



HP mt42 Mobile Thin Client

Maintenance and Service Guide

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Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

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For any further information or to request a full refund of the price of the computer, please contact your seller.

Important Notice about Customer Self-Repair parts

 **CAUTION:** Your computer includes Customer Self-Repair parts and parts that should only be accessed by an authorized service provider. See Chapter 5, "Removal and replacement procedures for Customer Self-Repair parts," for details. Accessing parts described in Chapter 6, "Removal and replacement procedures for Authorized Service Provider only parts," can damage the computer or void your warranty.

Safety warning notice

 **WARNING!** To reduce the possibility of heat-related injuries or of overheating the device, do not place the device directly on your lap or obstruct the device air vents. Use the device only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The device and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950-1).

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1 Product description

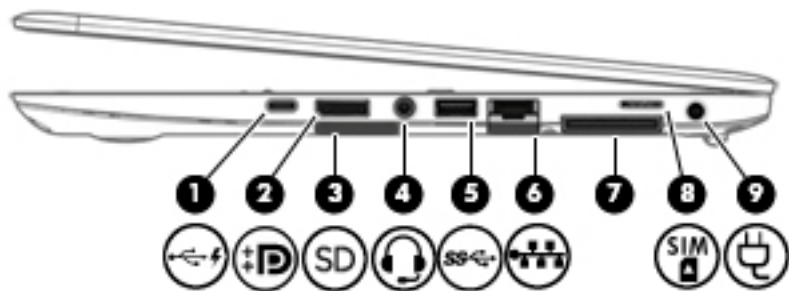
Category	Description
Product Name	HP mt42 Mobile Thin Client
Processors	AMD® Carrizo processor: A8 Pro-8600B 1.6 GHz (max turbo frequency 3 GHz), DDR3-2133, 2 MB L2 Cache, 15 W) with Radeon RX graphics
Graphics	Internal graphics: AMD UMA graphics (with shared video memory) Up to three independent displays supported with docking solution
Panel	35.6-cm (14.0-in), eDP 1.2 slim, full high-definition (FHD), AntiGlare (AG), SVA (1920 x 1080) display
Memory	Two customer accessible memory module slots DDR3L-12800 (1600 MHz) dual channel support Supports up to 4 GB of system RAM (4096 MB (4096 MB×1)) with the WES7 operating system Supports up to 8 GB of system RAM (4096 MB (4096 MB×2)) with the Windows 10 IoT operating system
Primary storage	M.2 (NGFF) 2242 solid-state drive M.2 (2242) 32 GB SATA-3
Audio and video	Conexant smart amplifier and ambient noise suppression Dual-array microphone Premium stereo speakers Webcam (720p)
Ethernet	Broadcom 5762 10/100/1000 Ethernet NIC with DASH Support S3/S4/S5 Wake-on-LAN
Wireless	WLAN Integrated wireless local area network (WLAN) options by way of wireless module Two WLAN antennas built into display assembly Supports disabled Bluetooth Intel Pro Wireless Display (WiDi Pro) Compatible with Miracast-certified devices Supports the following WLAN modules: • Broadcom 43228 dual-band 802.11abgn 2x2 Wi-Fi Adapter + BT 4.0 combo adapter • Intel 7265 802.11 AC 2x2 WiFi + BT 4.2 Combo Adapter (non-vPro) WWAN Integrated wireless wide area network (WWAN) options by way of wireless module Two WWAN antennas built into display assembly

Category	Description
	Supports the following WWAN module: • Huawei MU736 HSPA+ with GPS M.2 (NGFF) • HP lt4120 LTE/EVDO/HSPA+ SnapdragonT X5 LTE Mobile Broadband Module
External media cards	Micro SIM card reader Memory card reader (SD, SDHC, SDXC)
Ports	VGA (Dsub 15 pin) supporting 1920x1200 external resolution @ 75Hz; hot plug/unplug and auto detect USB 3.0 charging port USB 3.0 port USB Type-C port DisplayPort RJ-45 Docking connector Audio-out (headphone)/audio-in (microphone) combo jack AC port
Keyboard/pointing devices	Keyboard: Dual point Spill resistant with drain TouchPad: Gestures enabled by default: two-finger scrolling, two-finger pinch-zoom Taps enabled by default On/off button Supports 2-way scroll w/ legend Mylar
Power requirements	AC adapter: 65 W HP Smart AC adapter 45 W HP Smart AC adapter 45 W, 2-prong AC adapter Power cord: 2-wire cord, 1.0 m 3-wire cord, 1.0 m (with ground pin) 3-wire cord, 1.8 m (with ground pin)
Security	Security lock Supports Trusted Platform Module (TPM) 1.2 or 2.0 (Infineon, soldered down) Integrated Smart Card reader (active) Preboot authentication (password, smart card)
Operating system	Preinstalled:

Category	Description
	Windows Embedded Standard 7E (32-bit)
	Windows 10 IoT Enterprise 2015 LTSB for Retail and Thin Clients
	Web-only support
	Windows Embedded Standard 7E (32-bit)
Serviceability	End user replaceable parts:
	AC adapter
	Battery
	M.2 SSD
	Memory module
	WLAN
	WWAN
	Keyboard

2 External component identification

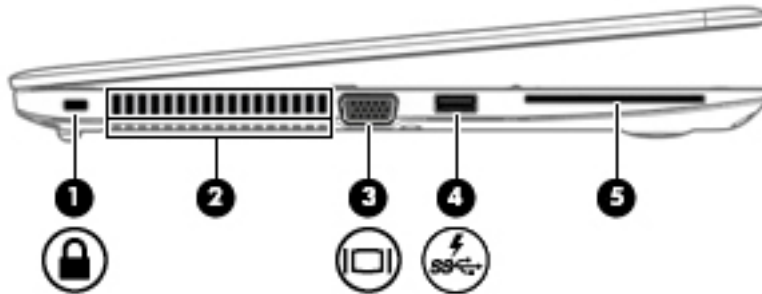
Right



Component	Description
(1) 	USB Type-C (charging) port NOTE: USB Type-C ports charge products such as cell phones, laptops, tablets, and MP3 players, even when the computer is off. Also, some USB Type-C ports connect DisplayPort, VGA, HDMI and other video devices to provide video output. NOTE: Adapters (purchased separately) may be required.
(2) 	Dual-Mode DisplayPort Connects an optional digital display device, such as a high-performance monitor or projector.
(3) 	Memory card reader Reads optional memory cards that store, manage, share, or access information.
(4) 	Audio-out (headphone)/Audio-in (microphone) jack Connects optional powered stereo speakers, headphones, earbuds, a headset, or a television audio cable. Also connects an optional headset microphone. This jack does not support optional microphone-only devices. WARNING! To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, see the <i>Regulatory, Safety, and Environmental Notices</i> . To access the user guides, select Start > HP > HP Documentation . NOTE: When a device is connected to the jack, the computer speakers are disabled. NOTE: Be sure that the device cable has a 4-conductor connector that supports both audio-out (headphone) and audio-in (microphone).
(5) 	USB 3.0 port Connects an optional USB device, such as a keyboard, mouse, external drive, printer, scanner or USB hub.
(6) 	RJ-45 (network) jack Connects a network cable.
(7) 	Docking connector Connects an optional docking device.

Component		Description
(8)		SIM slot Supports a wireless subscriber identity module (SIM) card.
(9)		Power connector Connects an AC adapter.

Left



Component		Description
(1)		Security cable slot Attaches an optional security cable to the computer. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
(2)		Vents (2) Enable airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.
(3)		External monitor port Connects an external VGA monitor or projector.
(4)		USB 3.0 charging (powered) port Connects an optional USB device, such as a keyboard, mouse, external drive, printer, scanner or USB hub. Standard USB ports will not charge all USB devices or will charge using a low current. Some USB devices require power and require you to use a powered port. NOTE: USB charging ports can also charge select models of cell phones and MP3 players, even when the computer is off.
(5)		Smart card reader Supports optional smart cards.

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