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HP Thin Client Portfolio

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HP Thin Client Family data sheet



HP Thin Client Portfolio



Enjoy simple flexibility and true PC performance with the latest, standards-based hardware, open software platforms and complete, global solutions with HP Thin Clients.

The simple, flexible performance of HP's industry-leading 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

HP t310 -Zero in on a better VMware client.

Don't settle for sub-par performance in your VMware environment. HP now offers the HP t310 Zero Client, designed for uncompromised performance and higher security for VMware. 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 fiber NIC add extra layers of security. Deploying the t310 in your current environment is easy. Its Tera2 PCoIP silicon is optimized for VMware, so no operating system updates or CODECs to manage.



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 DM8148 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 web browser. Platforms available include the t410 AiO and the t410.



HP Flexible Thin Clients

For performance and optional 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 2GB or 4GB DDR3-1600 RAM memory capacity³, flexible thin clients provide a more robust, dependable thin client experience. Enjoy native support for dual- and quad- digital displays and hardware accelerated multimedia. Quick-configuration tools, and optional integrated enterprise-class wireless⁴ make IT experiences easier. Choose Microsoft Windows Embedded Standard 7, Microsoft Windows Embedded Standard 2009, HP ThinPro operating system, or HP Smart Zero Technology. With the new 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 and Terminal Emulation. Platforms available are the: HP t510, HP t610, and HP t610 PLUS.



HP Mobile Thin Client

The HP mt40 Mobile Thin Client provides medium and large businesses with manageable and affordable mobility and enhanced security. Protect your business and minimize data risk by storing sensitive files on a centralized server. The bead-blast aluminum display enclosure and magnesium-reinforced ABS chassis give added durability. Battery options and shared docking capabilities with HP notebooks provide dependability and flexibility.

If mobility is your motive, 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 and enjoy PC-like performance for viewing digital graphics and media. Improve the quality of your connection⁴ even when telecommuting or using bandwidth-hungry apps with HP Velocity software. The bead-blast aluminum display enclosure and wear-resistant finish polish this HP thin client with a professional, lightweight design. Add flexible battery options for a mobile thin client that keeps up with your schedule.

HP 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. The HP Easy Tools console accomplishes thin client setup and configuration in just minutes. It also reduces the need for training or manuals with quick-reference tips that guide you through the process. HP Device Manager dramatically simplifies device deployment, task automation, compliance management, and policy-based security management so you can manage up to thousands of devices with ease. Now, with the newly released HP Imaging Plug-In for Microsoft Windows Embedded Device Manager 2011, customers can easily manage HP's Windows Embedded Standard 7 based thin client.

HP Velocity

Reduce poor network connectivity in densely populated work environments with HP Velocity, a new HP feature. As network conditions change, HP Velocity reacts to maintain high quality performance.

HP Thin Client Portfolio

Series	Zero	Smart Zero		Flexible		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/RAM ³	512 MB DDR3	2 GB eMMC	1-16GB/2-4GB	1-16 GB/2-4 GB	1-16 GB/2-4 GB (4 GB required for WES 7 quad-head configurations)	16 GB SSD
Video and audio (All HP desktop thin clients support widescreen resolutions and headphone/mic)						
Maximum resolution ⁷	1920 x 1200 2560 x 1600	t410 AiO 1366 x 768 t410 1920 x 1200	1920 x 1200	2560 x 1600	2560 x 1600	2560 x 1600
Monitor support ⁶	DVI-I and DVI-D	DVI-I and DVI-D native; with DVI-I-to-VGA adapter included in carton Note: Adaptor not included with t410	DVI-I and DVI-D native; DVI-I-to-VGA adapter included in carton	DVI-I and DisplayPort with DVI-to-VGA adapter included in carton	DVI-I and DisplayPort with DVI-to-VGA adapter included in carton; optional graphics configurations up to 6 monitors	Dual: VGA and DP v1.1a High-definition displays
Touchscreen support ⁸	No	No	Yes ⁷	Yes ⁷	Yes ⁷	No
Networking						
Integrated 802.11 wireless ⁴	N/A	No	Broadcom 802.11 a/b/g/n on select models	Broadcom 802.11 a/b/g/n with dual, internal antennas on select models		a/b/g/n
I/O and expansion						
Serial/Parallel /PS2/USB	0/0/0/4	4 USB 2.0, 1 microphone, 1 headphone, 1 RJ-45, 1 power connector	1/1/2/6	1/0/2/6 (2x USB 3.0; 4x USB 2.0)	PLUS chassis: 2/1/2/6 (2x USB 3.0; 4x USB 2.0)	2 USB 3.0 ports, 1 USB 2.0 port, 1 eSATA/
Slot expansion options ⁹	No	No	No	No	1 HH PCIe x4 card slot in HP t610 PLUS models	Express Card/54 slot
HP cable lock slot	No	Yes	Yes	Yes	Yes	Yes
Environmental certifications						
ENERGY STAR®	N/A	Yes	Yes	Yes	Yes (except quad-head or higher configurations)	N/A
EPEAT® ¹⁰	N/A	Gold	Gold	Gold	Gold (except quad-head or higher configurations)	N/A
Low Halogen	N/A	Yes	Yes	Yes		Yes

HP Thin Client Portfolio

Software specifications	Windows Embedded Standard 7 ¹¹	Windows Embedded Standard 2009	HP ThinPro	Windows Embedded CE 6.0	HP Smart Zero Technology ¹²
Applications					
ICA/RDP	•	•	•	•	•
VDI brokers, including HP Session Allocation Manager (vary by OS)	•	•	•	•	•
HP Remote Graphics Software	•		•		
HP TeemTalk Terminal Emulation	•	•	•	•	
X Windows			•		
Debian Package Manager			•		
Java Virtual Machine		Add-on		From server	
API compatibility		Win32	Linux	CE	
Local browser		Full Internet Explorer	Local Web Browser	Basic Internet Explorer	
Media player	•	•		•	
PDF Reader	•	•	•		
ThinPrint .print client (TCP/IP)		Available directly from vendor	•	•	
Security					
File protection		Enhanced Write filter or File-based Write Filter	Read only file system	Limited access file system	Downloads firmware at boot
Locked configuration/accounts	•	•		•	Downloads configuration at boot
Firewall		Microsoft Firewall			
Smart Card support	•	•	•	•	•
Management					
HP Device Manager	•	•	•	•	•
Available Platforms	HP t510, HP t610, HP t610 PLUS, and mt40	HP t510, HP t610, HP t610 PLUS	HP t510, HP t610, HP t610 PLUS	HP t510	HP t410, t410 AiO, HP t510, HP t610

1. Based on comparison on 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.
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.
6. 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 OS.
7. 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.
8. Touchscreen support varies by OS. HP t510, HP t610 and HP t610 PLUS with ThinPro and Windows Embedded Standard 7 2009. HP t510, HP t610 and HP t610 PLUS with Windows Embedded Standard 7.
9. Options sold separately. Availability varies by country.
10. EPEAT® Gold or Silver where HP registers thin client products. See epeat.net for registration status in your country.
11. Windows Embedded Standard 7 products require 8 GB or more Flash memory. Windows Embedded Standard 7 supports Universal Print Driver.
12. Configurable for one protocol at a time.

For more information visit
hp.com/go/thincomputing

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