



HP t640 Thin Client

The highly secure thin client optimized for workplace productivity.

Tackle your hybrid local and virtual computing workloads with the HP t640 Thin Client. Help keep your data and device safe across your workflows with built-in security features. Choose the right fit for your specific users and environment with a range of subsystem options.



*Product image may differ from actual product

Maximize what you can accomplish.

- Empower your workforce with performance that conquers every task—an AMD Ryzen™ R1505G processor¹, high-speed, responsive system memory, and native support for up to three UHD/4K displays.

Refined security

- Encrypt data as it flows between the system memory and processor, protect firmware, and lock down access with an inherently secure thin client that has AMD Memory Guard, an embedded OS, and a NIST SP800-193 component.

Modern flexibility

- Select from up to 35 different subsystem options, including wired or wireless networking and support for legacy peripherals. Conveniently position the thin client in up to six different orientations with an integrated VESA mount.²

Value-added software

- Remotely setup and deploy your devices and get local-quality multimedia with exclusive software that makes our thin clients capable, responsive, and reliable.
- Balance the load on remote resources with the HP t640 Thin Client that easily integrates into your virtualized computing or a hybrid cloud computing environment.
- Create a more modern workspace by configuring your HP t640 Thin Client to work with a USB-C® docking display.³
- Deter unauthorized updates with an embedded operating system that protects flash memory. Customize user settings and permissions to monitor and control incoming and outgoing data.
- Secure your content and data even more with an optional smartcard-integrated keyboard or Fiber Optic NIC connection.⁴
- Deploy the HP t640 Thin Client across your healthcare environment, from reception areas to medical carts to data entry. It can be mounted horizontally or vertically and is certified to meet EN/IEC 60601-1-2 technical standards for safety near patients and medical devices.
- Create a working environment focused on productivity with the fanless t640 Thin Client equipped with modern solid-state drives for near silent operation.

HP t640 Thin Client Specifications Table



*Product image may differ from actual product

Available Operating Systems	Windows 10 IoT Enterprise 2021 LTSC Windows 10 IoT Enterprise 2019 LTSC HP ThinPro
Available Processors¹	AMD Ryzen™ R1505G with Radeon™ Vega 3 Graphics (2.4 GHz base clock, up to 3.3 GHz max boost clock, 1 MB cache, 2 cores)
Browser	Internet Explorer (for models with Windows 10 IoT Enterprise LTSC 2019); Mozilla Firefox (for models with HP ThinPro)
Maximum memory	32 GB DDR4-2400 SDRAM ³ Transfer rates up to 2400 MT/s
Memory slots	2 SODIMM
Internal storage	16 GB up to 512 GB Flash memory ²
Display support	Up to 3 displays with three DisplayPort™ 1.2 video outputs provided at the back of the system.
Available Graphics	Integrated: AMD Radeon™ Vega 3
Protocols	Citrix® HDX; Microsoft RFX/RDP; VMware Horizon® View™ through RDP/PCoIP, and Blast Extreme
Audio	Internal amplified speaker system for basic audio playback
Ports and Connectors	Front: 1 headphone/microphone combo; 1 USB 3.1 Gen 1; 1 USB 3.1 Type-C™ Gen 2; 1 USB 3.1 Gen 2 ; Back: 1 audio-in; 2 USB 2.0; 2 USB 3.1 Gen 1; 3 DisplayPort 1.2
Input devices	HP USB Business Slim Keyboard; HP USB Optical Mouse;
Communications	LAN: Realtek RTL8111HSH GbE; Allied Telesis AT-27M2/SC M.2 Fast Ethernet; Allied Telesis AT-29M2/SC M.2 Gigabit; Allied Telesis AT-29M2/LC M.2 Gigabit ^{4,5} ; WLAN: Intel® Wireless-AC 9260 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo, non-vPro®; Realtek RTL8852AE 802.11a/b/g/n/ax (2x2) Wi-Fi® and Bluetooth® 5.2 wireless card ;
Software	HP Device Manager; HP Easy Shell; HP Easy Tools; HP Smart Zero Client Services; HP ThinUpdate; HP True Graphics; Microsoft SCCM/EDM Agent; ⁶
Power	45 W smart external power adapter
Dimensions	3.5 x 19.6 x 19.6 cm; (Vertical orientation.)
Weight	1 kg; (Weight will vary depending on configuration.)
Ecolabels	ENERGY STAR® certified; EPEAT® 2019 registered ^{7,9}
Sustainable impact specifications	Low halogen ⁸
Warranty	3 year (3-3-0) limited warranty and service offering includes 3 year of unit exchange with no on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

HP t640 Thin Client

Accessories and services (not included)

HP EliteDisplay E243m 60.45 cm (23.8") Monitor



Connect and collaborate in complete comfort on the HP EliteDisplay E243m 60.45 cm (23.8") Monitor, which is Skype for Business® certified for optimal video and audio experiences between displays and has a 3-sided micro-edge bezel for seamless multi-display¹ tiling and 4-way adjustable ergonomics.
Product number: 1FH48AA
¹ Each display sold separately.
² All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

HP EliteDisplay E243m 23.8-inch Monitor



Connect and collaborate in complete comfort on the HP EliteDisplay E243m 60.45 cm (23.8") Monitor, which is Skype for Business® certified for optimal video and audio experiences between displays and has a 3-sided micro-edge bezel for seamless multi-display¹ tiling and 4-way adjustable ergonomics.
Product number: 1FH48AS
¹ Each display sold separately.
² All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

HP 5 year Next Business Day Advanced Exchange Hardware Support for Thin Clients



HP provides quick replacement of your failed hardware unit the day after it goes down, if the problem can't be resolved remotely, for 5 years.
Product number: U7929E

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Messaging Footnotes

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 Mounting hardware sold separately.

³ Sold separately or as an optional feature.

⁴ Keyboard and network adapter sold separately or as configurable options at the time of purchase.

Technical Specifications 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. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

² For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes.

³ Graphics chipset uses part of the total system memory (RAM) for graphics performance. System memory dedicated to graphics performance is not available for other use by other programs.

⁴ Optional or add-on feature.

⁵ Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited.

⁶ Software is dependent on operating system installed. Please refer to this product's QuickSpec for more details.

⁷ Based on US EPEAT® registration according to IEEE 1680.1 - 2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

⁸ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

⁹ Energy Star Configurations available.

¹⁰ 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.

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