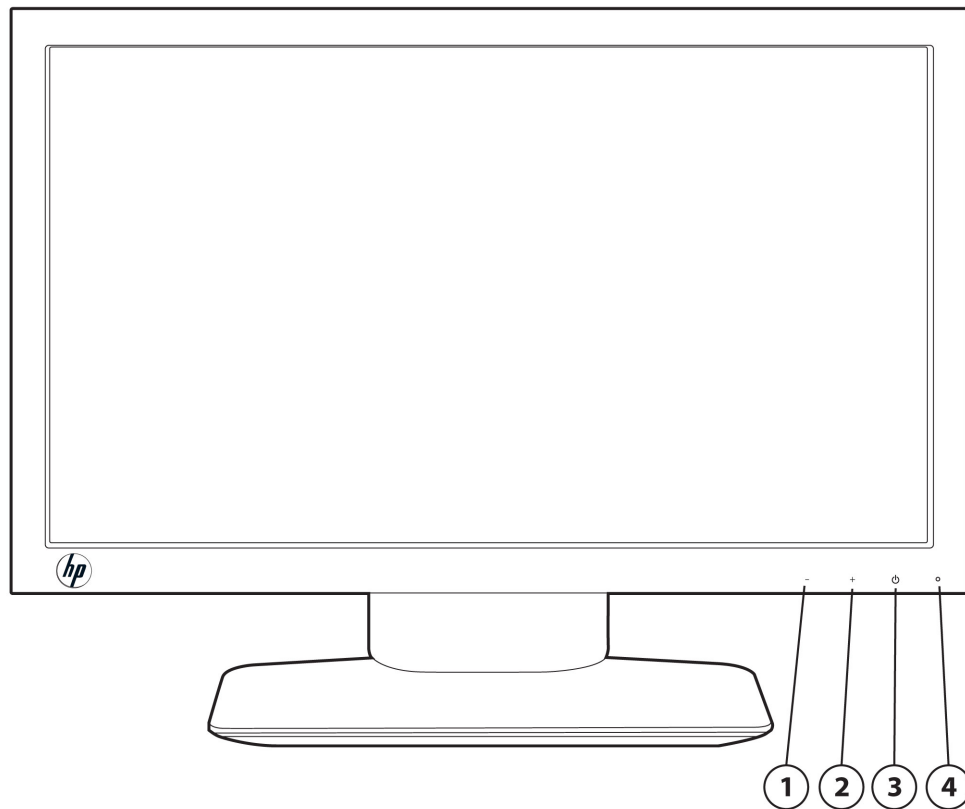


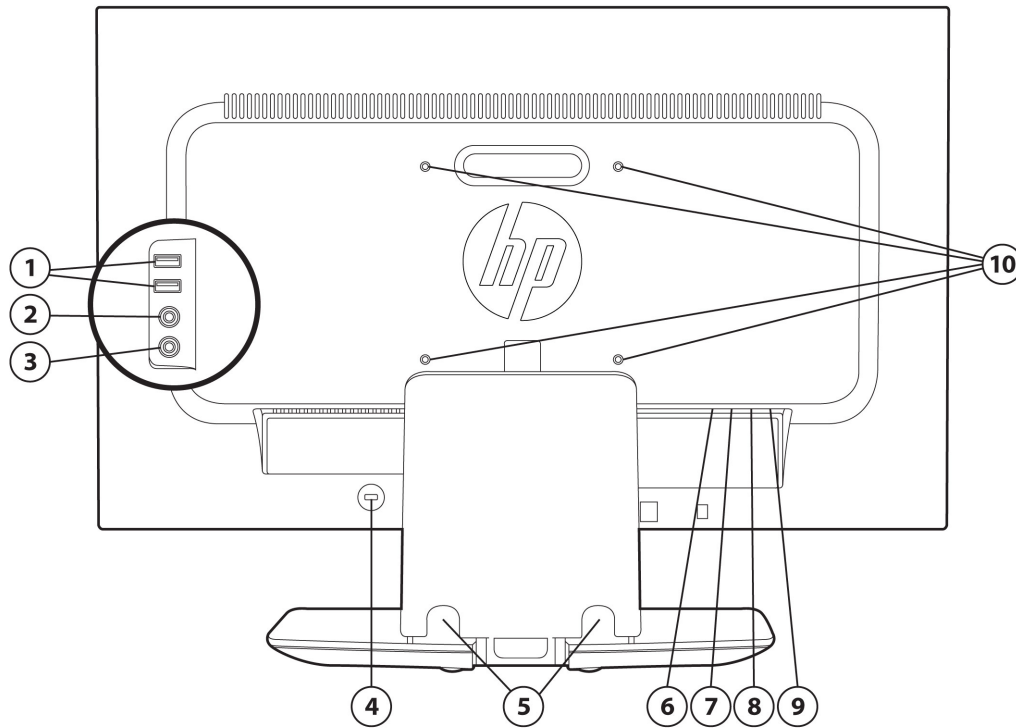
Overview



FRONT

1. Decrease display brightness button
2. Increase display brightness button
3. Power on/off button
4. Power indication LED

Overview



BACK

1. USB 2.0
2. Microphone jack
3. Headphone jack
4. Security cable slot
5. Cable routing slots
6. USB 2.0
7. USB 2.0
8. RJ-45 NIC
9. AC Power
10. 100mm VESA mounting holes

Hardware features:

- One wire: Power over Ethernet Type-1 powering both the smart zero client AND the display
- Texas Instruments TMS320DM8148 ARM® Cortex™-A8 (1 GHz, 256 KB L2 cache, 1 core) processor with Neon extensions
- 1 GB 400 MHz DDR3 SDRAM
- 4 GB embedded Multi Media Card Flash memory
- 10/100/1000 Gigabit Ethernet (RJ-45)
- 10/100 Ethernet when using Power over Ethernet (POE)
- 4 USB 2.0 ports
- 18.5-inch diagonal WLED backlit display with 3M film. Fixed resolution is 1366 x 768
- Energy Star® qualified and EPEAT® Gold registered where applicable/supported. See <http://www.epeat.net> for registration

Overview

status by country.

- Low Halogen
- Contains over 10% post-consumer recycled plastics (by weight) (confirmed)

Software features for HP Smart Zero Technology:

- Smart Client Experience
 - Fast boot, quick connect and responsive interaction
 - User boots into their host environment with no local desktop complexity
 - User preferences can be set and retained without leaving the login screen
 - On-screen controls are streamlined to eliminate desktop clutter
 - Built-in flexibility to allow switching virtualized environment via a few mouse clicks
- Microsoft Optimization:
 - Leverages both ARM and DSP capabilities of the Texas Instruments TMS320DM8148 delivering high performance end-user experience using RDP 7.1 and RemoteFX
 - Delivers a full Windows experience
 - Provides USBR and MMR capabilities with RemoteFX
- Citrix Optimization:
 - Capitalizes on the ARM capabilities with Neon extensions of the Texas Instruments TMS320DM8148 delivering high performance end-user experience using ICA and HDX
 - Leverages Citrix Receiver for ARM-based hardware
 - Enables HDX experience when connecting to a XenDesktop enabled network.
- PC over Internet Protocol (PCoIP) Optimization:
 - Takes advantages both ARM and DSP capabilities of the Texas Instruments TMS320DM8148 delivering high performance end-user experience using PCoIP
 - Implements all existing PCoIP protocol capabilities
 - Fully interoperable with all PCoIP endpoints
 - Delivers the best possible experience to every user including those with limited bandwidth
- Automatic Intelligence
 - Intelligence is automatically inherited from Smart Zero Client Services running on the backend server to enable plug-and-deploy approach
 - Support for Broadcast, or DHCP Tag enables discovering backend server
 - Leverages remote intelligence resources to minimize desktop overhead
 - Installation wizard establishes desktop environment for all devices in minutes
 - Automatic broadcast system finds Smart Client Service & delivers user desktop in seconds
 - Profile editor allows connection changes to be made in just a few clicks
 - The remote intelligence allows your client & host to put performance where it counts!
 - Seamless updates from the cloud allow users work instead of waiting for installs
- Uncompromised IT
 - Unique device purposing, choose from Citrix ICA/HDX, Microsoft RDP 7.1/RemoteFX, VMware Horizon View through RDP 7.1, or through PCoIP
 - Smart Client Service integrates with host to maintain a clean IT environment
 - Your desktop attack surface is minimized with no local apps
 - Integration with HP Device Manager to enable full Smart Zero Client monitoring and management from a single tool
- Console visibility, asset information and reboot through HP Device Manager.
 - Improved Quality of Experience for End User using HP Velocity
 - HP Velocity intelligently reduces network packet loss and retransmissions providing a better experience for the end user
 - HP Velocity enables IT managers to monitor network activity and optimize end-user experience
 - Available only on HP thin clients
- **Warranty:**

Overview

HP Total Care Warranty and Services: limited three-year hardware warranty in most regions. HP Care Pack Services extend service contracts beyond your standard warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

Technical Specifications

OPERATING SYSTEM

HP Smart Zero Technology

PROCESSOR

Texas Instruments TMS320DM8148 ARM® Cortex™-A8 (1 GHz, 256 KB L2 cache, 1 core)

- 1-GHz ARM® Cortex™-A8 RISC MPU
- TMS320C674x™ Floating-Point Digital Signal Processor (DSP)
- 256 KB L2 Unified Mapped RAM/Caches
- HD Video Processing Subsystem (HDVPSS)

NOTE: When operating in POE mode, the t410 uses smart downclocking of the CPU to conserve power in a way that is protocol-aware to minimize the effect on performance.

MEMORY

Flash (boot drive) memory 4 GB embedded Multi Media Card

System memory 1 GB DDR 3 400 MHz SDRAM

DISPLAY

18.5" diagonal WLED backlit display with 3M Display Solution and 32-bit color depth.

Fixed resolution is 1366 x 768.

The HP t410 AIO supports resolutions up to and including 1366 x 768 for Citrix ICA/HDX, Microsoft RDP 7.1/RFX, and VMware Horizon View through PCoIP.

NOTE: The largest resolution Windows Server 2008 R2 SP1 supports for RFX that will work with the HP t410 AIO is 1280 x 768.

INPUT/OUTPUT (peripheral support)

Keyboard USB

Mouse USB

AUDIO

Output Internal stereo speaker (only for system beep functions)
1/8-inch mini-jack, 16, 20, 24, or 32-bit stereo,
96 kHz sample rate

Input 1/8-inch microphone mini-jack, 16, 20, 24, or 32-bit stereo,
96 kHz sample rate

Technical Specifications

HARDWARE SECURITY

Security lock slot (cable lock sold separately)
100 mm VESA mount

NETWORKING

Hardware networking

10/100/1000 Gigabit Ethernet (RJ-45)
10/100 Ethernet when using Power over Ethernet (POE)
Wake on LAN (WOL)
PXE
TCP/IP with DNS and DHCP
UDP

Software networking

Point-to-Point Protocol (PPP) supported through PPTP VPN only
Point-to-Point over Ethernet (PPPoE) supported through PPTP VPN only
Point-to-Point Tunneling Protocol (PPTP)
Network Time Protocol (NTP)

I/O PORTS & CONNECTORS

4 USB 2.0 (two on Front, two on Rear)
1 NIC (RJ-45)
1 Microphone
1 Headphone
1 Power Connector

NOTES: Two of 4 USB 2.0 ports used for keyboard and mouse. When operating on POE, only USB devices drawing 100mA or less will function properly

SERVER OS COMPATIBILITY/SUPPORT

Client Virtualization Protocol

RDP 7.1 with RemoteFX
Citrix HDX
VMware Horizon View through RDP 7.1
PCoIP

Server OS Compatibility

Windows Server 2008 R2 SP1 or later
Windows Server 2008 R2 SP1 or later
Windows Server 2008 R2 SP1 or later
VMware Horizon View and ESXi 5 or later

SOFTWARE for HP T410 All-in-One Smart Zero Client

Technical Specifications

Host Environment		HP Smart Zero Technology
Microsoft	RemoteFX (RFX)	✓
	RDP	✓
Citrix	HDX	✓
	ICA	✓
VMware Horizon View	RDP	✓
	PCoIP	✓
Protocol Clients		Smart Zero
Citrix Receiver		12.1.4
Citrix Online Plugin		12.1.4
Microsoft Remote Desktop Client		
VMware Horizon View Client		1.7
HP TeemTalk Terminal Emulator		
Free RDP		1.0
Browser Support		Smart Zero
Mozilla Firefox		15
Security		Smart Zero
Read Only Operating System		
802.1x		✓
Enhanced Write Filter and File-Based Write Filter		
Microsoft Firewall		
Session brokers		Smart Zero
Citrix XenDesktop		✓
VMware Horizon View		1.7
Management Tools		Smart Zero
HP Device Manager		✓
HP Smart Client Services		✓
Additional Components		Smart Zero
HP Velocity		✓

LANGUAGES (MUI)

English, French, German, Spanish, Traditional Chinese, Simplified Chinese, Japanese, and Korean

DIMENSIONS (WxDxH)

With stand 17.7 x 6.26 x 13.4 in
 44.93 x 15.91 x 34.1 cm

NOTE: Dimensions are approximate

Technical Specifications

WEIGHT - Standard Chassis

With stand 8.05 lbs (3.65 kg)

NOTE: Weights are approximate

POWER

24 W AC adapter (12V DC)

Worldwide auto-sensing 100-240 VAC, 50-60 Hz

ENVIRONMENTAL

Operating temperature range	<u>Standard</u> 50° to 104° F (10° to 35° C)
Non-operating temperature range	22° to 140° F (-30° to 60° C)
Humidity	<u>Condensing</u> 10% to 90%
	<u>Non-condensing</u> 5% to 95% non-condensing

NOTE: Specifications are at sea level with altitude derating of 1° C/300m (1.8° F/1000ft) to a maximum of 3 Km (10,000 ft), with no direct, sustained sunlight. Upper limit may be limited by the type and number of options installed.

REGULATORY COMPLIANCE

Ergonomics	German ZH1/618; EN29241-3, approved
Safety	UL 60950-1; CSA C22.2 No. 60950-1-07; IEC 60950-1; EN60950-1; EK1-ITB2000
Electro-Magnetic Compatibility	EN 55022; EN55024; FCC; EN 61000-3-2; EN61000-3-3; CFR 47, Part 15; VCCI

PART NUMBERS

H2W20AA*	HP t410 All in One Smart Zero Client with Teradici Optimized PCoIP	Direct Sales
H2W20AT	HP t410 All in One Smart Zero Client with Teradici Optimized PCoIP	Channel sales/smart buy
H2W21AA	HP t410 All in One Smart Zero Client with Citrix ICA/HDX, Microsoft RDP/RFX, and VMware Horizon View with RDP or PCoIP	Direct Sales
H2W21AT	HP t410 All in One Smart Zero Client with Citrix ICA/HDX, Microsoft RDP/RFX, and VMware Horizon View with RDP or PCoIP	Channel sales/smart buy

* This SKU runs the Teradici Optimized PCoIP client without the VMware Horizon View client.

Technical Specifications

SUPPORTED PRINTERS

The following printers have been tested and confirmed to work correctly with the t410 All-in-One Smart Zero Client.

Printer	Protocol			
	RDP 7.1	Citrix	Vmware	PCoIP
LaserJet, Single functional:				
LaserJet P2035	yes	yes	yes	yes
LaserJet P2055d	yes	yes	yes	yes
InkJet, Single functional:				
HP OfficeJet Pro 8100	yes	yes	yes	yes
HP OfficeJet 7000 wide e809a	yes	yes	yes	yes
InkJet, All in One:				
HP Photosmart ink advance k510	yes	yes	yes	yes
HP Photosmart C8180 series	yes	yes	yes	yes

As additional printers are tested, this table will be updated.

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 markets:

- Energy Star® qualified and EPEAT® Gold registered where applicable/supported. See <http://www.epeat.net> for registration status by country.
- Low Halogen

ENERGY CONSUMPTION

	115 VAC (60Hz)	230 VAC (50Hz)	100 VAC (60Hz)
Idle State:	7.97 W	8.19 W	8.08 W
Off Mode:	0.48 W	0.48 W	0.42 W

NOTE: This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled. Off Mode measurements are made with WOL 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.

HEAT DISSIPATION

	115 VAC (60Hz)	230 VAC (50Hz)	100 VAC (60Hz)
Idle State:	34.05 BTU/hr	33.43 BTU/hr	33.23 BTU/hr
Off Mode:	1.50 BTU/hr	1.54 BTU/hr	1.54 BTU/hr

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

BATTERIES

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

Product

- This product contains at least 10% recycled materials (by weight).
- This product is at least 90% (by weight) recyclable when disposed of properly at end of life.

Technical Specifications – Environmental Data

Packaging

- Bamboo packaging material contains at least 30% (by weight) post-consumer recycled content.
- The corrugated paper packaging materials contains at least 80% (by weight) post-consumer recycled content.
- The packaging for this product is 100% (by weight) recyclable when disposed of properly.

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: http://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.

Technical Specifications – Environmental Data

- 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: <http://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: <http://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.

Hewlett-Packard Corporate Environmental Information

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

Global Citizenship Report:

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications:

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

Options and Accessories (sold separately)

		Part Number
Accessories	HP Quick Release Kit	EM870AA
	HP Integrated Work Center Stand	LH526AA
	HP Keyed Cable Lock (Low Halogen)	BV411AA
	HP 2620-24-PoE+ Switch	J9625A
	HP 5406-44G-PoE+-4SFP zl Switch	J9447A
	HP LCD Speaker Bar	NQ576AA
Input Devices	HP USB Standard Keyboard	DT528A
	HP USB CCID Smartcard Keyboard (Low Halogen)	BV813AA
	HP USB 2-Button Optical Scroll Mouse	DC172B
	Wireless Keyboard and Mouse	QY449AA
	NOTES: Multimedia function keys on this keyboard are not enabled for use on HP t410 All-in-One Smart Zero Client. This keyboard and mouse will function properly when the HP t410 is operating on POE.	
Security	HP USB CCID Smartcard Keyboard (Low Halogen)	BV813AA
	Gemalto PC USB-TR Card Reader ¹	HWP117685A
	Gemalto .NET v2+ Smart Card ¹	HWP115303B
		HWP115647C
	SCM SCR331 USB Smart Card Reader ¹	904054
	HP Keyed Cable Lock (Low Halogen)	BV411AA
Care Pack Services²	9x5 Next-Business-Day Advanced Exchange - 3 Years ³	331653-001; U4847E
	9x5 Next-Business-Day On-Site Coverage - 3 Years ³	331655-001; U4849E
	Hardware Installation ³	331686-001; UJ865E

¹ Option, drivers, warranty, and support are available directly from third party.

² Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Restrictions and limitations apply. For details, visit: www.hp.com/go/carepack.

³ U4847E is available in all regions; UJ865E is available in Asia-Pacific/Japan. U4849E is available in Latin America and Asia-Pacific/Japan.

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