Overview

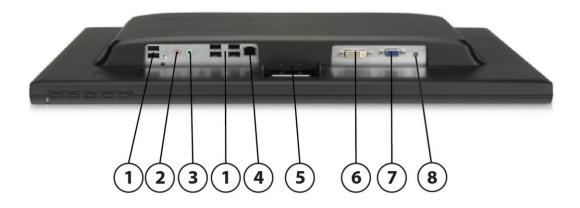
HP t310 AiO Zero Client



FRONT

- 1. Auto (Reset display to factory defaults)/Exit On Screen Display
- 2. Menu (On Screen Display)/ Select On Screen Display Items 6.
- 3. Increase volume/ Navigate On Screen Display
- 4. Decrease volume/ Navigate On Screen Display
- 5. Power on/off button
 - Power indication LED
- 7. HP Wired USB Keyboard
- 8. HP Wired USB Mouse

Overview



BOTTOM

- 1. 6 USB 2.0 ports (1 used for Keyboard, 1 for Mouse)
- 2. Audio in (Pink-microphone)
- 3. Audio out (Green headphones)
- 4. RJ45 LAN connection to host VMware for "virtual desktop"
- 5. Stand Connector
- 6. DVI-I OUT connector for 2nd monitor to "extend" desktop
- 7. VGA IN connector to attach to local host PC
- 8. AC Power



Overview



BACK

- 1. Security cable slot
- 2. 100mm VESA mounting holes



Overview

PRODUCT OVERVIEW

Maximize available workspace while saving time and money with the PCoIP-optimized HP t310 AiO Zero Client that connects users to your VMware networks and Amazon Workspaces in no time. Ready to go out of the box with an included keyboard and mouse, you can customize your all-in-one with an array of inputs that support external peripherals, a second display, Ethernet, and audiovisual interactivity. Keep all data in the data center with a thin client that transfers screens to the local user for an ultra-high level of security and easy client management.

Hardware features:

- TERA2321 PCoIP Zero Client processor
- 512 MB DDR3 1333 MT/s RAM
- 32MBFlash memory to store firmware
- 10/100/1000 Gigabit Ethernet (RJ-45)
- 23.6" diagonal widescreen LED backlit display with support for 1 additional display via DVI-I with resolutions up to 1920 x 1080
- 6 USB 2.0 ports: 1 for keyboard, 1 for mouse, 4 for other USB devices
- Contains 0% post-consumer recycled plastics (by weight)

HP PCoIP Zero Client System Features:

- Uses the TERA2321 PCoIP Zero Client Processor to provide dedicated hardware decode of the PCoIP desktop
- Delivers a high performance end-user experience using the PCoIP protocol
- Supports VMware Horizon™ DaaS[®], VMware Horizon View and Amazon WorkSpaces
- Fully interoperable with all PCoIP endpoints including PCoIP virtual desktops, PCoIP remote workstation hosts and APEX 2800 server offload cards
- Full power management with Wake-on-LAN support
- AES-128 bit or AES-256 bit encryption
- No application operating system and no persistent user data is stored on the zero client device
- Simple and quick to deploy and manage using the PCoIP Management Console (available from techsupport.teradici.com)

NOTE: Amazon Workspaces require Teradici firmware version 4.6 or higher. HP Softpaqs are available for download November 2014 at http://www8.hp.com/us/en/drivers.html.

Warranty:

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

Completely Operating System Independent

PROCESSOR

TERA2321 PCoIP Zero Client processor

MEMORY

Flash (boot drive) memory	32MB
System memory	512 MB DDR3 1333MT/s SDRAM

DISPLAY

23.6" diagonal widescreen LED backlit display with support for 1 additional display via DVI-I with resolutions up to 1920 x 1080.

8 bits
72% of NTSC (typ.)
FHD (1920x1080)
178 degree (CR>=10)
178 degree (CR>=10)
521.28
293.22
16:9
3000
0.2715 (H) x 0.2715 (V)
250cd/m2
Typical 5ms
2D
60 Hz
23.6 inch (59.9 cm)

INPUT/OUTPUT (peripheral support)

Keyboard	HP Wired USB Keyboard (standard)
Mouse	HP Wired USB Mouse (standard)

AUDIO

Output	Two 1 W Stereo speakers, 1/8-inch (3.5 mm) headphone mini-jack
Input	1/8-inch (3.5 mm) microphone mini-jack

HARDWARE SECURITY



Technical Specifications

HP Cable Lock Slot

NETWORKING & COMMUNICATIONS

<u>Hardware networking</u>

10/100/1000 Gigabit Ethernet (RJ-45) Wake on LAN (WOL) using magic packet TCP/IP with DNS and DHCP UDP

I/O PORTS & CONNECTORS

6 USB 2.0 (on the bottom) 1 NIC (RJ-45) 1 Microphone 1 Headphone 1 Power Connector 1 VGA Connector 1 DVI-I Connector

NOTE: 2 of 6 USB 2.0 ports used for keyboard and mouse.

PLATFORM

Host Support	VMware Horizon View, PCoIP remote workstations	
Protocols	PCoIP with VMware Horizon™ DaaS [®] , VMware Horizon View and Amazon WorkSpaces	
Management	PCoIP Management Console (available from techsupport.teradici.com) HP Device Manager	

NOTE: Amazon Workspaces require Teradici firmware version 4.6 or higher. HP Softpaqs are available for download November 2014 at http://www8.hp.com/us/en/drivers.html.

LANGUAGES

English, French, German, Italian, Spanish, Portuguese, Greek, Traditional Chinese, Simplified Chinese, Japanese, and Korean

DIMENSIONS (WxDxH)

With stand

21.92 x 6.45 x 15.73 in 55.68 x 16.38 x 33.97 cm

Without stand

21.92 x 2.22 x 13.37 in



Technical Specifications

55.68 x 5.65 x 33.97 cm



Technical Specifications

WEIGHT

With stand 8.78 lb (3.99 kg)

Without stand 8.07 lb (3.67 kg)

Shipping Weight 5.64 lb (2.56 kg)

POWER

65 W AC adapter (12V DC) Worldwide auto-sensing 100-240 VAC, 50-60 Hz

ENVIRONMENTAL

Operating temperature	<u>Standard</u>
range	50° to 95° F (10° to 40° C)
Non-operating	-22° to 140° F (-30° to 60° C)
temperature range	
Humidity	<u>Condensinq</u>
	10% to 90% non-condensing

(max. rate of change is 20 °C per hour or 36 °F per hour)

NOTE: *Specifications are at sea level with altitude derating of 1°C/300 m (1.8 °F/1000 ft) to a maximum of 3Km (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; cUL No. 60950-1-07; IEC 60950-1; EN60950-1; EK1-ITB2000
Electro-Magnetic Compatibility	CE (EN 55022; EN55024; EN 61000-3-2; EN61000-3-3); FCC (CFR 47, Part 15); ICES-003; VCCI

COUNTRY OF ORIGIN

Taiwan for North American SKUs China for ROW



Technical Specifications – Environmental Data

Environmental Data	Eco-Label Certifications & declarations		r is in the process of being certified to led with one or more of these marks:	the following
	Energy Consumption	115VAC, 60Hz	230VAC, 50Hz 1	00VAC, 60Hz
	Normal Operation (Short idle)	21.64 W	21.56 W	21.43 W
	Normal Operation (Long idle)	7.81 W	7.86 W	7.78 W
	Sleep	NA	NA	NA
	Off	1.86 W	1.93 W	1.85 W
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz 1	00VAC, 60Hz
	Normal Operation (Short idle)	74 BTU/hr	74 BTU/hr	73 BTU/hr
	Normal Operation (Long idle)	27 BTU/hr	27 BTU/hr	27 BTU/hr
	Sleep	NA	NA	NA
	Off	6 BTU/hr	7 BTU/hr	6 BTU/hr
	Additional Information	 service level is attained for This product is in c Substances (RoHS) This HP product is Electronic Equipme This product is in c California; Safe Dri Plastics parts weig ISO11469 and ISO This product contaction 	compliance with the Restrictions of Ha) directive - 2011/65/EC. designed to comply with the Waste El ent (WEEE) Directive – 2002/96/EC. compliance with California Proposition inking Water and Toxic Enforcement A phing over 25 grams used in the produ	zardous ectrical and 65 (State of act of 1986). act are marked per ic (by wt.)
	Packaging Materials	External:	PAPER/Corrugated	1174 g
		Internal:	PLASTIC/EPS (Expanded Polystyren	e) 190 g
			PLASTIC/Polyethylene low density	41 g
			erial contains at least 100% recycled kaging materials contains at least 100	



Technical Specifications – Environmental Data

RoHS Compliance Material Usage	 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. By 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). 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 Biphenyl Ethers (PBBEs) Polybrominated Biphenyl (PCB) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) 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 Usage	 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



Technical Specifications – Environmental Data

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 Hewlett-Packard offers end-of-life HP product return and recycling programs in and Recycling many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-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 resell HP equipment. **Hewlett-Packard** For more information about HP's commitment to the environment: Corporate Environmental **Global Citizenship Report** Information 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/en

vmanagement.html

After-market Options (Availability may vary per region)

	Description	Part Number
Display	HP ProDisplay P231 23-inch LED Backlit Monitor	E4S07AA
Security	HP UltraSlim Cable Lock HP Quick Release ¹	H4D73AA EM870AA
Mounting	HP Integrated Work Center ¹ HP Integrated Work Center ¹ NOTE 1: Screws shorter than 14mm required when using the HP Quic Integrated Work Center with the t310 AIO.	E8H16AA G1V61AA k Release or HP



Summary of Changes

Date of change:	Version History:		Description of change:
May 06, 2014	From v1 to v2	Changed	
		Added	Add document ID to footnotes section, After market options part#
		Removed	
June 28, 2014	V2 June 5 to v3 June 28, 2014	Changed	Dimensions, Weight and Temperature Range
July 15, 2014	v3 to v4	Changes	Operating Temperature
August 1, 2014	From v5 to v6	Added	Options and accessories notes
August 25, 2014	From v6 to v7	Changed	Display, Dimensions section
September 9, 2014	From v7 to v8	Added	Environmental data section
October 24, 2014	From v8 to v9	Changed	Product Overview and at a glance wording, weight
January 23, 2015	From v9 to v10	Added	Display specs and stereo support for speakers
March 23, 2015	From v10 to v11	Changed	Memory nomenclature
November 11, 2015	From v11 to v12	Removed	All Fiber instances
March 8, 2016	From v12 to v13	Removed	EPEAT and ENERGY STAR references



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