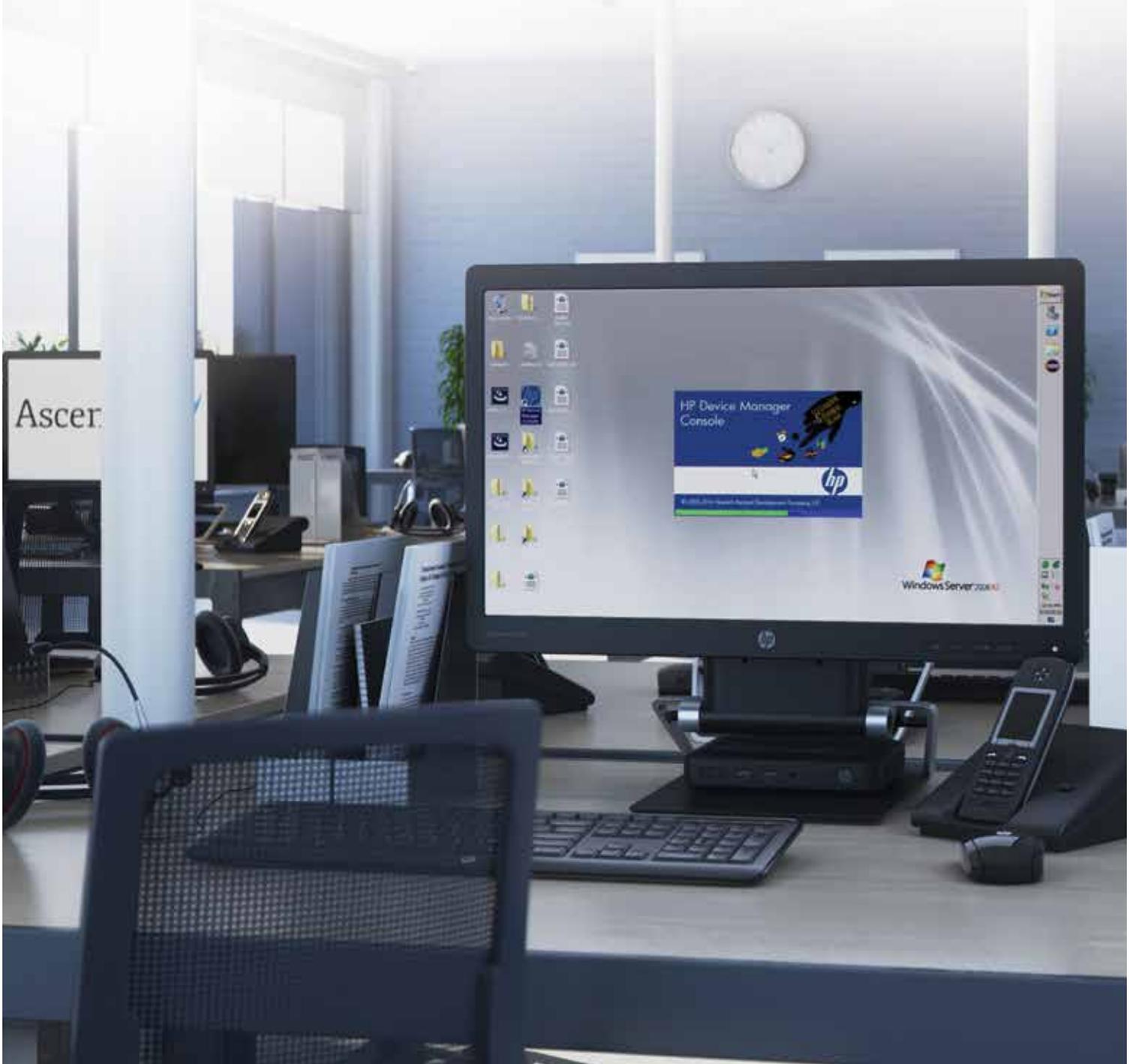


Brochure



# HP Thin Clients with AMD technology

Powerful, reliable performance. Seamless integration.





## HP and AMD—a winning combination in virtualization

Get high-fidelity, no-hassle connectivity to your virtualised desktops and applications with the latest client software and certifications. HP and AMD have joined forces to deliver thin client solutions that can go the distance. Together, we combined advanced power-smart processing, expansive display capabilities, comprehensive software and firmware testing, a sleek design, and world-class support.<sup>2</sup>



- AMD Embedded SOC processors combine a CPU, a GPU, and an I/O controller onto one die to improve data transfer rates and save space on the motherboard. These processors fit in the compact form factors designed by HP.
- HP builds on the graphics capabilities of AMD Embedded SOC's with an expansive array of connectors that support high-definition, high-quality, multi-display video.<sup>2</sup>

AMD and HP work together with leading ISVs, such as VMware®, Citrix® and Microsoft, to certify that their applications work with our thin clients, even in demanding environments.



## HP Thin Clients

HP Thin Clients feature AMD processing technology to offer a powerful and seamless desktop experience, enhanced security, and premium client virtualization. Stay productive with advanced screen space, speed, and performance thanks to a world-class hardware and software relationship. Support multiple monitors<sup>1</sup>, get ample I/O connectivity and deploy ultra-quiet install bases with fanless cooling<sup>2</sup> designs. Get workstation-class performance without a workstation on every desktop.

The energy-efficient HP Thin Clients are versatile and rival the PC user experience with great speed and convenience. Your investment delivers added value—top application support, increased productivity, and essential software. IT managers get critical management tools, maximum security, and peace of mind. Stay future-ready with a long lifecycle and global support.



**HP t420 Thin Client**



## HP t420 Thin Client

Do more with an affordable cloud computing solution that's reliable and easy to use.

- Get your daily tasks done with the AMD Embedded G-Series GX-209JA SOC (system-on-chip) processor (1 GHz, 2 cores) and integrated AMD graphics.<sup>3</sup>
- Choose from a variety of today's essential operating systems and get support for Voice over Internet Protocol (VoIP) with Skype for Business Unified Communications tools.<sup>4</sup>
- Easily deploy, manage, and optimise your new system with value-added integrated software from HP.
- Get reliable flash memory storage and a fanless design for ultra-quiet deployments.
- Maximise your office space with the 0.88 litre form factor that is VESA mount compatible. Hide it away behind an HP ProDisplay, inside an HP Integrated Work Center Stand<sup>1</sup> or on top of a flat surface.<sup>1</sup>
- Let HP help you customise your thin client image with your choice of branding, applications, Graphical User Interface (GUI), and hardware compatibility.<sup>5</sup>

For more information, visit [hp.com/go/t420](http://hp.com/go/t420)



**HP t520 Thin Client**

## HP t520 Thin Client

Maximise your productivity with the latest thin client technologies packed into a sleek, new, fanless industrial design that brings a modern touch to a range of environments.

- Stay on task with AMD Embedded GX-212JC SOC and AMD Radeon™ HP 8000 Graphics<sup>3</sup>, up to 8 GB DDR3 RAM on one connector, and storage up to 64 GB.<sup>6</sup>
- Enjoy dual-display<sup>1</sup> productivity with two DisplayPort 1.2 ports and one VGA port. Get fast connections to your peripherals<sup>1</sup> with six USB ports.
- Pick the communication technology that's best for you with Gigabit Ethernet and support for wireless 802.11a/b/g/n or Bluetooth®.<sup>7</sup>
- Get essential user experience and integrated HP management software, like HP Device Manager, HP Velocity, and HP True Graphics<sup>8</sup> at no additional cost.

For more information, visit [hp.com/go/t520](http://hp.com/go/t520)



**HP t620 Thin Client**



**HP t620 PLUS Thin Client**

## HP t620 Thin Client and HP t620 PLUS Thin Client

Step up to a powerful and seamless desktop experience, enhanced security features, and premium client virtualization. Choose the HP t620 form factor that suits you best.

- Put data centre security on every user's desktop. Integrated and optional hardware and software security solutions include BIOS implemented to NIST guidelines, Trusted Platform Module (TPM), fiber NIC communications, and lockable port covers.<sup>2</sup>
- Select the processing performance you need with your choice of CPUs, including AMD GX-217GA Dual-Core APU with AMD Radeon™ HD 8280E Graphics (1.65 GHz), AMD GX-415GA Quad-Core APU with AMD Radeon™ HD 8330E (1.5 GHz), and AMD GX-420CA Quad-Core APU with AMD Radeon™ HD 8400E Graphics (2.0 GHz).<sup>9</sup>
- Maximise screen space with support for up to four displays<sup>1</sup> using DisplayPort 1.2 connectivity for high on-screen resolution.<sup>10</sup> AMD's 2D and 3D graphics capabilities provide stunning visual experiences for thin clients.<sup>11</sup>
- Increase deployment flexibility with optional wireless 802.11a/g/n networking with dual internal antennas plus Bluetooth® connectivity.<sup>7</sup>
- Get essential user-experience and integrated HP management software, like HP Device Manager, HP Velocity, HP Easy Shell<sup>12</sup>, and HP True Graphics<sup>8</sup> at no additional cost.

For more information, visit [hp.com/go/t620](http://hp.com/go/t620)



**HP t730 Thin Client**

## HP t730 Thin Client

Say goodbye to add-ons, extras, and optional features. Welcome the world's first thin client with native support for quad UHD/4K displays<sup>13</sup> and support for up to six UHD/4K displays with an optional AMD FirePro™ graphics card.<sup>14</sup>

- Conquer your day with AMD's next-generation quad-core<sup>15</sup> APU with Turbo Core technology that can throttle CPU action and kick it up to 3.6 GHz to full performance VDI and local applications.
- Get essential user-experience and integrated HP management software like HP Device Manager, HP Velocity, HP True Graphics<sup>8</sup> and HP Easy Shell<sup>12</sup> at no additional cost.
- Support your business with advanced I/O connectivity from a range of legacy ports and PCI Express x4 low profile expansion slots.
- Get access to unified communications solutions like Skype for Business<sup>4</sup>, be able to support screen sharing, video chatting, instant messaging, and more.

For more information, visit [hp.com/go/t730](http://hp.com/go/t730)



**HP mt42 Mobile Thin Client**

## HP mt42 Mobile Thin Client

Get a hold of the world's<sup>16</sup> thinnest, lightest, and most powerful quad-core mobile thin client.

- Stay on the go in style with a lightweight and stylish design that includes an HD display and an extra-wide hinge range for more viewing options.
- Power through heavy workloads with AMD's robust quad-core<sup>15</sup> A8 PRO-8600B processing technology with Radeon™ R6 Graphics.
- Don't forget about HP's exclusive value-added software, including HP Device Manager, HP Velocity, and HP Easy Shell<sup>12</sup> at no additional cost.
- Choose from HP's top virtual ecosystem partners; Citrix, VMware, and Microsoft provide a secure and reliable VDI environment.
- Work in an accident approved environment with the HP mt42, designed to pass MIL-STD-810G testing<sup>17</sup> and built with a spill-resistant keyboard.

For more information, visit [hp.com/go/mt42](http://hp.com/go/mt42)



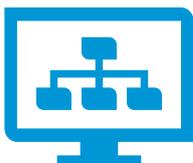
**HP mt245 Mobile Thin Client**

## HP mt245 Mobile Thin Client

Mobile cloud computing is easier and more flexible than ever. Get started with professional cloud features and on-the-go management software tools built right in.

- Don't slow down. Power through your day with quad-core AMD A6-6310 APU processing technology (1.8 GHz, up to 2.4 GHz) and Radeon™ R4 Graphics.<sup>3</sup>
- Keep your business moving and maximise your IT time with familiar Windows Embedded Standard 7P tools, programs, and resources.
- Protect against unauthorized updates and viruses with Windows Write Filter, and safeguard your confidential information and hard work.
- Get essential user-experience and integrated HP management software, like HP Device Manager, HP Velocity, and HP Easy Shell<sup>12</sup> at no additional cost.
- Be ready for change in any environment with a VDI-optimised thin client, easy software installation, and common driver support for peripherals, printing and more.

For more information, visit [hp.com/go/mt245](http://hp.com/go/mt245)



## Eliminate desktop stresses

HP Thin Clients come with essential, HP-exclusive software for easy management and hassle-free maintenance. HP innovations in chassis design improve durability and system longevity. Expect fewer technology refreshes and go the distance with HP engineering. When you need us, we're here. Get HP world-class service and support, plus standard limited warranties.

- Get a great user experience for remote desktops and virtualised applications. HP Velocity software improves performance for remote and branch offices by addressing speed-killing bottlenecks like packet loss, network latency, and Wi-Fi congestion.
- Make it easy to deploy, manage, and maintain your install base with HP Device Manager. Quickly and efficiently deliver add-ons, drivers, and Service Pack updates across your whole environment, on-site or remotely, with just a few clicks.
- Make your HP Thin Client Windows Embedded user experience easier than ever with HP Easy Shell.<sup>12</sup> Customise the intuitive interface and level of protection. Get targeted control at no cost and make the most of your cloud, VDI, and kiosk environments.
- View and manipulate cloud-based 3D<sup>11</sup> multimedia with HP True Graphics<sup>8</sup> – a rich content acceleration software for virtual desktops. Get smooth video, high frame rates, and real-time keyboard and mouse interactivity for an enhanced user experience.

- Advanced passive cooling eliminates bulky and noisy fans, and HP Active Thermal Management helps prolong the lifespan of components.<sup>2</sup>
- Enjoy the security of global deployments and access to HP's worldwide service network. Configure your deployment to provide a powerful, seamless desktop experience for your end users.

**To learn more about HP Thin Clients, visit**  
[hp.com/go/thin](http://hp.com/go/thin)

**To learn more about AMD, visit**  
<http://www.amd.com/en-us/solutions/embedded>

<sup>1</sup> Each sold separately.

<sup>2</sup> Features vary by model.

<sup>3</sup> Multi-core processing available with AMD technology is designed to improve performance of this system. Given the wide range of software applications available, performance will vary.

<sup>4</sup> Skype for Business requires subscription from Microsoft. See <http://www.skype.com/en/business/> for complete details.

<sup>5</sup> Minimum purchase required. See product QuickSpecs for exact details.

<sup>6</sup> 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.

<sup>7</sup> Wireless access point and internet service required. Availability of public wireless access points limited.

<sup>8</sup> HP True Graphics requires an HP Thin Client with an HP ThinPro 5.0 or higher operating system, AMD processing technology, and a Citrix virtual desktop infrastructure —must be XenApp or XenDesktop v7.0 or higher. HP True Graphics is preinstalled on the OS starting with HP ThinPro 5.2.

<sup>9</sup> Standard chassis offers AMD GX-217GA Dual-Core APU at 1.65 GHz with AMD Radeon™ HD 8280E graphics or AMD GX-415GA Quad-Core APU at 1.5 GHz with AMD Radeon™ HD 8330E graphics. PLUS chassis is available with AMD™ GX-420CA Quad-Core APU at 2.0 GHz with AMD Radeon™ HD 8400E graphics. Multi core processing with AMD technology is designed to improve performance of this system. Given the wide range of software applications available, performance will vary. AMD's numbering is not a measurement of clock speed.

<sup>10</sup> DisplayPort 1.2 supports dual monitors up to 2560x1600 resolution. Optional VGA port factory configuration is available. Factory configuration with four-head monitor support for up to 2560 x 1600 resolution is available only on the PLUS chassis with the DisplayPort 1.1a. Additional cables are required.

<sup>11</sup> 3D content required to view 3D images.

<sup>12</sup> HP Easy Shell is currently available on Windows Embedded Standard 7E, Windows.

<sup>13</sup> Based on HP's internal analysis as of October 26, 2015. Includes standard support for four UHD/4k displays from one GPU.

<sup>14</sup> AMD FirePro W2100 Graphics Card sold separately as an optional feature. Monitors sold separately.

<sup>15</sup> 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 system required. 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.

<sup>16</sup> Comparison as of August 14, 2015 based on mobile thin clients with sales > or = 5,000 units in 2014. Competitive information taken from vendors' publicly available websites on August 12, 2015. Vendor number of sales source: IDC 2015Q2 Historical Release; WW Quarterly Enterprise Client Device Tracker published August 13, 2015.

<sup>17</sup> MIL-STD testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL-STD test conditions and accidental damage requires optional HP Accidental Damage Protection Care Pack.

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