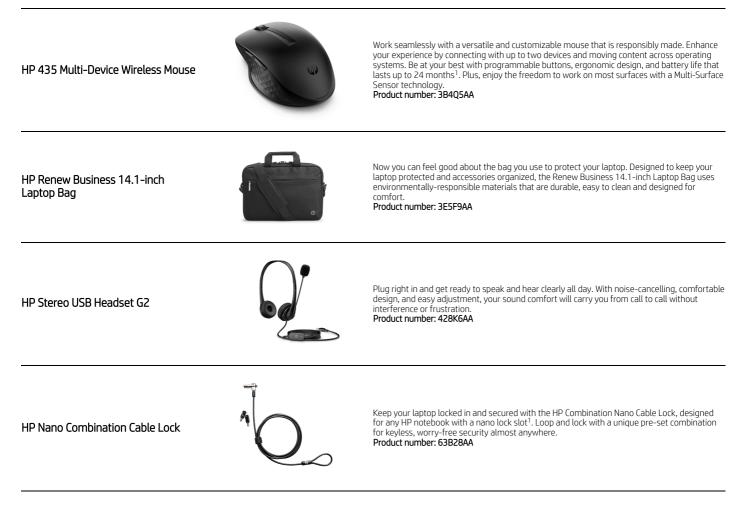# HP Elite mt645 G7 Mobile Thin Client Specifications Table

*Product image may differ from actual product

Available Operating Systems	Windows 10 IoT Enterprise for Thin Clients HP ThinPro[1] HP Smart Zero Core[1] FreeDOS
Processor family[2]	AMD Ryzen™ processor
Available Processors[2,3,4]	AMD Ryzen™ 5 5625U with AMD Radeon™ Graphics (2.3 GHz base clock, up to 4.3 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads); AMD Ryzen™ 3 5425U with AMD Radeon™ Graphics (2.7 GHz base clock, up to 4.1 GHz max boost clock, 8 MB L3 cache, 4 cores, 8 threads)
Browser	Mozilla Firefox; Mozilla Firefox (models with HP ThinPro); Microsoft Edge; Microsoft Edge (models with Windows)
Chipset	SoC
Maximum memory	16 GB DDR4-3200 SDRAM [5,30,37] Both slots are accessible/upgradeable by IT or self-maintainers only. Supports dual channel memory.
Memory slots	2 SODIMM
Internal storage	128 GB up to 256 GB PCIe® NVMe™ Value M.2 SSD[6]
Display size (diagonal, metric)	35.6 cm (14")
Display	35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen; 35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, 100% sRGB [17,18, 19, 20, 21]
Available Graphics	Integrated: AMD Radeon™ Graphics[14] (Support HD decode, DX12, HDMI 2.1b.)
Protocols	Citrix® ICA; Microsoft RFX/RDP; VMware Horizon® View™ through RDP/PCoIP, and Blast Extreme (Protocols are dependent on operating system installed.); Azure Virtual Desktop add-on; Microsoft 365
Audio	Dual stereo speakers, dual array microphones
Ports and Connectors	1 AC power; 1 headphone/microphone combo; 1 RJ-45; 1 HDMI 2.0; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 4 SuperSpeed USB Type-A 5Gbps signaling rate (charging)[12] ; (HDMI cable sold separately.); Optional Ports: 1 External Nano SIM slot for WWAN; 1 Smartcard reader (optional)[13,36]
Input devices	HP Premium Keyboard – spill-resistant with optional backlit keyboard[15]; Clickpad with multi-touch gesture support;
Communications	Realtek RTL8111HSH GbE; Realtek RTL8111FPH GbE [11]; Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.2 combo; Qualcomm® Wi-Fi 6 WCN6856 (2x2) and Bluetooth® 5.2 combo [7,8,9,10]; Intel® XMM™ 7560 LTE Advanced Pro Cat 16 ; NFC Mirage WNC XRAV-1
Camera	IR Camera (select models); 720p HD camera with temporal noise reduction (select models) [16]
Software	HP Connection Optimizer; HP Hotkey Support; HP Easy Shell; HP ThinUpdate; HP Easy Update[33,33,34]
Security management	USB enable/disable (via BIOS); Power-on password (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; HP Secure Erase; BIOS Update via Network; HP BIOSphere Gen6; HP Sure Start Gen7; HP Tamper Lock; HP DriveLock and Automatic DriveLock;[23,24,27]
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Cloud Endpoint Manager; HP Write Filter; HP BIOS Configuration Utility; HP Device Manager[22]
Power	HP Smart 65 W External AC power adapter; HP Smart 45 W External AC power adapter; HP Smart 45 W External AC USB Type-C® power adapter; HP Smart 65 W External AC USB Type-C® power adapter[29]
Battery type	HP Long Life 3-cell, 42.75 Wh polymer; HP Long Life 3-cell, 51.3 Wh polymer[28]
Dimensions	32.19 x 21.39 x 1.99 cm
Weight	Starting at 1.38 kg
Ecolabels	EPEAT® registered configurations available[31]
Energy star certified (series fixed)	ENERGY STAR® certified
Certification and compliance	CCC; CECP; GS Mark
Sustainable impact specifications	Low Halogen[32]
Warranty	3 year (3/3/0) limited warranty includes 3 years of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)

HP 435 Multi-Device Wireless Mouse

Work seamlessly with a versatile and customizable mouse that is responsibly made. Enhance your experience by connecting with up to two devices and moving content across operating systems. Be at your best with programmable buttons, ergonomic design, and battery life that lasts up to 24 months[1]. Plus, enjoy the freedom to work on most surfaces with a Multi-Surface Sensor technology.
Product number: 3B4Q5AA

HP Renew Business 14.1-inch Laptop Bag

Now you can feel good about the bag you use to protect your laptop. Designed to keep your laptop protected and accessories organized, the Renew Business 14.1-inch Laptop Bag uses environmentally-responsible materials that are durable, easy to clean and designed for comfort.
Product number: 3E5F9AA

HP Stereo USB Headset G2

Plug right in and get ready to speak and hear clearly all day. With noise-cancelling, comfortable design, and easy adjustment, your sound comfort will carry you from call to call without interference or frustration.
Product number: 428K6AA

HP Nano Combination Cable Lock

Keep your laptop locked in and secured with the HP Combination Nano Cable Lock, designed for any HP notebook with a nano lock slot[1]. Loop and lock with a unique pre-set combination for keyless, worry-free security almost anywhere.
Product number: 63B28AA

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Messaging Footnotes

[1] 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. AMD's numbering is not a measurement of clock speed.

[2] Coming soon: Select HP Mobile Thin Clients are pre-loaded with HP Cloud Endpoint Manager (CEM) and includes Tech Preview until full availability. CEM supports endpoints running Windows 10 IoT 2016 or later or ThinPro 7.2 SP11 or later. CEM term is a 12-month period beginning after device enrollment after full availability. A new license will be required to continue accessing all features after the 12-month term. For complete details, configuration requirements, and feature listings as they become available, see datasheet at the following URL: https://www8.hp.com/h20195/v2/GetDocument.aspx?hdocname=c08045808 .

[3] HP Sure Start Gen 7 is available on select HP devices. See product specifications for availability.

[4] TPM 2.0 is limited on HP ThinPro/HP Smart Zero, and functionality is dependent upon use of a customer-enabled application that can locate the TPM chip.

[5] MIL-STD 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.

[6] 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.

[7] For storage drives, GB = 1 billion bytes. Actual formatted capacity is less.

[8] Wi-Fi 6 is an optional feature that must be configured at the time of purchase. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. Wi-Fi 6E not available on this product.

[9] 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.

[10] HP ThinPro 8.0 OS is an optional feature that may be configured at purchase or sold separately. Please see datasheet for minimum system requirements. HP will provide support and available updates through April 2025.

[11] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at the time of purchase and is designed to function in landscape orientation.

[12] Percent of active plus non-active viewing area to active viewing area plus border. Measured with lid vertical to the desk.

[13] HP Tamper Lock is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.

[14] HP Smart Card Reader is an optional feature that must be configured at the time of purchase.

Technical Specifications Footnotes

[1] Not all features are available on ThinPro and Smart Zero.

[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] Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

[4] AMD Max Boost frequency performance varies depending on hardware, software and overall system configuration.

[5] 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.

[6] Only functions at the Gen3x4 capacity with AMD Ryzen Barcelo processor.

[7] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.

[8] Wi-fi- 6E is not available with thin Clients. Customers will only get Wi-fi 6.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.

[9] 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.

[10] WWAN is not available on ThinPro OS and Smart Zero Core.

[11] 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.

[12] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

[13] SIM slot is not user accessible without WWAN configuration.

[14] HD content required to view HD images.

[15] Backlit keyboard is an optional feature.

[16] IR camera is only available with windows 10 IoT.

[17] 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.

[18] Actual brightness will be lower with touchscreen or Sure View.

[19] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

[20] Touchscreen display not available with ThinPro and Smart Zero Core.

[21] HD content required to view HD images.

[22] Select HP mt645 Mobile Thin Clients are pre-loaded with HP Cloud Endpoint Manager for a 12-month term, starting at device enrollment. CEM supports endpoints running Windows 10 IoT 2016 or later or ThinPro 7.2 SP8 or later. At the end of the 12-month period, a new license will be required to continue accessing all features. For complete details, configuration requirements, and feature listings as they become available, see datasheet at the following URL: https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c08045808 .

[23] HP BIOSphere Gen6 features may vary depending on the platform and configuration.

[24] HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher.

[25] HP Fingerprint sensor is an optional feature that must be configured at purchase.

[26] HP Finger print Sensor not available on ThinPro and Smart Zero Core.

[27] Tamper Lock is an optional feature that must be configured at time of purchase.

[28] 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.

[29] Availability may vary by country.

[30] For customers located in the United States and Canada, visit this link to find out more about our self-maintainer program: https://h20345.www2.hp.com/csnmcmsdocs/marcomm/cpn_cms/SMext1.htm. For customers in Latin America, EMEA and Asia Pacific, please work directly with your sales account representative to understand what self-repair program options may be available for you.

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

[32] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

[33] Windows only.

[34] ThinPro only.

[35] Customer will only get Wi-fi 6 support. Wifi 6E not available.

[36] WWan only available on Windows IoT.

[37] 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.

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