

### Overview

### HP t620 Flexible Series Thin Client



**FRONT**

1. Power button (with integrated power indicator light)
2. Flash drive activity indicator light
3. USB 2.0 connectors (two)
4. USB 3.0 connectors (two)
5. Audio connector (mic/line in)
6. Audio connector (headphone/line out)
7. Mounting points for HP Quick Release or other VESA mount
8. Removable stand for horizontal orientation



**BACK**

1. Ethernet RJ-45 connector
2. USB 2.0 connectors (2)
3. DisplayPort 1.2 ports (2)
4. PS/2 keyboard connector
5. PS/2 mouse connector
6. Option connector (may be configured as Serial, VGA, or fiber SC connector from factory)
7. Audio line in
8. Audio line out
9. +19V DC power input
10. Cable lock slot
11. Power cord retention clip

### Overview

- Multimedia and USB redirection support
  - Citrix HDX MediaStream (multimedia redirection)
  - Citrix HDX Plug-n-Play (USB redirection)
- Improved quality of experience for end users using HP Velocity
  - Available only on HP thin clients
  - HP Velocity enables IT managers to monitor network activity and optimize end-user experience
  - HP Velocity intelligently reduces network packet loss and retransmissions providing a better experience for end users located off the LAN
  
- Internet Explorer 9 for genuine Internet Explorer browsing and Web-application interfaces
- Excellent rich multimedia experience and enhanced USB device support in VDI environments
- Latest protocol support from Citrix On-Line Plug in (ICA) 4.0, RDP 8 w/RemoteFX, and VMware Horizon View Mgr 5.4 Enhanced
- Write Filter and File-Based Write Filter provide complete flexibility to protect the entire Flash disk, or configure areas of the disk for persistent access by local applications
- Microsoft Firewall for enhanced data security
- Support 802.1x LAN-based authentication for greater security
- HP Universal Print Driver provides instant access to a range of HP print devices without downloading separate
- Improved quality of experience for end users using HP Velocity
  - Available only on HP thin clients
  - HP Velocity enables IT managers to monitor network activity and optimize end-user experience
  - HP Velocity intelligently reduces network packet loss and retransmissions providing a better experience for end users located off the LAN
  
- The latest RDP8 and Remote FX client software
- Latest Internet Explorer 10 for genuine Internet Explorer browsing, HTML 5 support and Web-application interfaces
- Latest protocol support from Citrix Receiver Standard 4.0 with Storefront support, RDP 8 w/RemoteFX, and VMware Horizon View Mgr 5.3
- Excellent rich multimedia experience and enhanced USB device support in VDI environments
- Improved quality of experience for end users using HP Velocity
  - Available only on HP thin clients
  - HP Velocity enables IT managers to monitor network activity and optimize end-user experience
  - HP Velocity intelligently reduces network packet loss and retransmissions providing a better experience for the end user

### 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 SYSTEMS

HP t620 Flexible Series Thin Client models are pre-configured with one of the following operating systems.

HP ThinPro (32-bit)

HP Smart Zero Technology (32-bit)

#### GRAPHICS

AMD Radeon HD 8280E/8330E/8400E graphics (varies by model)

Mode	Color depth	Refresh rate (Hz)
800 x 600	8/16/32 bit	60, 75, 85
1024 x 600	8/16/32 bit	60, 75, 85
1024 x 768	8/16/32 bit	60, 70, 75, 85
1152 x 864	8/16/32 bit	60, 75, 85
1280 x 720	8/16/32 bit	60, 75, 85
1280 x 768	8/16/32 bit	60, 75, 85
1280 x 800	8/16/32 bit	60
1280 x 960	8/16/32 bit	60, 75, 85
1280 x 1024	8/16/32 bit	60, 75, 85
1366 x 768	8/16/32 bit	60
1400 x 1050	8/16/32 bit	60, 75, 85
1440 x 900	8/16/32 bit	60, 75, 85
1600 x 900	8/16/32 bit	60
1600 x 1200	8/16/32 bit	60, 75, 85
1680 x 1050	8/16/32 bit	60
1920 x 1080	8/16/32 bit	60, 75, 85
1920 x 1200	8/16/32 bit	60, 75
2048 x 1536 (DisplayPort, only)	8/16/32 bit	60
2560 x 1600 (DisplayPort, only)	8/16/32 bit	60

**NOTE:** This table represents a sample of possible modes that this controller is capable of displaying but various factors such as the capability and EDID information returned by the attached monitor, the interface used (DVI-I/DisplayPort or optional D-SUB with dongle), and dual monitor mode may limit the availability of modes, color depth, and/or refresh rate..

### Technical Specifications

<sup>1</sup>If you attach the primary display to the AMD 2270 video card, the BIOS post information will not be displayed to the monitor at system startup. The display will turn on when the operating system starts. To view BIOS post information, attach the primary display to DP connectors on the rear panel.

### INPUT/OUTPUT (peripheral support)

<b>Keyboard</b>	USB or PS/2 (varies by region)
<b>Mouse</b>	USB or PS/2 (varies by region)
<b>Printer</b>	Local and/or network printers (RDP, ICA, LPD)
<b>Video outputs</b>	All models include two (2) DisplayPort with multi stream video outputs

Systems can be configured with an optional VGA analog video output. When configured with the VGA output only one Displayport output is active.

t620 PLUS models can be configured with an optional AMD FirePro 2270 discrete graphics solution that provides two (2) additional digital video streams for a total of four (4) video outputs

### AUDIO/VIDEO

<b>Output</b>	Internal amplified speaker 1/8-inch stereo mini jack (headphones, on front panel) 1/8-inch stereo mini jack (line out, on rear panel) Full 24-bit stereo up to 192-kHz sample rate.
<b>Input</b>	1/8-inch mini jack microphone (on front panel) 1/8-inch stereo mini jack (line in, on rear panel) 24-bit stereo, up to 192 kHz sample rate
<b>Audio CODECS with hardware acceleration support</b>	MP3 AAC stereo & HE AAC WMA stereo
<b>Video CODECS with hardware acceleration support</b>	MPEG-4 part 2 (DivX, Xvid) MPEG-4 part 10 (H.264, AVC) WMV 7/8/9/ VC-1 & ASF Demuxer

### HARDWARE SECURITY

Security lock slot (cable lock sold separately)  
Built-in power cord retention clip

### Technical Specifications

#### NETWORKING

##### Hardware networking

Gigabit Ethernet (RJ-45)  
Wake on LAN (WOL)  
PXE  
TCP/IP with DNS and DHCP

##### Software networking

	ThinPro	HP Smart Zero Technology
Point-to-Point Protocol (PPP)		
Point-to-Point over Ethernet (PPPoE)		
Direct Connection through RS-232	X	X
Point-to-Point Tunneling Protocol (PPTP)	X	X
Layer-2 Tunneling Protocol (L2TP)	X	X
Server Network Time Protocol (SNTP)	X	X

#### WIRELESS LAN (select models)

**Adapter** Broadcom 802.11a/b/g/n Wi-Fi Adapter; Broadcom 802.11ac  
**Form Factor** PCI-Express Half Mini Card with dual, internal antennas  
**Security** Supports 64- and 128-bit WEP, WPA, WPA2, AES, TKIP

HP ThinPro and HP Smart Zero Technology:  
802.1x authentication types: EAP-TLS, EAP-TTLS, EAP-PEAP, LEAP

WES 7E:  
802.1x authentication types: EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, LEAP

#### HP Fast Ethernet Mini PCIe SC Fiber Network Interface Card (factory-installed option)

**Adapter** Allied Telesis AT-27MINI Fast Ethernet Fiber PCI Express MINI Network Interface Card  
**Available in** HP t620 standard and PLUS chassis configurations  
**Form Factor** Custom-designed card plugs into PCI-Express Mini Card slot, and mounts into device bay inside HP t620 chassis  
**Management Features** WMI, ACPI 2.0/w01, PXE 2.1 boot ROM, SNMP  
**Ethernet** IEEE 802.1p (Quality of Service)  
IEEE 802.2 (LLC)  
IEEE 802.3ac (MAC)  
IEEE 802.3u (100Mbps)  
IEEE 802.1as (Audio Bridging)  
P802.1Qav  
P802.1Qat (SRP)  
1588-2000 (PTP)  
**Network Controller** Broadcom BCM57762

### Technical Specifications

<b>Connectors</b>	SC
<b>Optical Specifications</b>	Output Optical Power -20 (min) -17 (typ) -14 (max) dBm Optical Sensitivity -34 (typ) -32 (max) dBm
<b>Maximum Cabling Distance</b>	Full-duplex Up to 2000 m (5,560 ft) Half-duplex Up to 412 m (1,351 ft)
<b>Status Indicators</b>	LED 1 port On 100Mbps link up Blink Activity Off 100Mbps link down
<b>Power consumption</b>	2 Watts (typ)
<b>Compliance</b>	RoHS, UL, FCC/EN55022 Class A, TUV, EN55024, CE, C-TICK, VCCI
<b>Supported by thin client operating systems</b>	HP Smart Zero Technology and HP ThinPro Microsoft WES 7E

### I/O PORTS, SLOTS & CONNECTORS

#### HP t620 (standard chassis)

4 USB 2.0 ports (two in front, two in rear)  
2 USB 3.0 ports (in front)  
2 USB 2.0 ports (secured inside lockable chassis)  
2 DisplayPort with multi stream (rear)  
2 PS/2 (1, KB, 1 mouse)(rear)  
1 serial (rear) or 1 VGA (rear, option) or 1 Fiber SC (rear, option provided with Fiber NIC option)  
1 RJ-45(rear)  
1 Headphone (front)  
1 Microphone (front)  
1 Audio line in (rear)  
1 Audio line out (rear)

#### HP t620 PLUS (expansion chassis)

4 USB 2.0 ports (two in front, two in rear)  
2 USB 3.0 ports (in front)  
2 USB 2.0 ports (secured inside lockable chassis)  
2 DisplayPort with multi stream(rear)  
2 PS/2(1, KB, 1 mouse)(rear)  
2 serial (rear) or 1 serial and 1 VGA (option) or 1 Fiber SC (option provided with Fiber NIC option)  
1 parallel (rear)  
1 RJ-45 (rear)  
1 Headphone (front)  
1 Microphone (front)  
1 Audio line in (rear)  
1 Audio line out (rear)  
1 Riser Card/Expansion Slot (PCIe 2nd Gen, x16 slot with x4 channels) (rear)

### SERVER OS COMPATIBILITY/SUPPORT

Citrix XenApp 5 and later  
Citrix XenDesktop 3 and later  
Citrix Presentation Server 4.0 and later  
Windows Server 2003  
Windows Server 2008r2 Terminal Services (WES only)  
Windows 2012 Server Remote Desktop services  
VMware Horizon View Virtual Desktop Infrastructure

### SOFTWARE for HP t620 and HP t620 PLUS

Host Environment	Protocol	Smart Zero	ThinPro	WES 7E
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### Technical Specifications

Microsoft Remote Desktop Services	RemoteFX (RFX)	✓	✓	✓
	RDP	✓	✓	✓
Citrix	ICA	✓	✓	✓
	HDX	✓	✓	✓
VMware Horizon View	RDP	✓	✓	✓
		✓	✓	✓
<b>Protocol Clients</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
Citrix Receiver*		12.1.5	12.1.5	4.0
Microsoft Remote Desktop Client				8
VMware Horizon View Client*		2.1	2.1	5.4
Remote Graphics Software (RGS)			via add-on	6.0
HP TeemTalk Terminal Emulator			7.3.3	7.3
Free RDP		1.0	1.0	
<b>Browser Support</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
Mozilla Firefox		19	19	
Internet Explorer				9
<b>Security</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
Smart Card		✓	✓	✓
logon Manager				✓
Read Only Operating System				✓
802.1x		✓	✓	✓
Enhanced Write Filter (EWF)				EWF
File-Based Write Filter (FBWF)				FBWF
Microsoft Firewall				✓
Microsoft AntiMalware & Windows Defender				
<b>Session brokers</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
Citrix XenDesktop		✓	✓	✓
VMware Horizon View		1.7	2.1	5.4
Leostream Desktop Connection broker (available from vendor website)				from vendor site
<b>Management Tools</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
HP Device Manager		✓	✓	✓
HP ThinState			✓	✓
HP Easy Tools			✓	✓
HP Smart Zero Client Services		✓		
Microsoft SCCM/EDM agent				✓
<b>Additional Components</b>		<b>Smart Zero</b>	<b>ThinPro</b>	<b>WES 7E</b>
HP Velocity		✓	✓	✓
HP Connection Manager/ HP Cloud Connection Manager			✓	✓
HP Universal Print Driver				✓
Windows Media Player				12
Windows Touch (Multi-touch support)				
Multilanguage support				
Microsoft DirectAccess				
Microsoft BranchCache				