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.

Maximize what you can accomplish

- Empower your workforce with performance that conquers every task—an AMD Ryzen™ R1505G processor[1], 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.

HP t640 Thin Client Specifications Table

Available Operating Systems	Windows 10 IoT Enterprise LTSC 2019 HP ThinPro
Browser	Internet Explorer (for models with Windows 10 IoT Enterprise LTSC 2019); Mozilla Firefox (for models with HP ThinPro)
Available Processors[1]	AMD Ryzen™ R1505G with Radeon™ Vega 3 Graphics (2.4 GHz base clock, up to 3.3 GHz max boost clock, 1 MB cache, 4 cores)
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™; 1 USB 3.1 Type-C™ 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 Wi-Fi 5 (2x2) and Bluetooth® 5 Combo ;
Available 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.)
Energy efficiency compliance	ENERGY STAR® certified; EPEAT® 2019 registered[7]
Environmental specifications	Low halogen[8]

HP t640 Thin Client

Accessories and services (not included)

HP Z23n G2 23-inch Display

Be a productive powerhouse with the sleek HP Z23n G2 58.42 cm (23") Display. This virtually seamless Full HD display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen[1] tiling, and expansive device connections. Stable, low-cost and desktop-like performance providing maximum security. Industry leading and proven enterprise technology that delivers lower ownership costs to server-based computing – ideal for transaction-based applications that require maximum security. HP Thin Clients are designed for businesses requiring desktop-like performance and PCs that are easy to deploy and manage, providing unprecedented investment protection and guaranteed uptime.
Product number: 1JS06A4

HP Z24n G2 24-inch Display

Be a productive powerhouse with the sleek WUXGA HP Z24n G2 60.96 cm (24") Display. This virtually seamless display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen[1] tiling, and expansive device connections, including USB-C™. Stable, low-cost and desktop-like performance providing maximum security. Industry leading and proven enterprise technology that delivers lower ownership costs to server-based computing – ideal for transaction-based applications that require maximum security. HP Thin Clients are designed for businesses requiring desktop-like performance and PCs that are easy to deploy and manage, providing unprecedented investment protection and guaranteed uptime.
Product number: 1JS09A4

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.

Technical Specifications 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] 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.

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