

HP t640 Thin Client (7TK40UT)



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.

[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	HP ThinPro
Memory	4 GB DDR4-2400 SDRAM (1 x 4 GB)
Memory Slots	2 SODIMM
Internal Storage	16 GB M.2 Flash memory
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
Network interface	Intel® Dual Band Wireless-AC 9260 802.11ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo
Protocols	Citrix® HDX; Microsoft RFX/RDP; VMware Horizon® View™ through RDP/PCoIP, and Blast Extreme
Power	45 W smart external power adapter
Energy efficiency	ENERGY STAR® certified
Environmental	Low halogen
Browser supported	Internet Explorer (for models with Windows 10 IoT Enterprise LTSC 2019); Mozilla Firefox (for models with HP ThinPro)
UPC number	(ABA) 193905702503; (ABC) 193905702527

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
I/O Port location	Back
I/O Port location	Front
Standard memory note	Transfer rates up to 2400 MT/s.
Storage type	eMMC

Accessories

Memory

★ : Recommended

DDR4 Memory

HP 16GB DDR4-2666 SODIMM	3TK84AA ★
HP 4GB DDR4-2666 SODIMM	3TK86AA
HP 8GB DDR4-2666 SODIMM	3TK88AA

Security and Protection

PC Locks

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

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

Mounting Kits

HP Quick Release Bracket 2	6KD15AA ★
HP Thin Client Mounting Bracket	2FT00AA ★
HP B300 PC Mounting Bracket	2DW53AA
HP B500 PC Mounting Bracket	2DW52AA
HP PC Mounting Bracket for Monitors	N6N00AA

Batteries/Chargers/Adapters

Power Supplies

HP Thin Client 45W Power Supply	Y3U71AA ★
HP Thin Client 45W Power Supply and Power Cable	Y3U68AA

Keyboards/Mice and Input Devices

Keyboard and Mouse Kits

HP Wireless Business Slim Keyboard and Mouse	N3R88AA ★
--	-----------

Mice

HP USB 1000dpi Laser Mouse	QY778AA ★
HP USB Optical Scroll Mouse	QY777AA

Keyboards

HP USB Slim Business Keyboard

N3R87AA ★

HP Business Slim Smartcard Keyboard

Z9H48AA

PC Drives and Storage

PC Solid State Drives

HP 128 GB M.2 2280 Flash Memory Drive

Y7B91AA

Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP DisplayPort Cable Kit

VN567AA

HP DisplayPort To VGA Adapter

AS615AA

HP DisplayPort to DVI-D Adapter

FH973AA

HP DisplayPort to HDMI True 4K Adapter

2JA63AA

Point of Sales System Options

POS Display Accessories

HP Engage One 10.1-inch Display

1XD80A7

HP Engage One 10.1-inch Display

1XD80AA

HP Engage One 10.1-inch Display

1XD81A7

HP Engage One 10.1-inch Touch Display

1XD81AA

HP Engage One W 10.1-inch Display

3FH66A7

HP Engage One W 10.1-inch Display

3FH66A8

HP Engage One W 10.1-inch Display

3FH66AA

HP Engage One W 10.1-inch Touch Display

3FH67A8

HP Engage One W 10.1-inch Touch Display

3FH67AA

HP L6010 10.4-inch Retail Monitor

A1X76AA

HP L6015tm 15-inch Retail Touch Monitor

A1X78AA

HP L6017tm 17-inch Retail Touch Monitor

A1X77AA

HP L7010t 10.1-inch Retail Touch Monitor

T6N30A8

HP L7010t 10.1-inch Retail Touch Monitor

T6N30AA

HP L7014 14-inch Retail Monitor

T6N31A8

HP L7014 14-inch Retail Monitor

T6N31AA

HP L7014t 14-inch Retail Touch Monitor

T6N32A8

HP L7014t 14-inch Retail Touch Monitor	T6N32AA
HP L7016t 15.6-inch Retail Touch Monitor	V1X13A8
HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA

Cabinets and Stands

Monitor Stands

HP Integrated Work Center Stand for Ultra Slim Desktop and Thin Client	E8H16AA
HP Integrated Work Center for Desktop Mini and Thin Client	G1V61AA

Expansion Solution and Controller Cards

Port Adapters

HP USB to Serial Port Adapter	J7B60AA
-------------------------------	---------

Monitors

Business Monitors

★ : Recommended

EliteDisplays

HP EliteDisplay E243 23.8-inch Monitor	1FH47A7 ★	
HP EliteDisplay E243 23.8-inch Monitor	1FH47A8 ★	
HP EliteDisplay E243 23.8-inch Monitor	1FH47AA ★	
HP EliteDisplay E243 23.8-inch Monitor	1FH47AS ★	
HP EliteDisplay E243 23.8-inch Monitor Head Only	1FH47U9 ★	
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76A8 ★	
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA ★	
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76U9 ★	
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13A7 ★	
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13A8 ★	
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13AA ★	
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13U9 ★	
HP E344c 34-inch Curved Monitor	6GJ95A8	
HP E344c 34-inch Curved Monitor	6GJ95AA	
HP E344c 34-inch Curved Monitor	6GJ95AT	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30A7	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30A8	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AA	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AC	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AP	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AS	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AT	
HP EliteDisplay E202 20-inch Monitor	M1F41A7	
HP EliteDisplay E202 20-inch Monitor	M1F41A8	
HP EliteDisplay E202 20-inch Monitor	M1F41AA	
HP EliteDisplay E202 20-inch Monitor	M1F41AS	
HP EliteDisplay E202 20-inch Monitor	M1F41AT	
HP EliteDisplay E202 20-inch Monitor Head Only	M1F41U9	
HP EliteDisplay E220t 21.5-inch Touch Monitor	L4Q76AA	obsolete
HP EliteDisplay E222 21.5-inch Monitor	M1N96AA	obsolete

HP EliteDisplay E223 21.5-inch Monitor	1FH45A7	
HP EliteDisplay E223 21.5-inch Monitor	1FH45A8	
HP EliteDisplay E223 21.5-inch Monitor	1FH45AA	
HP EliteDisplay E223 21.5-inch Monitor	1FH45AS	
HP EliteDisplay E223 21.5-inch Monitor	1FH45AT	
HP EliteDisplay E223 21.5-inch Monitor	7MP21AA	
HP EliteDisplay E223 21.5-inch Monitor Head Only	1FH45U9	
HP EliteDisplay E223d 21.5-inch Docking Monitor	5VT82A7	
HP EliteDisplay E223d 21.5-inch Docking Monitor	5VT82A8	
HP EliteDisplay E223d 21.5-inch Docking Monitor	5VT82AA	
HP EliteDisplay E223d 21.5-inch Docking Monitor	5VT82AT	
HP EliteDisplay E223d 21.5-inch Docking Monitor	5VT82U9	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50A7	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50A8	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50AA	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50AS	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50AT	
HP EliteDisplay E230t 23-inch Touch Monitor Head Only	W2Z50U9	
HP EliteDisplay E232 23-inch Monitor	M1N98AA	obsolete
HP EliteDisplay E233 23-inch Monitor	1FH46A7	
HP EliteDisplay E233 23-inch Monitor	1FH46A8	
HP EliteDisplay E233 23-inch Monitor	1FH46AA	
HP EliteDisplay E233 23-inch Monitor	1FH46AS	
HP EliteDisplay E233 23-inch Monitor	1FH46AT	
HP EliteDisplay E233 23-inch Monitor	7MQ32AA	
HP EliteDisplay E233 23-inch Monitor Head Only	1FH46U9	
HP EliteDisplay E233 23-inch Monitor Head Only	2PD30AA	
HP EliteDisplay E242 24-inch Monitor	M1P02AA	obsolete
HP EliteDisplay E243 23.8-inch Monitor	1FH47AT	
HP EliteDisplay E243 23.8-inch Monitor	7MQ82AA	
HP EliteDisplay E243 23.8-inch Monitor Head Only	3XQ67AA	
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AT	
HP EliteDisplay E243d 23.8-inch Docking Monitor	7MP20AA	
HP EliteDisplay E243i 24-inch Monitor	1FH49A7	
HP EliteDisplay E243i 24-inch Monitor	1FH49A8	
HP EliteDisplay E243i 24-inch Monitor	1FH49AA	

HP EliteDisplay E243i 24-inch Monitor	1FH49AS
HP EliteDisplay E243i 24-inch Monitor	1FH49AT
HP EliteDisplay E243i 24-inch Monitor	7MQ83AA
HP EliteDisplay E243i 24-inch Monitor Head Only	1FH49U9
HP EliteDisplay E243i 24-inch Monitor Head Only	3JM87AA
HP EliteDisplay E243m 23.8-inch Monitor	1FH48A7
HP EliteDisplay E243m 23.8-inch Monitor	1FH48A8
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AA
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AS
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AT
HP EliteDisplay E243m 23.8-inch Monitor Head Only	1FH48U9
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13AT
HP EliteDisplay E273 27-inch Monitor	1FH50A7
HP EliteDisplay E273 27-inch Monitor	1FH50A8
HP EliteDisplay E273 27-inch Monitor	1FH50AA
HP EliteDisplay E273 27-inch Monitor	1FH50AS
HP EliteDisplay E273 27-inch Monitor	1FH50AT
HP EliteDisplay E273 27-inch Monitor	7MQ84AA
HP EliteDisplay E273 27-inch Monitor Head Only	1FH50U9
HP EliteDisplay E273d 27-inch Docking Monitor	5WN63A7
HP EliteDisplay E273d 27-inch Docking Monitor	5WN63A8
HP EliteDisplay E273d 27-inch Docking Monitor	5WN63AA
HP EliteDisplay E273d 27-inch Docking Monitor	5WN63AT
HP EliteDisplay E273m 27-inch Monitor	1FH51A7
HP EliteDisplay E273m 27-inch Monitor	1FH51A8
HP EliteDisplay E273m 27-inch Monitor	1FH51AA
HP EliteDisplay E273m 27-inch Monitor	1FH51AS
HP EliteDisplay E273m 27-inch Monitor	1FH51AT
HP EliteDisplay E273m 27-inch Monitor Head Only	1FH51U9
HP EliteDisplay E273q 27-inch Monitor	1FH52A7
HP EliteDisplay E273q 27-inch Monitor	1FH52A8
HP EliteDisplay E273q 27-inch Monitor	1FH52AA
HP EliteDisplay E273q 27-inch Monitor	1FH52AS
HP EliteDisplay E273q 27-inch Monitor	1FH52AT
HP EliteDisplay E273q 27-inch Monitor	7MQ85AA
HP EliteDisplay E273q 27-inch Monitor Head Only	1FH52U9

HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31A8
HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31AA
HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31AS
HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31AT
HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31U9
HP EliteDisplay S14 14-inch Portable Display	3HX46A8
HP EliteDisplay S14 14-inch Portable Display	3HX46AA
HP EliteDisplay S14 14-inch Portable Display	3HX46AT
HP EliteDisplay S270n 27-inch 4k Micro Edge Monitor	2PD37A8
HP EliteDisplay S270n 27-inch 4k Micro Edge Monitor	2PD37AA
HP EliteDisplay S270n 27-inch 4k Micro Edge Monitor	2PD37AT
HP EliteDisplay S340c 34-inch Curved Monitor	V4G46A8
HP EliteDisplay S340c 34-inch Curved Monitor	V4G46AA
HP EliteDisplay S340c 34-inch Curved Monitor	V4G46AS

Z Displays

HP DreamColor Z24x G2 Display	1JR59A4
HP DreamColor Z24x G2 Display	1JR59A7
HP DreamColor Z24x G2 Display	1JR59A8
HP DreamColor Z24x G2 Display	1JR59AT
HP DreamColor Z27x G2 Studio Display	2NJ08A4
HP DreamColor Z27x G2 Studio Display	2NJ08A7
HP DreamColor Z27x G2 Studio Display	2NJ08A8
HP DreamColor Z27x G2 Studio Display	2NJ08AT
HP DreamColor Z31x Studio Display	Z4Y82A4
HP DreamColor Z31x Studio Display	Z4Y82A7
HP DreamColor Z31x Studio Display	Z4Y82A8
HP DreamColor Z31x Studio Display	Z4Y82AT
HP Z22n G2 21.5-inch Display	1JS05A4
HP Z22n G2 21.5-inch Display	1JS05A7
HP Z22n G2 21.5-inch Display	1JS05A8
HP Z22n G2 21.5-inch Display	1JS05AT
HP Z23n G2 23-inch Display	1JS06A4
HP Z23n G2 23-inch Display	1JS06A7
HP Z23n G2 23-inch Display	1JS06A8
HP Z23n G2 23-inch Display	1JS06AT

HP Z24i G2 24-inch Display	1JS08A4
HP Z24i G2 24-inch Display	1JS08A7
HP Z24i G2 24-inch Display	1JS08A8
HP Z24i G2 24-inch Display	1JS08AT
HP Z24n G2 24-inch Display	1JS09A4
HP Z24n G2 24-inch Display	1JS09A7
HP Z24n G2 24-inch Display	1JS09A8
HP Z24n G2 24-inch Display	1JS09AT
HP Z24nf G2 23.8-inch Display	1JS07A4
HP Z24nf G2 23.8-inch Display	1JS07A7
HP Z24nf G2 23.8-inch Display	1JS07A8
HP Z24nf G2 23.8-inch Display	1JS07AT
HP Z27 27-inch 4K UHD Display	2TB68A4
HP Z27 27-inch 4K UHD Display	2TB68A8
HP Z27 27-inch 4K UHD Display	2TB68AT
HP Z27n G2 27-inch Display	1JS10A4
HP Z27n G2 27-inch Display	1JS10A7
HP Z27n G2 27-inch Display	1JS10A8
HP Z27n G2 27-inch Display	1JS10AT
HP Z32 31.5-inch 4K UHD Display	1AA81A4
HP Z32 31.5-inch 4K UHD Display	1AA81A7
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 Z38c 37.5-inch Curved Display	Z4W65AT
HP Z43 42.5-inch 4K UHD Display	1AA85A4
HP Z43 42.5-inch 4K UHD Display	1AA85A8

E-Series

HP E24d G4 FHD Advanced Docking Monitor	6PA50A8
HP E24d G4 FHD Advanced Docking Monitor	6PA50AA
HP E24d G4 FHD Advanced Docking Monitor	6PA50AT
HP E27d G4 QHD Advanced Docking Monitor	6PA56A8
HP E27d G4 QHD Advanced Docking Monitor	6PA56AA

Healthcare Edition Displays

HP Healthcare Edition HC241 Clinical Review Monitor	3ME68A7	
HP Healthcare Edition HC241 Clinical Review Monitor	3ME68A8	
HP Healthcare Edition HC241 Clinical Review Monitor	3ME68AA	
HP Healthcare Edition HC241 Clinical Review Monitor	3ME69A7	
HP Healthcare Edition HC241p Clinical Review Monitor	3ME69A8	
HP Healthcare Edition HC241p Clinical Review Monitor	3ME69AA	
HP Healthcare Edition HC270cr Clinical Review Monitor	1QW03A7	
HP Healthcare Edition HC270cr Clinical Review Monitor	1QW03A8	
HP Healthcare Edition HC270cr Clinical Review Monitor	1QW03AA	
HP Healthcare Edition HC271 Clinical Review Monitor	3ME70A7	
HP Healthcare Edition HC271 Clinical Review Monitor	3ME70A8	
HP Healthcare Edition HC271 Clinical Review Monitor	3ME70AA	
HP Healthcare Edition HC271 Clinical Review Monitor	3ME71A7	
HP Healthcare Edition HC271p Clinical Review Monitor	3ME71A8	
HP Healthcare Edition HC271p Clinical Review Monitor	3ME71AA	

Large Format Display

HP LD4312 4K Large Format Display	3XE86A7	
HP LD4312 4K Large Format Display	3XE86A8	obsolete
HP LD4312 4K Large Format Display	3XE86AA	
HP LD5512 4K UHD Conferencing Display	2YD85A8	
HP LD5512 4K UHD Conferencing Display	2YD85AA	

ProDisplays

HP Mini-in-One 24 Display	7AX23A8	
HP Mini-in-One 24 Display	7AX23AA	
HP Mini-in-One 24 Display	7AX23AT	
HP Mini-in-One 24 Display	7AX23U9	
HP ProDisplay P232 23-inch Monitor	K7X31AA	obsolete

Business LCD Monitors

HP P204 19.5-inch Monitor	5RD65A8	
HP P204 19.5-inch Monitor	5RD65AA	
HP P204 19.5-inch Monitor	5RD65AS	
HP P204 19.5-inch Monitor	5RD65AT	
HP P204 19.5-inch Monitor	5RD65U9	

Value Displays

HP P224 21.5-inch Monitor	5QG34A7
HP P224 21.5-inch Monitor	5QG34A8
HP P224 21.5-inch Monitor	5QG34AA
HP P224 21.5-inch Monitor	5QG34AT
HP P224 21.5-inch Monitor	5QG34U9
HP P244 23.8-inch Monitor	5QG35A7
HP P244 23.8-inch Monitor	5QG35A8
HP P244 23.8-inch Monitor	5QG35AA
HP P244 23.8-inch Monitor	5QG35AT
HP P244 23.8-inch Monitor	5QG35U9
HP V14 14-inch Portable Monitor	3TN62A8
HP V22b Monitor	2XM33AA
HP V24b Monitor	2XM34AA
HP VH22 22-inch Class Monitor	V9E67A6
HP VH22 22-inch Class Monitor	V9E67AA
HP VH22 22-inch Class Monitor	XON05AA
HP VH24 23.8-inch Monitor	6FE27AA
HP VH27 27-inch Monitor	2KZ36A6
HP VH27 27-inch Monitor	2KZ36AA
HP VH27 27-inch Monitor	3PL18AA
HP VH27 27-inch Monitor	3PL18AS
HP VH27 27-inch Monitor	3PL18AT

P-Series

HP P22h G4 FHD Monitor	7UZ36A7
HP P22h G4 FHD Monitor	7UZ36AA
HP P22h G4 FHD Monitor	7UZ36AT
HP P24h G4 FHD Monitor	7VH44AA
HP P24h G4 FHD Monitor	7VH44AT
HP P27h G4 FHD Monitor	7VH95AA
HP P27h G4 FHD Monitor	7VH95AT

AMD and Radeon are trademarks of Advanced Micro Devices, Inc. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Wi-Fi® is a registered trademark of Wi-Fi Alliance®.

AMD and Radeon are trademarks of Advanced Micro Devices, Inc. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Wi-Fi® is a registered trademark of Wi-Fi Alliance®.

© Copyright 2020 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Generated by Dynamic Collateral Tool – (ww-en) – Apr 13, 2020 9:54 PM UTC+0000