Overview

HP t240 Thin Client

Front View Image



Rear View Image



FRONT

- 1. Power button
- 2. 1 x USB-A 2.0 Type A
- 3. 1 x USB 3.1 Gen 1 port
- 4. 1 x Microphone audio port
- 5. 1 x 3.5 mm headphone audio port

BOTTOM

VESA mounting points located underneath the system's rubber foot pads

BACK

- 1. VGA analog video output
- 2. HDMI digital video output
- 3. 2 x USB-A 2.0 Type A
- 4. RJ45 Gigabit Ethernet interface
- 5. 15V DC power input
- 6. Cable lock slot





Overview

AT A GLANCE

- Intel® Atom® Processor x5-Z8350; 1.44 1.92 GHz quad-core processor
- Embedded DDR3L single-channel SDRAM system memory
 - HP ThinPro models configured with 2 GB
- Embedded Multi Media Card
 - HP ThinPro models configured with 8 GB
- 1 x VGA, 1 x HDMI 1.4b video outputs supporting up to (1920 x 1080) resolutions.
- Gigabit Ethernet (GbE) network connection supported via an integrated Realtek GbE NIC module and presented with an RJ45 connector on the rear I/O panel
- Optional Wi-Fi[®] including antennas integrated internally in the chassis¹.
- USB ports located on the front and back panels, including one USB-A 3.1 Gen 1 Type A port and three USB 2.0 Type A ports
- 3.5 mm headphone audio port on front panel that will support a headphone or an external speaker system
- 3.5 mm microphone audio port on front panel that will support a microphone
- Integrated VESA 75:100 mounting system; the four threaded holes are conveniently located under the unit's rubber foot pads
- The security features include a system UEFI designed to address NIST SP 800-147 guidelines and cable lock slot
- ENERGY STAR[®] certified.
- Post-consumer recycled plastics content greater than 25% total unit plastics (by weight)
- Low halogen²material content

¹ Wireless access point and Internet access is required; availability of public wireless access points is limited

² This product is low halogen except for power cords, cables and peripherals; service parts obtained aftermarket may not be low halogen

Warranty

HP Customer Support: limited three-year hardware limited warranty in most regions; HP Care Packs are optional extended service contracts that go beyond your standard limited warranties; for more details visit http://www.hp.com/go/cpc



Technical specifications

OPERATING SYSTEMS

HP ThinPro, including HP Smart Zero Core (Not default setting and customer need to configure)

Model	CPU Frequency base/max	x86 Cores	GPU EUs	Cache	GPU	Memory
Intel® Atom® Processor x5- Z8350	1.44/1.92 GHz	4	12	2 MB	Intel® Gen8LP 12EU, up to 500MHz	DDR3L-RS 160
DTE: CPU Maximum	frequency is based on	Intel [®] Turbo Bo	ost Technology		·	·

GRAPHICS

Number of displays supported:	One or two displays. NOTE : a maximum of two displays are supported.
12.1	1 x HDMI port
Video outputs:	1 x VGA port

NOTE: Dual displays are supported using the following video output combinations:

• HDMI + VGA

Video Resolution Support Matrix

HP ThinPro 7.1	≤2 x FHD 1920 x 1080 @ 60Hz
Static screen (no video)	\checkmark
1080p 30fps (or below) video	\checkmark
1080p 60fps video	
4k @ 30fps video	



Technical specifications

MEMORY

Туре:	Single channel DDR3L SDRAM (Soldered down)
Data Transfer Rate (speed):	up to 1,600 MT/s
Peak Transfer Rate (bandwith):	12,800 MB/s
Number of slots:	0 slots; memory is embedded
Memory Capacity:	2 GB on ThinPro models
Reserved for graphics:	Max 2 GB
NOTE. The sustem's Craphics Drosess	ing Unit (CDU) uses part of total system memory. System me

NOTE: The system's Graphics Processing Unit (GPU) uses part of total system memory. System memory dedicated to graphics performance is not available for use by other programs

UEFI (Unified Extensible Firmware Interface)

- UEFI Specification Revision: 2.3.1
- Meets requirements for Common Criteria, an independent third-party certification of trustworthiness
- Meets requirements for FIPS 140-2, a standard for cryptographic integrity
- Designed to address NIST SP800-147 guidelines

STORAGE

Type:eMMc 4.51Number of sockets:0 slots; flash storage is embeddedStorage Capacity:8 GB on HP ThinPro models

INPUT/OUTPUT

USB ports:	1 x USB 3.1 Gen 1 Type A front port and 1 x USB 2.0 Type A front port 2 x USB 2.0 Type A rear ports
Video outputs*:	1 x VGA 1 x HDMI 1.4b
Other:	1 x RJ45 GbE interface 1 x 3.5mm headphone port 1 x 3.5 mm microphone port
NOTE: 2 video output	s can be used simultaneously

NOTE: 2 video outputs can be used simultaneously



Technical specifications

AUDIO/VIDEO

Audio:	3.5 mm headphone audio port supporting headphones or and external speaker 3.5 mm microphone audio port on front panel that will support a microphone Audio CODECs include MP3, HEAAC, WMA 7/8/9 Includes hardware acceleration support
Video:	MPEG-4 part 4 (HP.263) MPEG-4 part 10 (H.264), Advanced Video Coding (AVC) WMV 7/8/9VC1 Includes hardware acceleration support

HARDWARE SECURITY

• Security lock support (slim cable lock sold separately)

NETWORKING

	Realtek Gigabit Ethernet (GbE) Wake on LAN
Wired networks:	PXE (UEFI only)
	TCP/IP with DNS DHCP

Wireless networks: AzureWave CM 276NF(Dual band 802.11 a/b/g/n/ac wireless) NGFF module

NOTE: Wireless access point and Internet access required. Availability of public wireless access point may be limited. Wireless features, performance and support may vary depending on environmental variables such as placement, settings and firmware of the access point. Contact your wireless vendor for support.



Technical specifications

SOFTWARE SUPPORT

Host Environment	Protocol	HP ThinPro HP Smart Zero Core
Microsoft Remote Desktop Services	Remote FX (RFX), RDP	\checkmark
Citrix®	ICA, HDX	\checkmark
VMware® Horizon™	RDP, PCoIP, Blast Extreme	\checkmark

Protocol Clients	HP ThinPro HP Smart Zero Core
Citrix Workspace™	\checkmark
Microsoft Remote Desktop Client	
VMware® Horizon View™ Client	\checkmark
HP TeemTalk Terminal Emulator	
Free RDP	\checkmark

Browser Support	HP ThinPro HP Smart Zero Core
Mozilla Firefox	60.5.0esr
Internet Explorer	



Technical specifications

Security	HP ThinPro HP Smart Zero Core
SmartCard	\checkmark
Logon Manager	\checkmark
Read-only operating system	\checkmark
802.1x	\checkmark
Operating system write filter	
Microsoft Firewall	

Management Tools	HP ThinPro HP Smart Zero Core
HP Device Manager	\checkmark
HP ThinUpdate	
HP Easy Tools	\checkmark
HP Smart Zero Client Services	\checkmark
Microsoft SCCM/EDM agent	

HP ThinPro HP Smart Zero Core

Audio/Video CODEC	HP ThinPro HP Smart Zero Core
MP3	✓
WMA 7/8/9/	\checkmark
HE AAC	\checkmark
Microsoft AC3 encoder	
MPEG-1	\checkmark
MPEG-4 part 2 (H.263)	\checkmark
MPEG-4 part 10 (H.264)	\checkmark



 \checkmark

Technical specifications

WMV 7/8/9/ VC-1

NOTE: Software performance and support may vary depending on customer environment and backend.

WEIGHTS & DIMENSIONS

W x D x H 110 x 110 x 30 mm				
Volume	0.3liter			
System Weight	276 g (0.61 lb.)			
Shipping Weight 1690 g (3.73 lb.)				
NOTE: All measurements are approximate; the addition of optional modules will increase the weight				

POWER SUPPLY

15W external power adapter Worldwide auto-sensing 100-240 VAC, 50-60 Hz Energy saving automatic power-down Surge tolerant

AGENCY COMPLIANCE

Environmental Stewardship:	ENERGY STAR [®] , EPEAT [®] , ROHS, ERP, CECP, HP GSE, etc.
Product Safety:	IEC60950-1, EN60950-1, UL60950-1 GS, BIS & CCC)
Electromagnetic Compliance (EMC):	FCC, EN55032 Class B, EN55024 & FCC

ENVIRONMENTAL

Operating Temperature Range:	50° to 104° F (10)° to 40° C)
Non-operating Temperature Range: -22° to 140° F (-		30° to 60° C)
Humidity:	Condensing:	20% to 80%
numury.	Non-condensing	: 10% to 90%

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.

Eco-Label Certifications &	and may be labeled with or	stered in the United States. See I	
declarations	• ENERGY STAR®	5 in your country.	
Energy Consumption (in accordance with US ENERGY STAR®) 115 V ac, 60 Hz	230 V ac, 50 Hz	100 V ac, 50 Hz



test method)

Technical specifications

Normal Operation (Long idle) 2.40 W 2.60 W 2.40 W Sleep 2.40 W 2.50 W 2.30 W Off 0.30 W 0.30 W 0.30 W 0.30 W Normal Operation (Short idle) 115 V ac, 60 Hz 230 V ac, 50 Hz 100 V ac, 5 Normal Operation (Long idle) 8 BTU/hr 9 BTU/hr 10 BTU/hr 10 BTU/hr Sleep 8 BTU/hr 9 BTU/hr 8 BTU/hr 8 BTU/hr Sleep 8 BTU/hr 9 BTU/hr 10 BTU/hr 10 BTU/hr Off 1 BTU/hr 10 BTU/hr 10 BTU/hr 10 BTU/hr Sleep 8 BTU/hr 9 BTU/hr 8 BTU/hr Sleep 8 BTU/hr 9 BTU/hr 10 BTU/hr 10 BTU/hr Additional Information • This product is calculated based on the measured watts, assuming th level is attained for one hour. • Additional Information • This product is designed to comply with the Waste Electrical and Eleculis parts weighing over 25 grams used in the product are marked 1469 and 1501043. • This product is onopliance with the EEE 1680 (EPEAT®) standard at level, see www.epeat.net Packaging Materials External: PAPER/Paperboard 427 g Internal: <	(est method)					
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Certain Azo Colorants						
 Certain Brominated Flame Retardants – may not be used as flame reta plastics 				Retardants – may not be	used as flame retardants in	

plastics



Technical specifications

- 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 HP Inc. 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/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 HP Inc. 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.



Technical specifications

HP, Inc. 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/ecol abels.html
	ISO 14001 certificates:
	http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Summary of Changes

Date of change:	Version History:	Type of change	Description of change:
June 28, 2019	From v1 to v2	Changed	Format

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