HP Elite mt645 G8 Mobile Thin Client (B5YW9UT)



Overview

Our ultimate mobile solution for virtualization

Tackle mission-critical work with the high-performance HP Elite mt645 Mobile Thin Client. Featuring a powerful AMD Ryzen™ Processor[1,2] and DDR5 memory with advanced security and unified communications support, this high-quality virtualized endpoint delivers an elevated experience for hybrid workers with simple, scalable management for IT.

Unleash maximum performance

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

Flexible OS options

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

Enterprise-grade security

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

Help protect our shared future

The HP Elite mt645 Mobile Thin Client outer box packaging is 100 percent sustainably sourced and recyclable.[9,10]

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[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.

[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.

Specifications

Operating system	Windows 11 IoT Enterprise 2024 LTSC
Product color	Pike silver
Processor family	AMD Ryzen™ 3 processor
Processor	AMD Ryzen™ 3 7335U (up to 4.3 GHz max boost clock, 8 MB L3 cache, 4 cores, 8 threads)
Memory	8 GB DDR5-4800 MT/s (1 x 8 GB)
Memory Slots	2 SODIMM
Internal Storage	256 GB PCIe® NVMe™ SSD
Graphics	Integrated
Graphics (integrated)	AMD Radeon™ 660M Graphics
Display	35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC
Display	14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC[12,13,14,15,16]
Display size (diagonal)	35.6 cm (14")
Display size (diagonal)	14"
Audio	Audio by Poly Studio, dual stereo speakers with discrete amplifiers, integrated dual array microphones
Dimensions (W x D x H)	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.)*
Dimensions (W x D x H)	12.54 x 8.83 x 0.43 in (front); 12.54 x 8.83 x 0.67 in (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.)*
Weight	Starting at 3.09 lb *(Weight will vary by configuration. Does not include power adapter.)*
Keyboard	HP Standard Keyboard — spill-resistant, optional backlit keyboard with DuraKeys
Pointing device	Clickpad with multi-touch gesture support
Input devices	Hall sensor; Thermal sensor; HP Tamper Lock[20]
Camera	1080p FHD camera with integrated dual array microphones

Ports	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.)*
Wireless	MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card
Power	HP 65 W USB Type-C™ adapter[18]
Battery type	HP Long Life 3-cell, 48 Wh polymer
Sustainable impact specifications	Low halogen
UPC number	(ABA) 198990160146; (ABL) 198990160139

Additional specifications

Battery brand	HP
Battery capacity	48
Battery capacity uom	Wh
Battery cells number	3
Battery life	Long Life
Battery life note	Battery is internal and not replaceable by customer. Serviceable by warranty. Fast charging 50% in 30 minutes.
Battery type	Polymer
Bluetooth version	Bluetooth® 5.3
Camera resolution (vertical)	1080p
Camera resolution standard	FHD
Certifications and compliances	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
Color gamut	45% NTSC
Display	35.6 cm (14") diagonal WUXGA display
Display	14" diagonal WUXGA display
Display brightness	300
Display brightness uom	nits
Display panel technology	IPS
Display resolution (pixels)	1920 x 1200
Display resolution standard	WUXGA
Display size (diagonal) uom	"
Display size (diagonal, imperial)	14
Display size (diagonal, metric)	35.6
Display size (diagonal, metric) uom	cm
Display surface treatment	Anti-glare
Keyboard backlight	backlit
Keyboard features	Spill-resistant
Keyboard size	Full-size
Manageability Features 1	HP Device Manager
Manageability Features 2	HP Easy Shell
Manageability Features 3	HP ThinUpdate
Manageability Features 4	HP USB Port Manager

Manageability Features 5	HP Write Manager
Manageability Features 7	Microsoft System Center Configuration Manager
Manageability Features footnote number 2	[25]
Memory layout (slots & size)	1 x 8 GB
Memory module type	DIMM
Memory size	8
Memory size uom	GB
Memory speed	4800
Memory speed uom	MT/s
Memory type	DDR5
Number of memory slots	1
Processor Brand	AMD
Processor cache	8 MB L3
Processor core	4
Processor family	Ryzen™ 3
Processor maximum frequency	4.3
Processor maximum frequency uom	GHz
Processor model	7335U
Processor threads	8
Security management	TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified)
Security management	HP Platform Certificate
Security management	Windows Hello Enhanced SIgn-in Security (ESS) Enable
Security management	HP Sure Start
Security management	HP Tamper Lock
Security management	HP TPM Configuration Utility
Security management footnote number	[20]
Security management footnote number	[31]
Software included	TTWin
Software included	HP Auto Logon
Software included	HP System Information
Software included	HEVC codec
Software included	HP Connection Optimizer
Software included	CyberLink Media Suite

Software included footnote number	HP Connection Optimizer requires Windows 10 and Windows 11.
Standard memory note	Transfer rates up to 4800 MT/s.
Storage capacity	256
Storage capacity uom 01	GB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211503
Wireless Model	RZ616
Wireless antenna	2x2
Wireless standard	Wi-Fi 6E
Wireless supplier	MediaTek

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[10] USB 20Gbps speed is not available with Thunderbolt™ 4.

[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.

[16] All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[18] Availability may vary by country.

[20] HP Tamper Lock must be enabled by the customer or your administrator.

Accessories for PC

Power

★ : Recommended

Power Adapters

HP 110W USB-C Laptop Charger	8B3Y2AA
HP 110W USB-C Laptop Charger	8B3Y2UT

Keyboards/Other Input Devices

Wireless Combo

HP 655 Wireless Keyboard and Mouse Combo	860P8AA

Wireless Keyboards

HP 965 Ergonomic Wireless Keyboard	7E756AA

Bags

Backpacks

HP Campus Blue Backpack	7J596AA
HP Campus Blue Backpack	7K0E5AA
HP Campus Green Backpack	7J595AA
HP Campus Green Backpack	7K0E4AA
HP Campus XL Marble Stone Backpack	7J592AA
HP Campus XL Marble Stone Backpack	7K0E2AA
HP Campus XL Tie Dye Backpack	7J593AA
HP Campus XL Tie Dye Backpack	7K0E3AA
HP Prelude 15.6-inch Backpack	2Z8P3AA
HP Prelude Backpack 15.6	1E7D6AA
HP Prelude Backpack 15.6	1E7D6UT
HP Prelude Backpack 15.6	50P32AA
HP Prelude G2 15.6 Backpack (Bulk Qty.15)	1E7D6A6
HP Prelude Pro 15.6-inch Recycled Backpack	1X644A6
HP Prelude Pro 15.6-inch Recycled Backpack	1X644AA
HP Renew Business 17.3-inch Laptop Backpack	3E2U5A6
HP Renew Business 17.3-inch Laptop Backpack	3E2U5AA
HP Renew Business 17.3-inch Laptop Backpack	3E2U5UT

HP Renew Executive 16 Laptop Backpack	6B8Y1UT
HP Renew Executive 16-inch Laptop Backpack	6B8Y1AA
HP Travel 18 Liter 15.6 Iron Grey Laptop Backpack	6B8U6AA
HP Travel 18 Liter 15.6 Iron Grey Laptop Backpack	6H2D9AA
HP Travel 25 Liter 15.6 Iron Grey Laptop Backpack	6B8U4AA
HP Travel 25 Liter 15.6 Iron Grey Laptop Backpack	6H2D8AA

Topload Bags

HP Prelude 15.6-inch Laptop Bag	2Z8P4AA
HP Prelude 15.6-inch Topload	1E7D7AA
HP Prelude 15.6-inch Topload	50P31AA
HP Prelude G2 15.6 TL (Bulk 20)	1E7D7A6
HP Prelude Pro 15.6-inch Recycled Top Load	1X645AA
HP Prelude Pro Rec 15.6 TL (Bulk 12)	1X645A6
HP Renew Business 14.1-inch Laptop Bag	3E5F9AA
HP Renew Business 15.6-inch Laptop Bag	3E5F8A6
HP Renew Business 15.6-inch Laptop Bag	3E5F8AA
HP Renew Business 17.3-inch Laptop Bag	3E2U6AA
HP Renew Executive 16-inch Laptop Bag	6B8Y2AA
HP Rnw Busi 14.1 Laptop Bag (Bulk 12)	3E5F9A6

Sleeves

HP Renew Business 14.1-inch Laptop Sleeve	3E2U7A6
HP Renew Business 14.1-inch Laptop Sleeve	3E2U7AA
HP Renew Executive 14-inch Laptop Sleeve	6B8Y3AA

Port Replicators/Dongles/Docking

Docking

HP Thunderbolt Dock 120W G4	4J0A2AA
HP Thunderbolt Dock 280W G4 w/Combo Cable	4J0G4AA
HP USB-C Dock G5	26D32AA
HP USB-C Dock G5	5TW10AA

Hybrid Work Solutions

Audio

★ : Recommended

Wired Headset

Poly EncorePro 310 Monaural USB-A Headset TAA	767G1AA
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A Headset	783R2AA

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