Overview

HP mt44 Mobile Thin Client



- 1. Internal microphones
- 2. Webcam (select models)
- 3. Internal microphones
- 4. Speaker grill
- 5. Click button
- 6. Clickpad

Right

- 7. Indicator LEDs (Power, Wireless, and Storage Usage)
- 8. Smartcard Reader (select models)
- 9. USB 3.1 Gen 1 charging port
- 10. Vent
- 11. Security lock slot (Lock sold separately)
- 12. Power button

Overview



Left

- 1. Power connector
- 2. USB Type-C™
- 3. Docking connector
- 4. Ethernet port

- 5. HDMI port (Cable not included)
- 6. USB 3.1 Gen 1 port
- 7. Audio combo jack
- 8. SIM card slot



Overview

AT A GLANCE

- Achieve the perfect balance of form and function with the beautifully designed HP mt44 Mobile Thin Client.
- AMD Ryzen™ 3 PRO 2300U Mobile processor with Radeon™ Vega Graphics
- Featuring HP Collaboration Keyboard with Clickpad to manage most commonly used conferencing functions with a single keystroke
- Innovative world-facing third mic that improves inbound ambient noise cancellation while 360-degree mic pick-up allows everyone to clearly hear and be heard
- Louder speakers expertly tuned by Bang & Olufsen
- Maximize data and device safety with HP SureView*, HP Privacy Camera, Smart Card reader, Finger print reader, Infra Red Camera, HP Sure Start, and HP Write Manager
- Choice of displays:
 - 14.0" FHD (1920 x 1080) UWVA, 220-nit, 45% CG, eDP, slim, AG, NB
 - o 14.0" FHD (1920 x 1080) UWVA, 220-nit, 45% CG, eDP, slim, AG, NB, Touch enabled
 - o 14.0" FHD (1920 x 1080) UWVA, 700-nit, 72% CG, eDP+PSR, uslim, AG, Privacy
- Flexible wireless connectivity options
- Preinstalled with Windows 10 IoT Enterprise
- 128 GB Flash storage and 8 GB memory
- Supports fast charging (50% in 30 minutes)¹
- Optional HD camera or Infra Red camera with multi-array microphone
- Battery life up to 12 hours
- Passed MIL-STD testing²
- 1. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 2. MIL STD 810G testing is pending and is not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- * Optional features

NOTE: See important legal disclosures for all listed specs in their respective features sections



Features

OPERATING SYSTEM

Preinstalled: Windows 10 IoT Enterprise for Thin Clients

NOTE: Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.

ACCELERATED PROCESSING UNIT

AMD Ryzen™ 3 PRO 2300U (2.0 GHz base frequency, up to 3.4 GHz burst frequency, 6 MB cache, 4 cores) with Radeon™ Vega Graphics¹

¹ Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

NOTE: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated Graphics:

AMD Radeon™ Vega Graphics

DISPLAY

Non-Touch

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB (1920 x 1080)^{1,2}

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD camera (1920 x 1080)^{1,2}

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD IR webcam (1920 x 1080)1,2

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB for WWAN (1920 x 1080)^{1,2}

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD camera for WWAN (1920 x 1080)^{1,2}

35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 220 cd/m², 45% sRGB with HD IR webcam for WWAN (1920 x 1080)^{1,2} HP Sure View Integrated Privacy Screen 35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 700 cd/m², 72% sRGB with HD IR webcam for WWAN (1920 x 1080)^{1,2,3}

Touch

35.6 cm (14") diagonal FHD IPS LED-backlit touch screen with Corning® Gorilla® Glass 3, 220 cd/m², 45% sRGB with HD IR webcam for WWAN (1920 x 1080)^{1,2}

HDMI 2.0

Supports resolution up to 4k @ 60Hz

Displays support



Features

Support 4 independent displays when on HP UltraSlim Docking Station

- Max. resolution = 2K@60Hz (DP1) & 2K@60Hz (DP2) & 1920x1200@60Hz (VGA)
- Support 4 independent displays when on HP Elite USB-C Dock G4
 - Max. resolution = 2K@60Hz (DP1) & 2K@60Hz (DP2) & 1920x1200@60Hz (HDMI)
- ¹HD content required to view HD images.
- ² Sold separately or as an optional feature.
- ³ HP Sure View is optional and must be configured at purchase.

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.



Features

STORAGE AND DRIVES

Primary Storage

128GB M.2 2280 SATA-3 flash memory storage drive

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less.

MEMORY

Standard

DDR4 - 2400 (Transfer rates up to 2400 MT/s)
Two SODIMM slots supporting dual-channel memory

Supports the following configurations:

8192 MB Total System Memory (4096 MB x 2)

Maximum

8 GB

Dual-channel

Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)

HP lt4132 LTE/HSPA+ 4G Mobile Broadband²

LAN

Realtek PCIe GbE Family Controller 10/100/10004

Wireless LAN (WLAN)

Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™ 3

NFC

NXP NPC300 Near Field Communication Module

Miracast

Support for Miracast¹

³ Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.



¹ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming

² WWAN module is optional, must be configured at the factory and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

Features

⁴The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen

Integrated 3 multi-array microphone

2 integrated stereo speakers

Webcam^{1,2}

720p HD webcam HD IR webcam

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

HP Premium Keyboard

HP Premium Collaboration Keyboard with dual-point, minor spill-resistant with drain; Optional backlit with HP Dura Keys, privacy.

Pointing Devices

Clickpad with multi-touch gestures enabled

Taps enabled as default

Function Keys

- F1 Display Switching
- F2 Blank or Privacy
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Numlk
- F11 Wireless
- F12 Calendar
- Share/Present
- Call Answer
- Call End

Hidden Function Keys

- Fn+R Break
- Fn+S Sys Rq
- Fn+C Scroll Lock



¹ HD content required to view HD images.

² Sold separately or as an optional feature.

Features

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen4¹
Master Boot Record Security
Power On Authentication
Secure Erase²
Pre-boot Authentication

Software

Supported protocols: Microsoft RDP; VMware® Horizon RDP/PCoIP, Blast Extreme; Citrix® ICA/HDX*
HP Native Miracast Support³
HP Noise Cancellation Software
HP Velocity
HP Easy Shell

*Protocols are dependent on operating system installed

Manageability Features

HP Device Manager HP ThinUpdate HP BIOS Config Utility (BCU)

Client Security Software^{4,5}

HP Power On Authentication Microsoft Windows Defender HP Write Manager HP SureStart Gen4¹ Secure Erase² HP USB Port Manager

Security

Security lock slot
Integrated smart card reader⁵
HP Fingerprint Sensor⁵
IR camera for facial recognition⁵
Trusted Platform Module (TPM) 2.0
NFC Antenna⁵

Supported protocols: Microsoft RDP; VMware® Horizon RDP/PCoIP; Citrix® ICA/HDX*

³ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming



^{*}Protocols are dependent on operating system installed

¹ HP SureStart Gen4 and BIOSphere Gen4 features may vary depending on the PC platform and configurations and requires 8th Gen AMD processors.

² For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

Features

- ⁴ Sold separately or as an optional feature.
- ⁵ Microsoft Defender Opt in and internet connection required for updates.



Features

POWER

Power Supply¹

65 W Smart AC adapter (external) 45 W Smart AC adapter (external) 45 W 2-prong AC adapter (external, Japan-only) 65W EM Smart AC adapter (external) 45 W USB Type-C™ adapter 65 W USB Type-C™ adapter

Primary Battery

HP 3-cell Long Life Li-Ion (50 WHr) (Supports HP Fast Charging)²

Battery Life

Up to 12 hours³

Power Cord¹

2-wire plug – 1.0m (Japan Only)
3-wire plug – 1.0m
3-wire plug – 1.8m
Duckhead power cord – 1.0m
Duckhead power cord – 1.8m

³Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight¹

Starting at 3.27 lb (non-touch); Starting at 3.56 lb (touch)

Starting at 1.48 kg (non-touch); Stating at 1.61 kg (touch)

Dimensions (w x d x h)

12.84 x 9.22 x 0.71 in 32.6 x 23.4 x 1.79 cm

¹ Weight varies by configuration and components.



¹ Availability may vary by country.

²Battery is internal and not replaceable by customer. Serviceable by warranty.

Features

PORTS/SLOTS

Ports

1 USB 3.1 GEN 1

1 USB Type-C™ (Alt Mode)

1 USB 3.1 GEN 1 (Charging)

1 HDMI 2.01

1 RJ-45 / Ethernet

1 docking connector

1 headphone/microphone Combo

1 AC power

¹HDMI cable sold separately.

Slots

Smart card reader (optional)

External Micro SIM Slot(3FF)

SERVICE AND SUPPORT

HP Services offers 3-year and 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc 1

¹ HP Care Services are optional. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit http://www.hp.com/go/cpc_HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power	Nominal Operating Voltage	19 V
Requirements (AC Power)	Average Operating Power	Windows 10
	Integrated graphics	15W
	Max Operating Power	UMA < 45W
Temperature	Operating	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	Non-operating	-4° to 140° F (-20° to 60° C)
Relative Humidity	Operating	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	Operating	Half sine wave shock: 40G, 2ms duration
	Non-operating	Half sine wave shock: 240G, 2ms duration
Random Vibration	Operating	Nominal 1.043 grms
	Non-operating	Nominal 3.5 grms
Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard	UL	Yes
Certifications	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Yes
	EPEAT®	Yes
	ICES	Yes
	Australia / NZ RCM Compliance	Yes
	ccc	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	CIT	Yes
	EAC	Yes
	Saudi Arabian Compliance (ICCP)	TRSE owned

^{**} EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.

UKRSERTCOMPUTER



DISPLAYS

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED $(W \times H)$ UWVA 45% cg 220nits eDP

slim NB

Outline Dimensions

316.112 x 197.98 max.

Active Area

309.312 x 173.988

Weight

< 280 g max

Diagonal Size

3.0mm max.

14"

Thickness Interface

eDP 1.2

Surface Treatment

IPS

Contrast Ratio

600:1 (typical)

Refresh Rate

60Hz

Brightness

Format

220 nits typical (Panel Only)

Pixel Resolution

1920 x 1080 (FHD)

Backlight

LED

RGB

Color Gamut Coverage

0.45 6 bits + Hi FRC

Color Depth

Viewing Angle UWVA 85/85/85/85

NOTE: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 72% cg 700nits eDP 1.3+PSR ultraslim **Privacy**

Outline Dimensions

315.41 x 196.14 max.

 $(W \times H)$

Active Area

309.312 x 173.988

Weight

< 225 g max

Diagonal Size

14"

Thickness

3.0mm max.

Interface

eDP 1.4

Surface Treatment

IPS

Contrast Ratio

Sharing mode, 600:1 (typical)

Privacy mode, 150:1 (typical)

Refresh Rate

120Hz

Brightness

Sharing mode, 700 nits (typical) Privacy mode, 350 nits (typical)

Pixel Resolution

1920 x 1080 (FHD)

Format

RGB

Backlight

LED

Color Gamut Coverage

Sharing mode, 72%

Privacy mode, 60%

Technical Specifications

Color Depth 8 bits

Viewing Angle Sharing mode, CR>10, L/R/U/D, 85/85/85 (typical)

Privacy mode, CR>2, L/R/U/D, 50/50/85/85 (typical)

NOTE: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

NETWORKING

HP lt4132 LTE/HSPA + 4G Mobile Broadband*

Technology/Operating bands FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

850 (Band 5), 2600 (Band 7), 900 (Band 8), 800 (Band 20), 700 (Band 28) MHz

HSPA+: 2100 (Band 1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) MHz

Wireless protocol standards 3GPP Release 10 LTE Specification CAT.4, 20MHz BW

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4

and MSC1 - MSC9

GPS Standalone, A-GPS (MS-A, MS-B and LTO)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz

Maximum data rates LTE: 150 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps (Download), 85.6 kbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

E-GPRS 1900/1800: 26 dBm E-GPRS 900/850: 27 dBm GPRS 1900/1800: 29.5 dBm GPRS 900/850: 32.5 dBm

Maximum power consumption LTE: 1,200 mA (peak); 900 mA (average)

HSPA+: 1,100 mA (peak); 800 mA (average) E-GPRS: 2,600 mA (peak); 500 mA (average)

M.2, 3042-S3 Key B

Connection speeds will vary due to location, environment, network conditions, and other factors.

Weight 6 g

Dimensions 42 x 30 x 2.3 mm

(Length x Width x Thickness)

Form Factor

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability.

4G LTE not available on all products or in all countries.



Technical Specifications

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2 Compliant

Frequency Band 2402 to 2480 MHz

Legacy: 0~79 (1 MHz/CH)

Number of Available Channels

BLE: 0~39 (2 MHz/CH)

Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Data Rates and Throughput Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or

864 kbps symmetric (3-EV5)

Transmit Power

The Bluetooth component shall operate as a Class II Bluetooth device with a maximum

transmit power of + 4 dBm for BR and EDR.

Peak (Tx) 330 mW

Power Consumption Peak (Rx) 230 mW

Selective Suspend 17 mW

Range Legacy Up to 33 ft (10 m)

BLE Up to 99 ft (30 m)

Electrical Interface USB 2.0 compliant

Bluetooth Software Supported Microsoft Windows Bluetooth Software

Power Management

Certifications

Microsoft Windows ACPI, and USB Bus Support

Security Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826

Low Voltage Directive IEC950

UL, CSA, and CE Mark

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

Bluetooth Profiles Supported LE Secure Connection- Basic/Full

LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)



Technical Specifications

STORAGE AND DRIVES

128 GB M.2 2280 SATA-3 Flash Memory Drive

 Drive Weight
 0.02 lb (10 g)

 Capacity
 128 GB

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

PerformanceMaximum Sequential ReadPerformanceUp To 520 MB/sUp To 450 MB/s

Up To 520 MB/s **Logical Blocks** 250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

POWER

74x74x28.5mm

USB tvpe C™ Weight

Input

unit: 245q +/- 10q

Input Efficiency

81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

Input frequency range

47 to 63 Hz

Input AC current

1.7 A at 90 VAC and maximum load

Output **Output power**

> DC output 5V/9V/10V/12V/15V/20V Hold-up time 5 ms at 115 Vac input

65W

Output current limit <8.0A

Connector

Duck head / duck head power cord, without Smart ID DC connector

Environmental Design

Operating

32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 5% to 95% **Storage Humidity** 5% to 95%

EMI and Safety Certifications

*CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV: Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC

Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 45 Watt nPFC Dimensions (H x W x D)

USB type C™

62.0x62.0x28.5mm

Weight

unit: 220g +/- 10g

Input

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

> load condition with 115Vac/230Vac Spec:5V: 81.5%9V:86.7%10V:87.5%12V:87.8%15V:

87.8%20V:87.8%

Input frequency range

47 to 63 Hz

Input AC current

Output power

Max. 1.4 A at 90 Vac

Output

5V/15W

9V/27W 10V/37.5W 12V/45W

15V/45W 20V/45W

DC output

5V / 9V / 10V /12V / 15V / 20V

Hold-up time 5 ms at 115Vac input

Output current limit <5.0A

Connector USB Type-C™

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage)

temperature

-4° to 185° F (-20° to 85° C)

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1,

SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC

Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 45W Smart AC Adapter **Dimensions** (H x W x D) 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

Weight 0.386 lb (175g) max

Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 to 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5 ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage)

temperature

-4° to 185° F (-20° to 85° C)

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety Certifications

*CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC

Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 45W Smart AC Adapter (2 Prong) **Dimensions** (H x W x D)

Weight

Input

95.0x40.0x26.5mm unit: 200g +/- 10g 90 to 265 VAC

Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 to 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5 ms at 115Vac input

Output current limit <8.0A

AC Connector (Ac Inlet) C8 (2 pin/non-grounded, with Smart ID DC connector)

Environmental DesignOperating temperature
32° to 95° F (0° to 35° C)

Non-operating (storage)

temperature

-4° to 185° F (-20° to 85° C)

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1,

SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W Smart AC Adapter **Dimensions** 107.0x47.0x30.0mm

Weight unit: 250g +/- 10g

Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230 Vac

Input Input frequency range 47 to 63 Hz

Input AC current Max 1.7 A at 90 Vac

Output Output power 65W

DC output 19.5V

Hold-up time 5 ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

Environmental DesignOperating temperature
32° to 95° F (0° to 35° C)

Non-operating (storage)

temperature

-4° to 185° F (-20° to 85° C)

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% Storage Humidity 10% to 95%

EMI and Safety Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC

Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W EM Smart AC Adapter
 Dimensions
 102x55x30mm

 Weight
 270g +/- 10g

Input Efficiency 87% min at 115V/230V

Input Input frequency range 47 to 63 Hz

Input AC current Max 1.7 A at 90 VAC

Output Output power 65W

DC output 19.5V/3.33A

Hold-up time 5 msec at 115 VAC input

Output current limit <11.0A, Over voltage protection- 29V max

automatic shutdown

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental DesignOperating temperature
32° to 95° F (0° to 35° C)

Non-operating (storage)

temperature

-4° to 185° F (-20° to 85° C)

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 0% to 95% **Storage Humidity** 0% to 95%

EMI and Safety Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC

Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

Technical Specifications

Battery TT 3 Cell WHr 56

Long Life - PL

Dimensions (L x W x H) L281.7mm x W 79.65mm x H 7.15mm

Weight 193 +/- 10g

Cells/Type 3cell Lithium-Ion Polymer cell / P604883A1

Energy Voltage 11.55V

Amp-hour capacity 4.113Ah/ 4.330Ah

Watt-hour capacity 50wh

Temperature Operating (Charging) 0° to 50° C

Operating (Discharging) -10° to 60° C

Fuel Gauge LEDNAWarranty3 yearsOptional Travel BatteryNo

Available

Technical Specifications

ENVIRONMENTAL DATA

	IALDAIA			
Environmental Data	Eco-Label Certifications & declarations System Configuration	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 marks: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword <i>generator</i> on HP's 3rd party option store for solar energy accessory at http://www.hp.com/go/options. • TCO The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".		
	Energy Consumption (in accordance with US ENERGY STAR® test method) Normal Operation (Sort idle)	115VAC, 60Hz 7.98 W	230VAC, 50Hz 7.70 W	100VAC, 50Hz 7.04 W
	Normal Operation (Long idle)	5.24 W	5.10 W	5.16 W
	Sleep	0.82 W	0.84 W	0.82 W
	Off	0.43 W	0.44 W	0.42 W
Note: Energy efficiency data listed is for an ENERGY STAR® compliant within the model family. HP computers marked with the ENERGY STAR® compliant with the applicable U.S. Environmental Protection A STAR® specifications for computers. If a model family does STAR® compliant configurations, then energy efficiency data liconfigured PC featuring a hard disk drive, a high efficiency process of the model family does are supplied to the model family does started the model family does star		he ENERGY STAR® Logo are ection Agency (EPA) ENERGY ily does not offer ENERGY data listed is for a typically		
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation (Short idle)	27 BTU/hr	26 BTU/hr	24 BTU/hr



Technical Specifications

	Normal Operation (Long idle)	18 BTU/hr	17 BTU/hr	18 BTU/hr
	Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
	Off	1 BTU/hr	2 BTU/hr	1 BTU/hr
		*NOTE: Heat dissipation is service level is attained fo		neasured watts, assuming the
	Declared Noise	Sound Power		Sound Pressure
	Emissions	(L _{WAd} , bels)		(L _{pAm} , decibels)
Ī	(in accordance with ISO 7779 and ISO 9296)	(Elina) Sets)		(Eprill) decide(3)
	Typically Configured – Idle	2.5		15
	Fixed Disk – Random writes	3.1		25
	Optical Drive – Sequential reads			
	Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several ye Upgradeable features and/or components contained in the product may incl 3 USB ports 1 PC card slot (type I/II) 1 ExpressCard/54 slot 1 IEEE 1394 Port 2 SODIMM memory slots Optional expansion base docking station 1 multi-bay II storage port Interchangeable HDD?? Spare parts are available throughout the warranty period and or for up to "5 years after the end of production.		in the product may include: eriod and or for up to "5"
	Batteries	This battery(s) in this prod Batteries used in the prod Mercury greater the1p Cadmium greater than Battery description: CR203 Battery type: Lithium Battery description: 6-cell available) Battery type:	uct do not contain: opm by weight o 20ppm by weight 32 (coin cell)	



Technical Specifications

Additional Information	Sub This Elec This Cali This <go per="" plas="" th="" this<=""><th>s product is in compliance with the Restrictions of Hostances (RoHS) directive - 2011/65/EC. S HP product is designed to comply with the Waste Estronic Equipment (WEEE) Directive - 2002/96/EC. S product is in compliance with California Propositio fornia; Safe Drinking Water and Toxic Enforcement product is in compliance with the IEEE 1680 (EPEA old> level, see www.epeat.net stics parts weighing over 25 grams used in the product is product contains 5.2% post-consumer recycled place product is 96.2% recycle-able when properly disposed.</th><th>Electrical and n 65 (State of Act of 1986). I) standard at tl uct are marked</th></go>	s product is in compliance with the Restrictions of Hostances (RoHS) directive - 2011/65/EC. S HP product is designed to comply with the Waste Estronic Equipment (WEEE) Directive - 2002/96/EC. S product is in compliance with California Propositio fornia; Safe Drinking Water and Toxic Enforcement product is in compliance with the IEEE 1680 (EPEA old> level, see www.epeat.net stics parts weighing over 25 grams used in the product is product contains 5.2% post-consumer recycled place product is 96.2% recycle-able when properly disposed.	Electrical and n 65 (State of Act of 1986). I) standard at tl uct are marked
Packaging Materials	External:	PAPER/Corrugated	357 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	66 g
		PLASTIC/Polyethylene low density - LDPE	15 g
		PLASTIC/Polypropylene - PP	4 g
	The plastic packaging material contains at least 50 % recycled content. The corrugated paper packaging materials contains at least 70 % recycled content.		
	 Cert Cert reta Cad Chlo Chlo For Halo 	estos tain Azo Colorants tain Brominated Flame Retardants – may not be use ardants in plastics Imium orinated Hydrocarbons orinated Paraffins maldehyde ogenated Diphenyl Methanes d carbonates and sulfates	ed as flame
	 Mer Nick be f Ozo Poly Poly Poly 	d and Lead compounds reuric Oxide Batteries kel – finishes must not be used on the external surfa frequently handled or carried by the user. In Depleting Substances Sybrominated Biphenyls (PBBs) Sybrominated Biphenyl Ethers (PBBEs) Sybrominated Biphenyl Oxides (PBBOs) Sychlorinated Biphenyl (PCB)	ace designed to
		ychlorinated Terphenyls (PCT) yvinyl Chloride (PVC) – except for wires and cables, I	aac boon



Technical Specifications

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 a 	
	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 corrug materials. 	
	Reduce size and weight of packages to improve transportation fuel efficiency.	
	 Plastic packaging materials are marked according to ISO 11469 and 	
	6120 standards.	
End-of-life Management	Hewlett-Packard offers end-of-life HP product return and recycling prograr	
and Recycling	many geographic areas. To recycle your product, please go	
	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.	
	information (product disassembly instructions) is posted on the Hewlett Pack	
	web site at: http://www.hp.com/go/recyclers. These instructions may be use by recyclers and other WEEE treatment facilities as well as HP OEM customers	
	who integrate and re-sell HP equipment.	
HP, Inc. Corporate	For more information about HP's commitment to the environment:	
, p		
Environmental	Clohal Citizanship Depart	
Environmental	Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html	
Environmental	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications	
Environmental	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-	
Environmental	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications	
Environmental Information	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp- information/environment/ecolabels.html ISO 14001 certificates:	
Environmental	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp- information/environment/ecolabels.html ISO 14001 certificates:	
Environmental	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp- information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04	



COUNTRY OF ORIGIN

China



Options and Accessories (Sold separately and availability may vary by country.)

Туре	Description	Part Number
Cases	HP Slim Tip Load	F3W16AA
	HP Slim Backpack	F3W15AA
	HP 15.6 Business Top Load	2SC66AA
Docking	HP UltraSlim Docking Station	D9Y32AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Universal Dock with 4.5mm adapter	2UF95AA
	HP USB-C Universal Dock (non-flash, 4.5mm adapter)	3DV65AA
	HP USB-C Dock G4	3FF69AA
	HP USB-C Mini Dock	1PM64AA
	HP USB-C Travel Dock	T0K29AA
	HP Adjustable Dual Display Stand	AW664AA
	HP Display and Notebook Stand II	E8G00AA
	HP Hot Desk Stand (up to 32" monitor)	W3Z73AA
	Monitor Arm (for use with W3Z73AA; supports two 24" monitors)	W3Z74AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Wireless (Link-5) Keyboard	T6U20AA
	HP USB Essential Keyboard and Mouse	H6L29AA
	HP Conferencing Keyboard	K8P74AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Wireless Premium Mouse	1JR31AA
	HP USB Premium Mouse	1JR32AA
	HP USB Travel Mouse	G1K28AA
	HP Touch to Pair Mouse	H6E52AA
	HP X4000b Bluetooth Mouse	H3T50AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP Wireless Optical Mouse LTNA	K7S53AA#ABM
	HP 3-button USB Laser Mouse	H4B81AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP USB Speaker Phone	X7N17AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to DP	N9K78AA
	HP USB-C to VGA	N9K76AA



Options and Accessories (Sold separately and availability may vary by country.)

	HP HDMI to DVI	F5A28AA
	HP HDMI to VGA	H4F02AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	·	
Memory	HP 4GB 2400MHz DDR4 Memory	Z4Y84AA
	HP 8GB 2400MHz DDR4 Memory	Z4Y85AA
	HP 16GB 2400MHz DDR4 Memory	Z4Y86AA
Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 90W Slim AC Adapter	H6Y83AA
	HP 90W Slim Combo AC Adapter w/USB	H6Y84AA
	HP 45W Smart AC Adapter	H6Y88AA
	HP 65W Smart AC Adapter	H6Y89AA
	HP 90W Smart AC Adapter	H6Y90AA
	HP 45W 2-prong 4.5mm DC jack AC adapter	L6F60AA#ABJ
	HP 45W USB-C Power Adapter	1HE07AA
	HP 65W USB-C Power Adapter	1HE08AA
	HP Notebook Power Bank	N9F71AA
	HP USB-C Notebook Power Bank	1TZ86AA
Storage	HP USB External DVDRW Drive	F2B56AA
Security	HP Docking Station Cable Lock	AU656AA
Security	HP Keyed Cable Lock	AU656AA TOY14AA
Security	_	
Security	HP Keyed Cable Lock	TOY14AA
Security	HP Keyed Cable Lock HP Combination Lock	T0Y14AA T0Y15AA
Security	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA
Security	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA
Security	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E
Security	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E
Security	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E
	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E
	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP USB Collaboration Keyboard	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E UC279E
	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP USB Collaboration Keyboard HP Wireless Collaboration Keyboard	T0Y14AA T0Y15AA T0Y16AA T1A62AA T1A64AA UK726E UC279E Z9N38AA Z9N39AA
	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP USB Collaboration Keyboard HP Wireless Collaboration Keyboard HP UC Speaker Phone	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E UC279E Z9N38AA Z9N39AA K7V16AA
	HP Keyed Cable Lock HP Combination Lock HP Essential Combination Lock HP Keyed Cable Lock 10mm HP Dual Head Keyed Cable Lock HP 1 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 HP USB Collaboration Keyboard HP Wireless Collaboration Keyboard HP UC Speaker Phone HP UC Wired Headset	TOY14AA TOY15AA TOY16AA T1A62AA T1A64AA UK726E UC279E Z9N38AA Z9N39AA K7V16AA K7V17AA



J6E65AA

QuickSpecs

Misc

Options and Accessories (Sold separately and availability may vary by country.)

Displays HP EliteDisplay E243 23.8-inch Monitor 1FH47AA
HP EliteDisplay E243i 23.8-inch Monitor 1FH49AA
HP EliteDisplay E273 27-inch Monitor 1FH50AA
HP EliteDisplay E273m 27-inch Monitor 1FH51AA

HP 14" Notebook PC Privacy Filter

USB-C™ to USB 3.0 dongle N2Z63AA

Docking Station	Total number of supported displays (incl. the thin client display)	Max. resolutions supported	Dock Connectors	Technical limitations
HP UltraSlim	4	Dual 2K @ 60Hz	2xDP, 1xVGA	Supports only one 4K
Docking Station		Single 4K @ 60Hz		monitor at a time
		(3840 x 2160)		
HP Elite USB-C	4	Dual 2K @ 60Hz	1xHDMI, 2xDP	Both Display Ports on
Dock G4		Single 4K @ 60Hz		dock cannot be used if
		(3840 x 2160)		two HDMIs are
				connected
HP USB-C	4	Dual 4K @ 60Hz	2xDP	Both dock ports can be
Universal Dock				used at the same time
HP USB-C Travel	3	Single 2K @ 50Hz	1xHDMI, 1xVGA	Single external display
Dock		(2560 x 1440)		Only HDMI or VGA at a
		VGA 1920x1200		time
		@ 60Hz		
HP USB-C Mini	3	Single 4K @ 30Hz	1xHDMI, 1xVGA	Single external display
Dock				Only HDMI or VGA at a
				time

Summary of Changes

Date of change:	Version History:	Type of change	Description of change:
May 8, 2018	From v1 to v2	Added	Environmental tab
May 24, 2018	From v2 to v3	Changed	Environmental tab
June 18, 2018	From v3 to v4	Changed	Docking Station
August 6, 2018	From v4 to v5	Changed	MIL-STD from "Pending" to "Passed", Weight Changed it from "3.37 lb (1.53 kg)" to "3.27 lb (1.48 kg)" at non-touch
August 20; 2018	From v5 to v6	Changed	Software support for VMware Horizon



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