



# HP Elite mt645 G8 Mobile Thin Client (B5YX4UA)



## 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<sup>[1,2]</sup> 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.<sup>[1,2]</sup>

### 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.<sup>[9,10]</sup>

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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), touch, IPS, anti-glare, 300 nits, 45% NTSC                                                                                                                                                                          |
| Display                 | 14" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC <sup>[12,13,14,15,16]</sup>                                                                                                                                                        |
| 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)<br><i>(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.)</i> |
| 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)<br><i>(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.)</i>  |
| Weight                  | Starting at 1.39 kg<br><i>(Weight will vary by configuration. Does not include power adapter.)</i>                                                                                                                                                               |
| Weight                  | Starting at 3.09 lb<br><i>(Weight will vary by configuration. Does not include power adapter.)</i>                                                                                                                                                               |
| 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 <sup>[20]</sup>                                                                                                                                                                                                      |
| Camera                  | 5 MP camera                                                                                                                                                                                                                                                      |

|                                          |                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ports</b>                             | 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 <sup>[10,45]</sup><br>(HDMI cable sold separately.) |
| <b>Wireless</b>                          | Realtek Wi-Fi 6E RTL8852CE (2x2) and Bluetooth® 5.3 wireless card                                                                                                                                                                                                                                                           |
| <b>Power</b>                             | HP 65 W USB Type-C™ adapter <sup>[18]</sup>                                                                                                                                                                                                                                                                                 |
| <b>Battery type</b>                      | HP Long Life 3-cell, 48 Wh polymer                                                                                                                                                                                                                                                                                          |
| <b>Sustainable impact specifications</b> | Low halogen                                                                                                                                                                                                                                                                                                                 |
| <b>UPC number</b>                        | (ABA) 198990160252; (ABL) 198990160269                                                                                                                                                                                                                                                                                      |

## 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.                                                                    |
| Bluetooth version                   | Bluetooth® 5.3                                                                                                                                                                    |
| Camera Infrared                     | IR                                                                                                                                                                                |
| Camera resolution                   | 5                                                                                                                                                                                 |
| Camera resolution uom               | MP                                                                                                                                                                                |
| 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                             | 14" diagonal WUXGA display                                                                                                                                                        |
| Display                             | 35.6 cm (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                                                                                                                                                                        |
| Display touchscreen type            | Touch screen                                                                                                                                                                      |
| 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                                                                  |

|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| <b>Software included</b>                 | CyberLink Media Suite                                       |
| <b>Software included footnote number</b> | HP Connection Optimizer requires Windows 10 and Windows 11. |
| <b>Standard memory note</b>              | Transfer rates up to 4800 MT/s.                             |
| <b>Storage capacity</b>                  | 256                                                         |
| <b>Storage capacity uom 01</b>           | GB                                                          |
| <b>Storage interface 01</b>              | PCIe®                                                       |
| <b>Storage interface protocol 01</b>     | NVMe™                                                       |
| <b>Storage type</b>                      | SSD                                                         |
| <b>Storage type 01</b>                   | SSD                                                         |
| <b>UNSPSC code</b>                       | 43211503                                                    |
| <b>Wireless Model</b>                    | RTL8852CE                                                   |
| <b>Wireless antenna</b>                  | 2x2                                                         |
| <b>Wireless standard</b>                 | Wi-Fi 6E                                                    |
| <b>Wireless supplier</b>                 | Realtek                                                     |

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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.*

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## 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 |

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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