HP Thin Client Portfolio





Simple, flexible, true PC performance. HP thin clients are innovated with the latest, standards-based hardware, open software platforms and complete, global solutions.

The simple and flexible performance of HP's thin clients delivers rich, responsible user connectivity to client virtualization or cloud computing environments. Designed with the latest standards-based hardware, leading client virtualization software, and complete manageability tools, HP thin clients help simplify IT while providing adaptive flexibility.

HP Zero Clients

Zero in on a better VMware client.

Don't settle for sub-par performance in your VMware environment. The HP t310 Zero client is designed for uncompromised performance and higher security. With up to 5x increased imaging performance than its predecessor¹, the t310 supports two high-resolution (1900x1200) monitors or one ultra-high-resolution (2560x1600) monitor*, making it ideal for applications that need workstation-like performance. It's also HP's most secure endpoint available. Your data stays safe in your datacenter—only pixels are transferred. Hardware USB authorization and an optional fiber NIC add extra layers of security. Deploying the t310 in your current environment is easy. The Tera2 PCoIP silicon is optimized for VMware, so no operating system updates or CODECs to manage.

*With optional Dual link 2560x1600 adapter

HP Smart Zero Clients

Simple, reprogrammable, and affordable zero clients for client virtualization.

HP Smart Zero Clients support multiple protocols and can be reprogrammed on the fly. They deliver a no-compromise, intelligent zero client experience for remote and cloud computing environments. At the heart of the HP t410 is the Texas Instruments System on a Chip (SOC) that integrates the ARM CPU, graphics chipset, digital signal processor (DSP), and other components in a single package. HP takes full use of the SOC enabling the HP t410 to be a zero client that can be quickly reconfigured to run any of the three major Client Virtualization protocols and run a web browser. Platforms available include the t410 AiO and the t410.

HP Flexible Thin Clients

Powerful performance with security you want.

For performance and flexible alternatives to the PC, HP Flexible Thin Clients deliver a feature-rich thin client with significant performance and smart design. With an easy set-up, flexible thin clients provide powerful performance with more security, expansion options, and a PC-like multimedia experience. Built with dual-core processors² and 4GB or more DDR3 RAM memory capacity³, flexible thin clients provide a more robust, dependable thin client experience. Enjoy native support for dual digital displays with the option of up to six displays and hardware accelerated multimedia. Quick-configuration tools and optional integrated enterprise-class wireless⁴ make IT experiences easier. Choose the new Microsoft Windows Embedded 8 Standard, Microsoft Windows Embedded Standard 7, Microsoft Windows Embedded Standard 2009, Microsoft Windows CE, HP ThinPro operating system, or HP Smart Zero Technology. With HP Easy Tools wizard-based utilities, you can connect to remote applications and desktops with ease, including Microsoft RemoteFX, Citrix HDX, VMware Horizon View through PCoIP. Platforms available are the: HP t510, HP t610, and HP t610 PLUS.







- 1 Based on comparison between Tera 1 and Tera 2
- 2 Dual core processing is designed to improve performance of this system. Given the wide range of SW applications available, performance will vary. AMD's numbering is not a measurement of clock speed. Intel's numbering is not a measurement of higher performance.
- 3 Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows and Linux 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.
- 4 Wireless access point and Internet service required and is not included. Availability of public wireless access points limited.



HP Mobile Thin Client

Be mobile and go anywhere, anytime.

The business rugged HP mt40 Mobile Thin Client provides businesses with manageable and affordable mobility with enhanced security. Protect your business and minimize data risk by storing sensitive files on a centralized server. The bead-blast aluminum display enclosure and wear-resistant finish gives this HP thin client the polish of a professional, lightweight design. While the magnesium-reinforced ABS chassis gives added durability, the battery options and docking capabilities shared with HP notebooks provide the dependability and flexibility to keep up with your busy schedule.

If mobility is your mantra, HP Mobile Thin Clients are an affordable answer. Rely on high reliability, low ownership costs and extended product life with the HP mt40. Gain proven processing power⁵ with an Intel Celeron processor and enjoy PC-like performance for viewing digital graphics and media on a 14-inch diagonal display. Improve the quality of your connection⁴ even when telecommuting or using bandwidth-hungry apps with HP Velocity software.

HP Software

We know that the best hardware in the world needs the best software.

HP complements our globally consistent hardware offerings with HP Virtual Client Essentials, a robust portfolio of thin computing management, user experience, and security and connectivity software. HP Easy Tools dramatically simplifies device deployment, task automation, compliance management, and policy-based security management so you can manage up to thousands of devices with ease. Pre-installed on the thin client, the HP Imaging Plug-In for Microsoft System Center Configuration Manager 2012, allows you to easily manage HP's Windows Embedded Standard 7 based thin client.

HP Device Manager

Making your life easy to manage.

HPDM provides full life cycle management for HP thin clients; from initial discovery, deployment and configuration to maintenance and EOL of product. IT administrators can control and make decisions about their IT resources locally or remotely with HPDM which provides detailed asset information through a simple console "dashboard". With just one software you can do it all—track, configure, upgrade, clone, and manage up to thousands of thin client devices. So, kick back and relax. We do the hard work so you can focus on your key business initiatives. Device deployment, task automation, compliance management, and policy-based security management.

For more information go to hp.com/go/hpdm

HP Velocity

Accelerate Network Performance

HP Velocity gives you a rich virtualization experience even in the most challenging network environments. HP Velocity dynamically adjusts with changing network conditions to maintain the best user experience when working on unmanaged networks such as WAN and WiFi. It is especially suited for teleworkers, branch and remote offices, WiFi and high latency environments.

For more information go to hp.com/go/velocity

Network performance improvements with HP Velocity

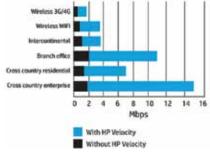


Figure 1. Effective network performances seen by user under different network conditions.

- 4 Wireless access point and Internet service required and is not included. Availability of public wireless access points limited.
- 5 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32 bit operation) without an Intel® 64 architecture enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

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Series	Zero	Smart Zero	Fl	Mobile	
Platforms	t310	t410/t410 AiO	t510	t610/t610 PLUS	mt40
Processor and memory					
Processor	TERA2321 PCoIP Zero Client processor	Texas Instruments TMS320 DM8148 ARM® Cortex™–A8	VIA Dual-Core Eden X2 U4200 1 GHz	AMD Dual-Core T56N APU with Radeon HD 6320 Graphics 1.65 GHz	3rd Generation Intel® Celeron® B840 1.90 GHz
Flash/RAM³	256 MB/512 MB	4GB/1GB eMMC 2 GB eMMC	1-16 GB/4 GB	1-16 GB/4 GB	16 GB SSD/4 GB
Video and audio (All HP d	esktop thin clients suppor	t widescreen resolutions and he	adphone/mic)		
Maximum resolution ⁷	1920 x 1200 2560 x 1600	t410 Ai0 1366 x 768 t410 1920 x 1200	1920 x 1200	2560 x 1600	2560 x 1600
Monitor support ⁶	DVI-I and DVI-D	VGA, DisplayPort 1.1a - t410 Only Built in Monitor only - t410 AiO	DVI-I and DVI-D native; DVI-I-toVGA adapter included in carton	DVI-I and DisplayPort with DVI-to-VGA adapter included in carton; PLUS: optional graphics configurations up to 6 monitors	Dual: VGA and DP v1.1a High-definition displays
Touchscreen support ⁸	No	No	Yes	Yes	No
Networking					
Integrated 802.11 wireless ⁴	N/A	N/A	Broadcom 802.11 a/b/g/n with dual antennas on select models	Broadcom 802.11 a/b/g/n with dual, internal antennas on select models PLUS: HP 100 Mbps Mini-PCIe SC Fiber NIC factory option (cannot be installed simultaneously with Wi-Fi)	Broadcom 802.11 a/b/g/n dual antennas
I/O and expansion					
Serial/Parallel /PS2/USB	0/0/0/4	0/0/0/4	1/1/2/6	Standard: 1/0/2/6 PLUS chassis: 2/1/2/6 (2x USB 3.0; 4x USB 2.0)	0/0/0/4 (2x USB 3.0; 1 x USB 2.0, 1x eSATA/USB 2.0 Combo)
Slot expansion options ⁹	No	No	No	Standard: No PLUS: 1 HH PCIe x4 card slot	Express Card 34 mm or 54 mm slot
HP cable lock slot	Yes	Yes	Yes	Yes	Yes
Environmental certificat	ions				
ENERGY STAR®	N/A	Yes	Yes Yes (PLUS: except quad-head or higher or Fiber NIC configurations)		Yes
EPEAT [®] ¹⁰	N/A	Gold	Gold	Gold (PLUS: except quad-head or higher or Fiber NIC configurations)	Yes
Low Halogen*	N/A	Yes	Yes	Yes	Yes

^{*}External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

³ Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows and Linux 32-bit operating systems, memory above 3 GB may not all be available

due to system resource requirements.

Wireless access point and Internet service required and is not included. Availability of public wireless access points limited.

⁶⁴ MB or more memory reserved for video. 42 GB/1 GB SKU available in North America. Up to 1 GB may not be available in 4GB configurations with 32-bit operating systems due to system resource requirements. Flash and RAM maximum vary with 0S.

The resolutions your monitor displays and the multi-display modes (i.e. clone, spanning, extended/independent) supported in ICA, RDP or locally may vary. Number of monitors supported varies by model.

Touchscreen support varies by OS. Not supported by Windows Embedded Standard 7E, Windows CE, or HP Smart Zero Client Technology

Options sold separately. Availability varies by country.
 EPEAT® Gold or Silver where HP registers thin client products. See epeat.net for registration status in your country.

HP Thin Client Portfolio

Software specifications			Windows Embedded Standard 2009	Windows Embedded CE 6.0	HP ThinPro	HP Smart Zero Technology¹²	
Applications		Standard 7 ¹¹					
ICA/RDP	•	•	•	•	•	•	
VDI brokers	•	•	•	•	•	•	
HP Remote Graphics Software	•	•			•		
HP TeemTalk Terminal Emulation	•	•	•	•	•		
X Windows (X11R6)					•		
Java Virtual Machine	Add-on	Add-on	Add-on	Add-From server			
API compatibility	Win64	Win32	Win32	CE	Linux		
Local browser	Full Internet Explorer	Full Internet Explorer	Full Internet Explorer	Basic Internet Explorer	Mozilla Firefox for HP Smart Zero Technology		
Media player	•	•	•	•			
PDF Reader	•	•	•		•		
ThinPrint print client (TCP/IP)	Available directly from vendor	Available directly from vendor	Available directly from vendor	•	•		
Security							
File protection	Unified Write Filter	Enhanced Write filter or File based Write Filter	Enhanced Write filter or File based Write Filter	Limited access file system	Read only file system	Downloads firmware at boot	
Locked configuration/ accounts	•	•	•	•			
Firewall	Microsoft Firewall	Microsoft Firewall	Microsoft Firewall				
Smart Card support	•	•	•	•	•	•	
Management							
HP Device Manager	•	•	•	•	•	•	
Microsoft SCCM		•	•	•	•	•	
Windows Embedded Device Manager		•	•	•	•	•	
Other							
HP Universal Print Driver	•	•					
HP Velocity	•	•	•	•	•	•	
Available Platforms	HP t610, HP t610 PLUS	HP t510, HP t610, HP t610 PLUS, and mt40	HP t510, HP t610, HP t610 PLUS	HP t510	HP t510, HP t610, HP t610 PLUS	HP t410, t410 AiO, HP t510, HP t610	

¹¹ Windows Embedded Standard 7 products require 8 GB or more Flash memory.12 Configurable for one protocol at a time.

		VMware Horizon View HCL					Citrix Read	y/HDX Ready		Microsoft
Model	OS Version	Horizon View Client 2.0/5.3	Horizon View Client 1.7	Horizon View 5.1/5.2 (View Client 1.5)	Horizon View 5.0 (View Client 1.4)	XD 5.6	XA 6.5	Zero Client	ViaB 5.x	RemoteFX Logo
t310	No Operating System	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A
t410	HP Smart Zero Client	Certified	Certified	Certified	N/A	N/A	N/A	Certified	N/A	Certified
t410 Ai0	HP Smart Zero Client	N/A	Certified	Certified	N/A	HDX	HDX	Certified		Certified
t510	HP Smart Zero Client	Certified	Certified	Certified	N/A	HDXP	HDXP	Certified	Certified	N/A
t510	HP Thin Pro	Certified	Certified	Certified	N/A	HDXP	HDXP	N/A	Certified	N/A
t510	Windows Embedded Standard 2009	N/A	N/A	N/A	Certified	HDXP		N/A	Certified	Certified
t510	Windows Embedded Standard 7	N/A	N/A	N/A	Certified	HDXP	HDXP	N/A	Certified	N/A
t610	HP Smart Zero Client	Certified	Certified	Certified	Certified	HDXP	HDXP	N/A	Certified	N/A
t610	HP Thin Pro	Certified	Certified	Certified	Certified	HDXP	HDXP	N/A	Certified	N/A
t610	Windows Embedded Standard 2009	N/A	N/A	N/A	Certified	HDXP	HDXP	N/A	Certified	Certified
t610	Windows Embedded Standard 7	N/A	N/A	N/A	Certified	HDXP	HDXP	N/A	Certified	N/A
t610	Windows Embedded 8 Standard	N/A	N/A	N/A	N/A	HDXP	HDXP	N/A	Certified	N/A
mt40 mobile	Windows Embedded Standard 7	N/A	N/A	Certified	N/A	HDXP	HDXP	N/A	Certified	N/A

HDX – HDX Ready

HDXP – HDX Premium Ready

 $\ensuremath{\text{N/A}}-\ensuremath{\text{Certification}}$ is not applicable to this device

For more information visit

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