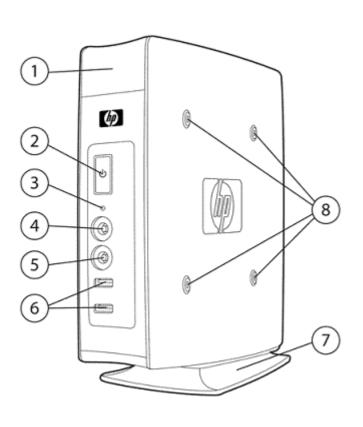
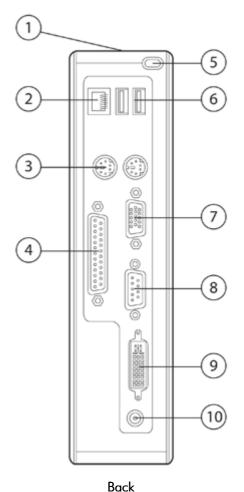
Overview

Introduction

The HP t5540 Thin Client delivers a great desktop experience for general office applications or your specific line of business software. This unit's enhanced features make it ideal for mainstream business use, with support for legacy ports, ICA, RDP, terminal emulation, Windows Media Player, Internet Explorer and viewers for Microsoft Office 2003 Excel, Powerpoint, and Word. The t5540 is designed for more secure, convenient access to traditional Terminal Services, Citrix solutions, VMware solutions, and HP Blade Workstations. Easy Update and Easy Config utilities make setup a snap.





Front

- 1. Secure USB compartment (2 USB connectors)
- 2. Power button with LED
- 3. Flash storage activity indicator
- 4. Audio connector (mic in)
- 5. Audio connector (headphone out)
- 6. USB connectors (2)
- 7. Vertical stand (removable)
- 8. VESA mounting points (4) (standard in Germany only; available as an option in other countries)

1. Cable lock slot

- 2. 10/100/1000 Ethernet RJ-45 connector
- 3. PS/2 connectors (2)
- 4. Parallel port
- 5. Cable management feature
- 6. USB connectors (2)
- 7. VGA connector
- 8. Serial port
- 9. DVI-D connector
- 10. +12V DC power input



Overview

At A Glance

- Microsoft® Windows® Embedded CE 6.0 R3 operating system
- VIA Eden 1 GHz processor for great performance
- 512 MB System memory (64 MB reserved for video)
- 128 MB Flash memory
- Includes one parallel, one serial, two PS/2, and six USB 2.0 ports (two in back, two in front, and two in secure USB compartment great for safeguarding USB wireless and Flash devices)
- MIC in and Audio out ports in front
- Built in dual monitor support (VGA and DVI-D native)
- ENERGY STAR® qualified
- HP Easy Update makes it quick and easy to identify and choose the latest image and add-on settings helping get up, running and productive faster than ever before.
- HP Easy Config Utility makes it easier to configure as a VMware View, Citrix XenDesktop, or web appliance.
- HP Device Manager lets you remotely manage client devices from a central location
- HP's alliance with Altiris brings a leading management solution to the thin client market. Altiris Deployment Solution's standards-based, advanced thin client management solution helps reduce the costs of deploying, updating, and maintaining your thin clients. A free client license is included with each HP thin client.
- Exclusive HP ThinState Tools offers in-box, easy-to-use image deployment and recovery tools
- Support for HP Client Automation for quick and easy deployment of images and thin client management. HP Client Automation Starter Edition is available as a free download. For more details visit: www.hp.com.
- HP Total Care Warranty and Services: limited three-year hardware warranty in most regions. HP Care Pack Services extend service contracts which go beyond your standard warranties. For more details visit: www.hp.com/go/lookuptool.



Models

VA213AA #ABA Model Name HP t5540 Thin Client
Processor VIA Eden 1 GHz
VA213AT#ABA

(SmartBuy or Promo) Flash 128 MB

System Memory 512 MB (64 MB reserved for video)

Mouse (USB or PS/2) varies by region



¹ Product complies with U.S. Trade Agreement (TAA). Available in U.S only.

Options

Accessories	NOTE: Options are available as separate purchase ¹ HP Quick Release Kit HP Quick Release/VESA Panels Kit HP Integrated Work Center Stand 50 Watt External Power Supply	Part Number EM870AA FV248AA GN783AA FJ851AA#ABA
Third-party Communications	Belkin Wireless G USB Adapter ^{2,3} (Security: WEP, WPA & WPA2 only) (North America, Singapore, Hong Kong, Malaysia, Philippines, India, Korea, China, Taiwan, Australia, New Zealand) NOTE: Supported under Windows CE 5.0 only, will not work with Windows CE 6 To order, visit www.belkin.com, search for HP4050, and order online	Belkin part number: HP4050
	Belkin Wireless G USB Adapter ^{2,3} (Security: WEP, WPA & WPA2 only) (Germany, Netherlands, Spain, Italy, France, Poland, Hungary, Czech, Russia, Bulgaria, Romania, United Kingdom, Sweden/Scandinavia) NOTE: Supported under Windows CE 5.0 only, will not work with Windows CE 6 To order, visit www.belkin.com, search for HP4050ea, and order online	Belkin part number: HP4050ea
	HP Neoware NA USB Wireless Adapter3 (US only; not certified for use in Latin America or Canada) Security: WEP except 256-bit, WPA & WPA2 only NOTE: Supported under Windows CE 6 only	AK256AA
	HP Neoware EMEA USB Wireless Adapter3 (EMEA and Taiwan; not certified for use in Russia or Belarus) Security: WEP except 256-bit, WPA & WPA2 only NOTE: Supported under Windows CE 6 only	AK257AA
Touch Screens	ELO Touch 1529L Flat Panel ² HP L5006tm LCD Touchscreen (available in selected countries)	E926109 RB146AA
Security	HP USB Smartcard Keyboard SCM USB Smart Card Reader SCR331 ² HP/Kensington Cable Lock	ED707AA 904622 PC766A
Input Devices	HP PS/2 Standard Keyboard HP USB Standard Keyboard	DT527A#ABA DT528A#ABA ED707AA#ABA
	HP USB Smartcard Keyboard HP PS/2 2-Button Scroll Mouse HP PS/2 2-Button Optical Scroll Mouse HP USB 2-Button Optical Scroll Mouse	DD440B EY703AA DC172B
Storage	External USB 2.0 Multibay II Cradle Multibay II DVD Drive (Does not support DVD play back)	PA509A PA849A



Options

Care Pack Services⁴

9x5 Next-Business-Day Advanced Exchange – 3 Years

9x5 Next-Business-Day On-Site Coverage – 3 Years



¹ The warranties for HP branded products are set forth in the express limited warranty statements accompanying such products. Although third-party products may work effectively on HP thin clients, these third-party products are provided "AS IS." HP does not support or warrant third-party products, including the interoperability of such products with HP thin clients. However, third-party manufacturers and vendors may provide their own warranties and support directly to you. Please contact the manufacturers or vendors for hardware or software support on their products.

² This is a third party product. Product, warranty and support available directly from third party vendor.

³ Wireless access point and Internet service sold separately. Roaming not supported. See Administrator's Guide for supported wireless features. Not certified or available in Asia-Pacific/Japan.

⁴ Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: www.hp.com/hps/carepack.

Technical Specifications

Memory

Processor VIA Eden 1 GHz

Chipsets VIA VX800 north/south bridge unified chip 128 MB

Flash

System Memory 512 MB (64 MB reserved for video)

Graphics VIAChrome9 HC3 Integrated Graphics Processor

> NOTE: The resolutions your monitor displays and the multi-display modes (i.e., clone, spanning, extended/independent) supported in ICA, RDP or locally may vary. The graphics controller supports

these resolutions:

Resolutions	Refresh Rates	Color Depth	
800 x 480	60 Hz	16, 32	
800 x 600	60, 75, 85 Hz	16, 32	
1024x768	60, 75, 85 Hz	16, 32	
1280x720	60 Hz	16, 32	
1280x768	60 Hz	16, 32	
1280x1024	60, 75, 85 Hz	16, 32	
1360x768	60 Hz	16, 32	
1400x1050	60 Hz	16, 32	
1440x900	60 Hz	16, 32	
1600x1200	60, 75, 85 Hz	16	
1600x1200	60 Hz	32	
1680x1050	60, 75, 85 Hz	16, 32	
1920x1200	60 Hz	16, 32	
1920x1440	60 Hz	16, 32	
Keyboard	Keyboard (USB or PS/2) varies by region		
Mouse	Mouse (USB or PS/2) varies by region		
Printer	Local and/or network printers (RDP, ICA, LPD) JetCET Print Professional and ThinPrint .print TCP client are included		
Video	VGA-type video output (DB-15) DVI-D digital video output		
Output	Internal amplified speaker, 1/8-inch mini-jack, 24-bit stereo, 192-kHz sample rate		
Input	1/8-inch microphone mini-jack, 20-bit stereo, 96-kHz sample rate		
C	I.I. I. I. I. A. I.I. A. A. A. I.I.A.		

Hardware Security

Security lock slot (cable lock sold separately) Secure USB compartment with 2 USB ports

Server Based Computing

Protocols

Audio

Input/Output/ Peripheral Support

> Citrix ICA Microsoft RDP

Networking

10/100/1000 Ethernet (RJ-45)

TCP/IP with Dynamic DNS and DHCP support

Direct connection via RS-232, Point-to-Point Protocol (PPP), Point-to-Point over Ethernet (PPPoE) VPN connection via MS Point-to-Point Tunneling Protocol (PPTP), Layer-2 Tunneling Protocol (L2TP)

Simple Network Time Protocol (SNTP)



Technical Specifications

DHCP with FTP option for automatic updates

Microsoft SMB (Server Message Block) for deploying image from a PC that has been defined as a shared

resource (No need to set up FTP Server, if this option is used)

Wake on LAN

PXE

I/O ports and connectors 6 USB 2.0 ports, 1 serial, 1 parallel, 2 PS/2, 1 RJ45, 1 VGA, 1 DVI-D, 1 headphone, 1 microphone

Resident Operating

System

Support

Microsoft Windows CE 6.0 R3

OS Languages English

Server OS Compatibility/

Citrix Presentation Server (up to 4.5) Windows 2000/2003 Server families

Windows 2008 Server

Windows 2000/2003 Server Terminal Services

Windows 2000 Advanced Server, Windows 2000 Advance Server Terminal Services

VMware Virtual Desktop Infrastructure using RDP

Session Allocation

Managers/Session

Citrix XenDesktop DDC Broker VMware View 4.0 client (broker)

VMware View Manager 3.x client (broker) **Brokers**

> VMware VDM 2.1 client (broker) Leostream Desktop Connection Broker

Software Included

Microsoft Windows CE 6.0 R3 operating system

Citrix ICA 10.x and Microsoft RDP 6.0

Microsoft Internet Explorer 6.0 for Windows CE Microsoft Windows Media Player 9.0 for Windows CE

Viewers for Microsoft Office 2003: Excel, Powerpoint, and Word

HP Device Manager 4.0 Agent

Altiris Deployment Solution (full client license). Altiris Deployment Solution (management console)

available as free download from Altiris at: www.altiris.com/hptc HP Easy Update Utility for image and add-on update and installation HP Easy Config Utility for Citrix, VMWare, and web appliance configuration

HP ThinState for image capture and redeploy

HP ThinConnect Connection Manager

HP Client Automation. For details visit: www.hp.com

TeemTalk Terminal Emulation Suite

VNC for remote control JetCET Print Professional Thinprint .print TCP client

Txtpad

See www.hp.com/support for list of available add-ons

Emulations

TeemTalk Terminal Emulator supports these emulations. SSH is supported in terminal emulation mode

allowing users to secure their connections to the host.

Emulation Terminal ID ADDS Viewpoint A2 ADDS-A2 **AIXTerm** aixterm **ANSI BBS** ansi AT&T AT 386 at386-m AT&T Dataspeed 4410 att4410



Technical Specifications

Bull BQ3107 VIP7700, VIP7760

Data General Dasher

410/412

dg410

Hewlett Packard HP700-

92/96

2392A, 2622A, 70092, 70094, 70096

Hazeltine 1500 HZ1500

IBM 3151 11, 11-28, 31, 31-28 IBM 3270 3278-2 (24x80 Mono),

3278-3 (32x80 Mono), 3278-4 (43x80 Mono), 3278-5 (27x132 Mono), 3278-2-E (24x80 Color), 3278-3-E (32x80 Color), 3278-4-E (43x80 Color), 3278-5-E (27x132 Color), 3279-2 (24x80 Color), 3279-3 (32x80 Color), 3279-4 (43x80 Color), 3279-5 (27x132 Color),

3287-1 (Printer)

IBM 5250 3179-2 (24x80 Color),

3180-2 (27x132 Mono Msg), 3196-A1 (24x80 Mono), 3477-FC (27x132 Color Msg), 3477-FG (27x132 Mono Msg), 3486-BA (24x80 Mono), 3487-HA (27x132 Mono), 3487-HC (27x132 Color),

3812-1 (Printer),

5251-11 (24x80 Mono), 5291-1 (24x80 Mono), 5292-2 (24x80 Color), 5553-B01 (DBCS Printer), 5555-B01 (DBCS 24x80 Mono), 5555-C01 (DBCS 24x80 Color)

McDonnell Douglas Prism-tty

8, Prism-12

McDonnell Douglas Prism-tty

9

 Prime PT250
 pt250

 SCO Console
 ansi

 Siemens 97801
 97801

 Stratus V102
 v102

 Tandem TA6526, TA6530
 tn6530-8

 Televideo 910
 TVI910

 Televideo 920
 TVI920

 Televideo 925
 TVI925



Technical Specifications

Televideo 950 TVI950 Televideo 955 TVI955

Unisys T27 UNISYS-TD830 Viewdata 40 VIEWDATA - 40 Viewdata 80 VIEWDATA - 80 Viewdata Split VIEWDATA - SPLIT

DEC VT PCTerm VT-PCTERM

DEC VT100 m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320,

vt340, vt420, vt510, vt520, vt525

DEC VT100+ VT100+

DEC VT500 7-bit m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320,

vt340, vt420, vt510, vt520, vt525

DEC VT500 8-bit m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320,

vt340, vt420, vt510, vt520, vt525

DEC VT 52 m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320,

vt340, vt420, vt510, vt520, vt525

VT HP220 vt220 VT UTF8 VT-UTF8 Wyse WY370 WYSE-370 Wyse WY50 WYSE-50 Wyse WY50+ WYSE-50 Wyse WY60 WYSE-60 Wyse PCTerm WYSE-PCTERM

Dimensions H x W x D Without stand 8.25 x 2.05 x 8.5 in (209.55 x 52.07 x 215.90 mm)

> With stand 8.65 x 2.05 x 8.5 in (219.70 x 52.07 x 215.90 mm)

With stand Weight (approximate) 3.40 lbs (1.54 kg) 100-240 VAC Power*

Operating voltage range 50-60 Hz Rated line frequency 50W Power output (max) 4.16A

Rated output current

(max)

Output voltage +12V DC

Environmental Operating temperature 50° to 104° F (10° to 40° C)

range

-22° to 140° F (-30 to 60° C) Non-operating

temperature range

10% to 90% operating/5% to 95% non-operating Humidity (non-

condensing)

Regulatory Compliances **Product Safety** International: IEC60950-1, 12:2005, with CB Certificate and all National

Deviations

US and Canada: UL 60950-1 / CAN/CSA 22.2 No. 60950-1-03,

Bi-National Standard for ITE Safety in the US and Canada and

published jointly by UL and CSA.

Europe: EN 60950-1, 06:2003, Information Technology Equipment



Technical Specifications

Ergonomics The product has been tested and found to comply with all applicable GS

ergonomic requirements.

RF Interference FCC Class B, CE Mark, VCCI

Warranty Three-year limited hardware warranty.

NOTE: Certain restrictions apply. Consult the HP Customer Support Center for details.



100 1/40

QuickSpecs

Technical Specifications – Environmental Data

Eco-Label Certifications & Declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

• ENERGY STAR® Category B

Additional Compliance

This product is in compliance with:

Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.

115 \/\

- Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC.
- California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

220 1/40

Energy Consumption

	115 VAC	230 VAC	100 VAC
Idle State:	13.90 W	14.32 W	13.70 W
Off Mode:	1.95 W	1.93 W	1.94 W

NOTE: This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled. NOTE: The actual power consumption at your location could vary and is dependent on many factors including, but not limited to, software load on the thin client, attached peripherals, and environmental factors.

tacto

 Heat Dissipation
 Idle State:
 47.43 BTU/hr
 48.86 BTU/hr
 46.75 BTU/hr

 Off Mode:
 6.66 BTU/hr
 6.57 BTU/hr
 6.62 BTU/hr

NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for

one hour.

This product complies with ISO standards:

- EU Directive 91/157/EEC
- EU Directive 93/86/EEC
- EU Directive 98/101/EEC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight
- Lead greater than 4000ppm by weight.

Battery size: CR2032 (coin cell)

Battery type: Lithium

Recycled material

Batteries

Product

- This product contains 0% recycled materials (by weight).
- This product is 98.1% (by weight) recyclable when disposed of properly at end
 of life.

Packaging

- The EPE foam packaging material contains at least 5% (by weight) postconsumer recycled content.
- The corrugated paper packaging materials contains at least 80% (by weight) post-consumer recycled content.
- The packaging for this product is 94% (by weight) recyclable when disposed of properly.



Technical Specifications – Environmental Data

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. From July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.



Technical Specifications – Environmental Data

Hewlett-Packard For more information about HP's commitment to the environment:

Corporate Global Citizenship Report

Environmental www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Information Eco-label certifications

www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html

ISO 14001 certificates:

www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

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