



t640 Thin Client Bundle (597K0UA)



Overview

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.

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]

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.

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.

Features

Optimize for your environment

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.

Built for the modern workspace

Create a more modern workspace by configuring your HP t640 Thin Client to work with a USB-C® docking display.

Proactive protection controls

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.

Do not disturb

Create a working environment focused on productivity with the fanless t640 Thin Client equipped with modern solid-state drives for near silent operation.

[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.

Specifications

Operating system	Windows 10 IoT Enterprise for Thin Clients
Processor	AMD Ryzen™ R1505G (2.4 GHz base clock, up to 3.3 GHz max boost clock, 4 MB L3 cache, 2 cores)
Memory	8 GB DDR4-2400 MHz RAM (2 x 4 GB)
Memory Slots	2 SODIMM
Internal Storage	128 GB SATA M.2 SSD
Graphics	Integrated
Graphics (integrated)	AMD Radeon™ Vega 3 Graphics
Audio	Internal amplified speaker system for basic audio playback
Minimum dimensions (W x D x H)	3.5 x 19.6 x 19.6 cm (Vertical orientation.)
Minimum dimensions (W x D x H)	1.24 x 7.71 x 7.71 in (Vertical orientation.)
Weight	1 kg (Weight will vary depending on configuration.)
Weight	2.2 lb (Weight will vary depending on configuration.)
Keyboard	HP USB Slim Business Keyboard
Pointing device	HP USB optical mouse
Ports	1 headphone/microphone combo; 1 USB 3.1 Gen 1; 1 USB 3.1 Type-C™ Gen 2; 1 USB 3.1 Gen 2
Ports	1 audio-in; 2 USB 2.0; 2 USB 3.1 Gen 1; 3 DisplayPort 1.2
Wireless	Realtek RTL8852AE Wi-Fi 6 (2x2) and Bluetooth® 5.2 wireless card
Protocols	Citrix® HDX; Microsoft RFX/RDP; VMware Horizon® View™ through RDP/PCoIP, and Blast Extreme
Power	45 W smart external power adapter
Sustainable impact specifications	Low halogen
Software included	HP Device Manager; HP Easy Shell; HP Easy Tools; HP Smart Zero Client Services; HP ThinUpdate; HP True Graphics; Microsoft SCCM/EDM Agent
Browser supported	Internet Explorer (for models with Windows 10 IoT Enterprise LTSC 2019); Mozilla Firefox (for models with HP ThinPro)
UPC number	196337367388

Additional specifications

Accessories	HP Quick Release Kit EM870AA; HP B300 PC Mounting Bracket 2DW53AA; HP B500 PC Mounting Bracket 2DW52AA; HP USB Business Slim Keyboard N3R87AA; HP Wireless Business Slim Keyboard and Mouse N3R88AA
Additional information about HP in the countries	hp.com
Bluetooth version	Bluetooth® 5.2
Datasheet photo 1	Publication Photos/Tranquill_1.jpg
Datasheet photo 3	Publication Photos/Tranquill_3.jpg
Datasheet photo 4	Publication Photos/Tranquill_4.jpg
Datasheet photo 5	Publication Photos/Tranquill_5.jpg
Datasheet publication number	4AA7-5974
ECC memory	non-ECC
I/O Port location	Back
I/O Port location	Front
Keyboard interface	USB
Memory layout (slots & size)	2 x 4 GB
Memory module type	DIMM
Memory size	8
Memory size uom	GB
Memory speed	2400
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	2
Processor Brand	AMD
Processor cache	4 MB L3
Processor core	2
Processor maximum frequency	3.3
Processor maximum frequency uom	GHz
Processor threads	2
Product long name specifications	t640 Thin Client Bundle, Windows 10 IoT Enterprise for Thin Clients, AMD 8GB RAM, 128GB SSD
Product short name specifications	t640 Thin Client Bundle, AMD 8GB RAM, 128GB SSD
Standard memory note	Transfer rates up to 2400 MT/s.
Storage capacity	128

Storage capacity uom 01	GB
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211506
Wireless Model	RTL8852AE
Wireless antenna	2x2
Wireless standard	Wi-Fi 6
Wireless supplier	Realtek

Services

HP Care Pack Services

★ : Recommended

Personal Systems Commercial Care Pack Services

HP 3 year Next Business Day Response Advanced Exchange Thin Client Hardware Support	U4847E ★
HP 4 year Next Business Day Response Advanced Exchange Thin Client Hardware Support	U7927E ★
HP 5 year Next Business Day Response Advanced Exchange Thin Client Hardware Support	U7929E ★
HP 1 year Post Warranty Next Business Day Response Advanced Exchange Thin Client HW Supp	U4848PE
HP 1 year Post Warranty Return to Depot Thin Client Hardware Support	U6569PE
HP 1 year Post Warranty Return to Depot w/Defective Media Retention Thin Client HW Supp	U0A95PE
HP 3 year Return to Depot w/Defective Media Retention Thin Client Hardware Support	U0A92E
HP 4 year Return to Depot Thin Client Hardware Support	UD798E
HP 4 year Return to Depot w/Defective Media Retention Thin Client Hardware Support	U0A93E
HP 5 year Return to Depot Thin Client Hardware Support	UD799E
HP 5 year Return to Depot w/Defective Media Retention Thin Client Hardware Support	U0A94E

Accessories

Security and Protection

★ : Recommended

PC Locks

HP Keyed Cable Lock 10 mm	T1A62AA ★
HP Keyed Cable Lock 10 mm	T1A62UT

Rack Brackets/Bezels/ Panels/Rails/ Trays/Mounting

Mounting Kits

HP Quick Release Bracket 2	6KD15AA ★
HP Thin Client Mounting Bracket	2FT00AA ★
Dual VESA Mount Bracket for HP Thin Client	9UB87AA
HP B300 PC Mounting Bracket	2DW53AA
HP B300 PC Mounting Bracket	2DW53AT
HP B500 PC Mounting Bracket	2DW52AA
HP B500 PC Mounting Bracket	2DW52AT
HP Quick Release Bracket 2	6KD15AT

PC Drives and Storage

PC Solid State Drives

HP 128 GB M.2 2280 Flash Memory Drive	Y7B91AA
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Keyboards/Mice and Input Devices

Mice

HP 128 Laser Wired Mouse	265D9AA
HP 128 Laser Wired Mouse	265D9UT
HP 635 Multi-Device Wireless Mouse	1D0K2AA
HP 635 Multi-Device Wireless Mouse	1D0K2UT
HP 935 Creator Wireless Mouse	1D0K8AA
HP 935 Creator Wireless Mouse	1D0K8UT
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80UT

Keyboard and Mouse Kits

HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
HP 235 Wireless Mouse and Keyboard Combo	1Y4D0UT
HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165UT

Keyboards

HP Business Slim Smartcard Keyboard	Z9H48AA
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37UT

Memory

DDR4 Memory

HP 16GB DDR4-3200 SODIMM	13L75AA
HP 16GB DDR4-3200 SODIMM	13L75AT
HP 4GB DDR4-3200 SODIMM	13L79AA
HP 4GB DDR4-3200 SODIMM	13L79AT
HP 8GB DDR4-3200 SODIMM	13L77AA
HP 8GB DDR4-3200 SODIMM	13L77AT

Batteries/Chargers/Adapters

AC Adapters

HP 65W USB-C LC Power Adapter	1P3K6AA
HP 65W USB-C LC Power Adapter	1P3K6UT

Power Supplies

HP Thin Client 45W Power Supply and Power Cable	Y3U68AA
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Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP DisplayPort Cable Kit	VN567AA
HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT

HP DisplayPort To VGA Adapter	F7W97AA
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HP DisplayPort to DVI-D Adapter	FH973AA
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HP DisplayPort to DVI-D Adapter	FH973AT
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HP DisplayPort to HDMI True 4K Adapter	2JA63AA
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Point of Sales System Options

POS Display Accessories

HP Engage One 10.1-inch Display	1XD80AA
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HP Engage One W 10.1-inch Display	3FH66A8
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HP Engage One W 10.1-inch Touch Display	3FH67A8
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HP L7010t 10.1-inch Retail Touch Monitor	T6N30A8
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HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
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HP L7014 14-inch Retail Monitor	T6N31A8
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HP L7014 14-inch Retail Monitor	T6N31AA
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HP L7014t 14-inch Retail Touch Monitor	T6N32A8
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HP L7014t 14-inch Retail Touch Monitor	T6N32AA
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HP L7016t 15.6-inch Retail Touch Monitor	V1X13A8
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HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA
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Cabinets and Stands

Monitor Stands

HP Integrated Work Center for Desktop Mini and Thin Client	G1V61AA
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HP Integrated Work Center for Desktop Mini and Thin Client	G1V61AT
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Expansion Solution and Controller Cards

Port Adapters

HP USB to Serial Port Adapter	J7B60AA
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Monitors

Business Monitors

★ : Recommended

E-Series

HP E24m G4 FHD USB-C Conferencing Monitor	40Z32AA ★
HP E14 G4 Portable Monitor	1B065AA
HP E22 G4 FHD Monitor	9VH72AA
HP E23 G4 FHD Monitor	9VF96AA
HP E24 G4 FHD Monitor	9VF99AA
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24mv G4 FHD Conferencing Monitor	169L0AA
HP E24q G4 QHD Monitor	9VG12AA
HP E24t G4 FHD Touch Monitor	9VH85AA
HP E24u G4 FHD USB-C Monitor	189T0AA
HP E27 G4 FHD Monitor	9VG71AA
HP E27q G4 QHD Monitor	9VG82AA
HP E27u G4 QHD USB-C Monitor	189T3AA

P-Series

HP P22 G4 22 FHD Monitor	1A7E4AA
HP P22h G4 FHD Monitor	7UZ36AA
HP P24 G4 24 FHD Monitor	1A7E5AA

Z Displays

HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z32 31.5-inch 4K UHD Display	1AA81A4
HP Z32 31.5-inch 4K UHD Display	1AA81A8
HP Z38c 37.5-inch Curved Display	Z4W65A4

HP Z38c 37.5-inch Curved Display

Z4W65A8

HP Z43 42.5-inch 4K UHD Display

1AA85A4

HP Z43 42.5-inch 4K UHD Display

1AA85A8

Solutions

Cloud Client Solutions

★ : Recommended

Cloud Client Solutions

Thin Client Solution for Contact Centers	TC-CONTACTCTR
Thin Client Solution for Financial Services	TC-FINANCIAL
Thin Client Solution for Healthcare	TC-HEALTH

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