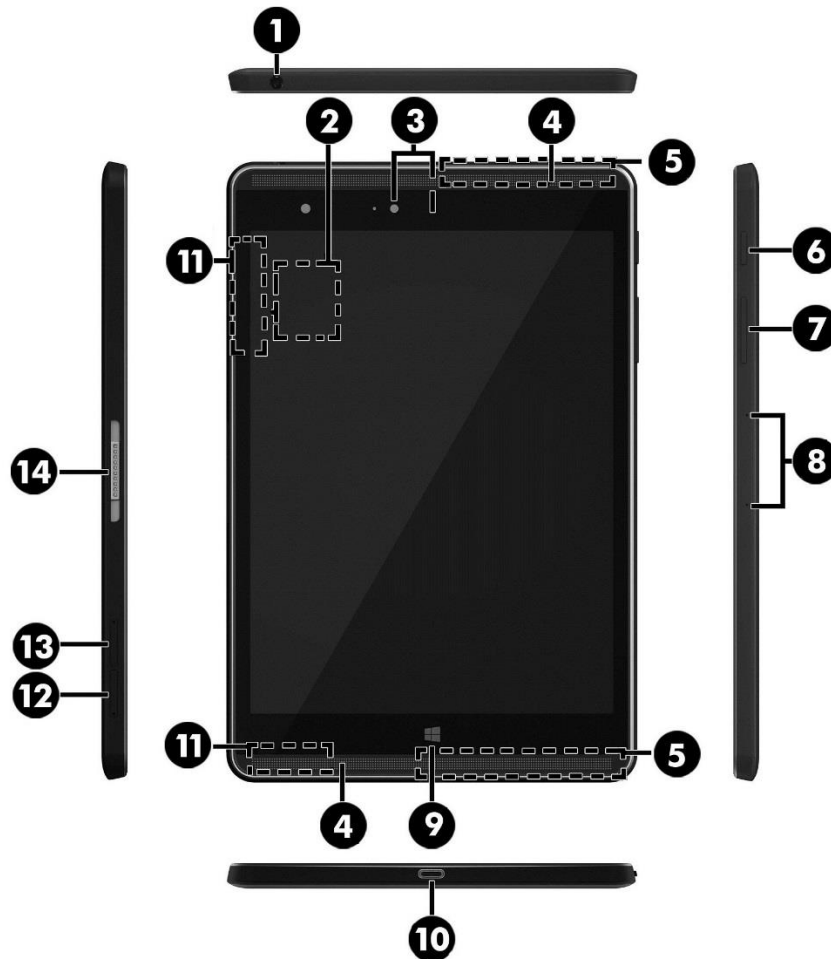


Overview

HP Pro Tablet 608 G1



- | | |
|--|---|
| 1. Audio-out (headphone)/Audio-in (microphone) combo jack | 8. Microphone(s) |
| 2. NFC (Near Field Communications) area (select models only) | 9. Windows button |
| 3. Webcams | 10. USB Type-C™ Port |
| 4. Speakers | 11. WLAN antennas* |
| 5. WWAN antennas (select models only)* | 12. MicroSD card reader |
| 6. Power Button | 13. Nano SIM card slot (select models only) |
| 7. Volume button | 14. ZIF (Zero Insertion Force) expansion slot |

*The antennas are not visible from the outside of the tablet. For optimal transmission, keep the areas immediately around the antennas free from obstructions. For wireless regulatory notices, see the section of the Regulatory, Safety, and Environmental Notices that applies to your country or region. To access this guide, from the Start screen, tap the HP Support Assistant app.

Overview

Overview

AT A GLANCE

- Windows 8.1 Pro 64, Windows 8.1 64, Windows 8.1 Pro 64 Retail Solutions, Windows Embedded Industry 8.1 64 and Windows 10
- Intel® Atom™ x5-Z8500 with Intel HD Graphics (1.44 GHz, up to 2.24 GHz using Intel Burst Technology, 2 MB cache, 4 cores)*
- 7.86-inch diagonal capacitive multi-touch, FHD QXGA BrightView WLED UWVA (2048 x 1536), featuring Corning® Gorilla® Glass 4, 4:3 Wide Aspect Ratio
- Up to 8 hours video MM2012**
- 2 GB LPDDR3-1600 SDRAM or 4 GB LPDDR3-1600 SDRAM
- 32GB, 64GB or 128GB embedded Multi Media Card (eMMC)
- Micro SD Card Slot supported, expandable up to 2TB
- 802.11ac WiDi (2x2) Wi-Fi
- Bluetooth® 4.0 + LE connectivity
- LTE optional

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

*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. Intel's numbering is not a measurement of higher performance.

**Windows 8/MM12 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.

Technical Specifications

PRODUCT NAME

HP Pro Tablet 608 G1

OPERATING SYSTEM

Preinstalled (Windows)

- Windows 8.1*
- Windows 8.1 Pro 64*
- Windows 8.1 Pro 64 (National Academic only)*
- Windows Embedded 8.1 Industry 64*
- Windows 10 Home 64*
- Windows 10 Home 64 (National Academic only)*
- Windows 10 Pro 64*
- Windows 10 Pro 64 (National Academic only)*
- Windows 10 IoT Enterprise *

Web-only support

- Windows 8.1
- Windows 8.1 Pro 64
- Windows 8.1 Pro 64 (National Academic only)
- Windows 8.1 Enterprise 64
- Windows Embedded 8.1 Industry 64
- Windows 10 Home 64
- Windows 10 Home 64 (National Academic only)
- Windows 10 Pro 64
- Windows 10 Pro 64 (National Academic only)
- Windows 10 Enterprise 64
- Windows 10 IoT Enterprise

*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. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.

PROCESSOR

Intel® Atom™ x5-Z8500 with Intel HD Graphics (1.44 GHz, up to 2.24 GHz using Intel Burst Technology, 2 MB cache, 4 cores)*

*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. Intel's numbering is not a measurement of higher performance.

DISPLAY

Internal

7.86-inch diagonal capacitive multi-touch, FHD QXGA BrightView WLED UWVA (2048 x 1536)

Technical Specifications

Features:

- 2048 x1536 High Definition (FHD)* resolution**
- Brightness (typical) - 450 nits (cd/m²)
- 326 PPI (Pixel Per Inch)
- 4:3 Wide Aspect Ratio (orientation agnostic)
- 10 point capacitive touch solution, Direct bonding
- Anti-Smudge with Corning® Gorilla® Glass 4

External

24-bit per pixel color depth

Various options supported via USB Type-C standard dongles. Check accessories section.

* High definition (HD) content is required to view high-definition images.

* Wireless access point and Internet service required and not included. Availability of public wireless access points limited.

**WWAN is an optional feature, requires factory configuration, and use requires separately purchased service contract.

Check with service provider for coverage and availability in your area. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

INTERNAL STORAGE

Internal Storage Device

32 GB embedded Multi Media Card (eMMC)* (Base SKU)

64 GB embedded Multi Media Card (eMMC)*

128 GB embedded Multi Media Card (eMMC)*

Micro SD Card Slot supported

Supports SDXC microSD cards up to 2 TB **

* GB = 1 billion bytes. Actual formatted capacity is less.

** microSD Card Sold separately

STORAGE AND DRIVES

32 GB embedded Multi Media Card (eMMC)	Drive Weight	n/a
	Capacity	32 GB
	Height	1.4 mm
	Width	12 x 16 mm

Technical Specifications

64 GB embedded Multi Media Card (eMMC)	Interface	MMC protocol
	Performance	HS400 for eMMC 5.x
	Features	5.0 HS400 and FFU (field firmware update)
	Drive Weight	n/a
	Capacity	64 GB
	Height	1.4 mm
	Width	12 x 16 mm
128 GB embedded Multi Media Card (eMMC)	Interface	MMC protocol
	Performance	HS400 for eMMC 5.x
	Features	5.0 HS400 and FFU (field firmware update)
	Drive Weight	n/a
	Capacity	128 GB
	Height	1.4 mm
	Width	12 x 16 mm
	Interface	MMC protocol
	Performance	HS200 for eMMC 5.x
	Features	5.0 HS200 and FFU (field firmware update)

MEMORY*

Standard

2 GB LPDDR3-1600 SDRAM (Transfer rates up to 1600 MT/s)

4 GB LPDDR3-1600 SDRAM (Transfer rates up to 1600 MT/s)

* Transfer rates up to 1600 MT/s. Onboard memory not customer accessible/upgradeable

NETWORKING/COMMUNICATIONS

Integrated Wi-Fi*

Intel Dual Band Wireless-AC 7265 802.11ac WiDi (2x2) Wi-Fi and Bluetooth® 4.0 Combo

WWAN**

WWAN Foxconn NA-1-S3 LTE/EVDO/HSPA+ w/GPS M.2 (746479-002)

WWAN Huawei ME906E LTE/HSPA+ w/GPS M.2 (739797-002)

WWAN Huawei MU736 HSPA+ w/GPS M.2 (746700-002)

NFC

Near Field Communication (NFC)

Technical Specifications

HP WWAN lt4112 LTE HSPA+ 4G WWAN with GPS support*

Technology/Operating Bands	LTE FDD all bands with diversity: 2100MHz (Band I), 1900 MHz (Band II) , 1800 MHz (Band III), 850 MHz (Band V), 2600 MHz (Band VII) 00 MHz (Band VIII), 800 MHz (Band XX, DD800) WCDMA/HSDPA/HSUPA/HSPA+ all bands with diversity: 2100 MHz (Band I), 1900 MHz (Band II), 850 MHz (Band V), 900 MHz (Band VIII) GSM/GPRS/EDGE: 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V), 900 MHz (Band VIII)
Wireless Protocol Standards	3GPP Release 8 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification
GPS	Standalone GPS, A-GPS
GPS Bands	GPS 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz
Maximum data rates	LTE: UL 50 Mbps / DL 100 Mbps DC-HSPA+: UL 5.76 Mbps / DL 42 Mbps HSPA+: UL 5.76 Mbps / DL 21.6 Mbps EDGE: UL 236.8 kbps / DL 236.8 kbps GPRS: UL 85.6 kbps / DL 85.6 kbps
Maximum Output Power	LTE: 23 dBm WCDMA/HSPA/HSPA+: 23.5 dBm EDGE 900/850 MHz: 27.5 dBm EDGE 1900/1800 MHz: 26.5 dBm GPRS 900/850 MHz: 32.5 dBm GPRS 1900/1800 MHz: 29.5 dBm
Maximum Power Consumption	LTE: 1,200 mA (peak); 900 mA (average) WCDMA: 1,100 mA (peak); 800 mA (average) EDGE: 2,800 mA (peak); 700 mA (average)
Power Consumption, Sleep Mode	3 mA
Power Management	USB selective suspend
Antenna Type	Dual high efficiency multi-band antennae with spatial diversity
Form Factor	M.2, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)
Voltage, Operating	3.3 V +1.1/-0.17 V
Temperature, operating	-10°C to 60°C
Temperature, Non-operating	-40°C to 85°C

Technical Specifications

Humidity, Non-operating	10-90% operating 5-95% non-operating
* 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. Connection speeds will vary due to location, environment, network conditions, and other factors.	
HP WWAN hs 3110 HSPA with GPS support*	
Technology/Operating Bands	WCDMA/HSDPA/HSUPA/HSPA+: 2100(Band I), 1900 (Band II), AWS(Band IV), 850 (Band V), 900 (Band VIII) MHz GSM/GPRS/EDGE: 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V), 900 MHz (Band VIII) MHz
Wireless Protocol Standards	GSM/GPRS/EDGE: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9 UMTS/WCDMA: Release 99 and Release 7 Advanced Receiver Type 3i
GPS	Standalone GPS, A-GPS
GPS Bands	GPS 1575.42 MHz (± 1.023 MHz)
Maximum data rates	HSPA+: UL 5.76 Mbps / DL 21.6 Mbps HSPA: UL 5.76 Mbps / DL 7.2 Mbps WCDMA PS: UL 384 kbps / DL 384 kbps WCDMA CS: UL 64 kbps / DL 64 kbps GPRS: UL 85.6 kbps / DL 107 kbps EDGE: UL 236.8 kbps/DL 296 kbps
Maximum Output Power	WCDMA/HSPA/HSPA+ MHz: 24 dBm EDGE 900/850 MHz: 27 dBm EDGE 1900/1800 MHz: 26 dBm GPRS 900/850 MHz: 33 dBm GPRS 1900/1800 MHz: 30 dBm
Maximum Power Consumption	2500 mA (peak); 600 mA (average)
Power Consumption, Sleep Mode	3.6 mA
Power Management	USB selective suspend
Antenna Type	Dual high efficiency multi-band antennae with spatial diversity
Form Factor	M.2, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)
Voltage, Operating	3.3 V +1.1/-0.17 V
Temperature, operating	-10°C to 55°C
Temperature, Non-operating	-40°C to 85°C
Humidity, Non-operating	RH5% to RH95%

Technical Specifications

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

Technical Specifications

HP WWAN lt4211 LTE HSPA + EVDO with GPS support* Technology/Operating Bands

LTE FDD all bands with diversity: 1700/2100MHz (Band IV (AWS), 700MHz (Band XIII), 700MHz (Band XVII), 1900MHz G Block (Band XXV) WCDMA/HSDPA/HSUPA/HSPA+: all bands with diversity: 2100 MHz (Band I), 1900 MHz (Band II) , AWS 1700/2100MHz (Band IV), 850 MHz (Band V), 800 MHz (Band VIII) GSM/GPRS/EDGE: 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V), 900 MHz (Band VIII) CDMA: Cellular 800MHz (BC0), PCS 1900MHz (BC1)
WCDMA/HSDPA/HSUPA/HSPA+: 850 MHz/900 MHz/1700 MHz (AWS)/1900 MHz/2100 MHz
GPRS/EDGE: 850 MHz/900 MHz/1800 MHz/1900 MHz
CDMA BC0/BC1

Wireless Protocol Standards

3GPP Release 8 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification
EVDO Release 0 and Release A
Standalone GPS, A-GPS
GPS 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz

GPS GPS Bands

Maximum data rates

LTE: UL 50 Mbs / DL 100 Mbs
DC-HSPA+: UL 5.76 Mbs / DL 42 Mbps
HSPA+: UL 5.76 Mbs / DL 21.6 Mbps
EDGE: UL 236.8 kbps / DL 236.8 kbps
GPRS: UL 85.6 kbps / DL 85.6 kbps

Maximum Output Power

TE: 23 dBm
WCDMA/HSPA/HSPA+: 23 dBm
EDGE850/900: 27 dBm
EDGE1800/1900: 26 dBm
GPRS850/900: 32 dBm
GPRS1800/1900: 29 dBm
CDMA: 24 dBm

Maximum Power Consumption

LTE: 1,200 mA (peak); 900 mA (average)
WCDMA: 1,100 mA (peak); 800 mA (average)
EDGE: 2,500 mA (peak); 700 mA (average)

Power Consumption, Sleep Mode Power Management

3. mA
USB selective suspend

Antenna Type

Dual high efficiency multi-band antennae with spatial diversity

Form Factor

M.2, 3042-53 Key B

Weight

6 g

Dimensions

1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

(Length x Width x Thickness)

Technical Specifications

Voltage, Operating	3.3 V +1.1/-0.17 V
Temperature, operating	-10°C to 60°C
Temperature, Non-operating	-30°C to 85°C
Humidity, Non-operating	10-90% operating 5-95% non-operating

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

Intel Dual Band Wireless-AC 7265 802.11ac WiDi (2x2) Wi-Fi and Bluetooth® 4.0 Combo

WIRELESS LAN STANDARDS

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac

Interoperability

Wi-Fi certified

Frequency Band

802.11b/g/n
2.402 – 2.482 GHz

Note:

The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

802.11a/n
4.9 – 4.95 GHz (Japan)
5.15 – 5.25 GHz
5.25 – 5.35 GHz
5.47 – 5.725 GHz
5.825 – 5.850 GHz

Note: Indonesia no support this band

2 transmit; 2 receive (2x2)

Antenna Structure

Data Rates

802.11b: 1, 2, 5.5, 11 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
802.11ac: MCS0~MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Modulation

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security1

- IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
- AES-CCMP: 128 bit in hardware
- 802.1x authentication
- WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
- WPA2 certification
- IEEE 802.11i
- Cisco Certified Extensions, all versions through CCX4 and CCX Lite

Technical Specifications

		WAPI
Sub-channels		Multinational support with frequency bands and channels compliant to local regulations
Network Architecture Models		Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming		Roaming Output Power • 802.11b : +16dBm minimum • 802.11g : +14dBm minimum • 802.11a : +14dBm minimum • 802.11n HT20(2.4GHz) : • +13dBm minimum • 802.11n HT40(2.4GHz) : • +13dBm minimum • 802.11n HT20(5GHz) : +12dBm minimum • 802.11n HT40(5GHz) : +12dBm minimum • 802.11ac80MHz(5GHz):+11dBm minimum
Power consumption		Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 60 mW (WLAN unassociated)
Power Management Sensitivity	Receiver	ACPI and PCI Express compliant power management 802.11 compliant power saving mode / 802.11b, 1Mbps : -94dBm maximum 802.11b, 11Mbps : -86dBm maximum 802.11g, 6Mbps : -88dBm maximum 802.11g, 54Mbps : -74dBm maximum 802.11a, 6Mbps : -86dBm maximum 802.11a, 54Mbps : -72dBm maximum 802.11n, MCS07 : -69dBm maximum 802.11n, MCS15 : -66dBm maximum 802.11ac, 1SS, MCS-0 : -86dBm maximum 802.11ac, 1SS, MCS-9 : -61dBm maximum 802.11ac, 2SS, MCS-0 : -83dBm maximum 802.11ac, 2SS, MCS-9 : -58dBm maximum
Antenna Connections		2 U.FL type connectors (output impedance of 50 ± 2 ohms)
Form Factor		M.2 1216
Dimensions		12mm X 16mm X 1.7mm
Operating Voltage		3.3V +/-0.165 V
Temperature		Operating -10° to 70° C Non-operating -40° to 80° C



Technical Specifications

Humidity	Operating	10% to 90% (non-condensing)	5% to 95% (non-condensing)
	Non-operating		
Altitude	Operating	0 to 10,000 ft (3,048 m)	0 to 50,000 ft (15,240 m)
Bluetooth Specification*	Non-operating		
	BT 4.0		
Dimensions	12mm X 16mm X 1.7mm		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	79 (1 MHz) available channels		
Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps		
	Synchronous Connection Oriented links up to 3, 64 kbps, voice channels		
	Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric		
Transmit Power	5dBm@ BT2.0 3dBm@ BT4.0		
Receiver Sensitivity	GFSK: -80 dBm(0.01% BER)		
	$\pi/4$ -DQPSK: -80 dBm(0.01% BER)		
	8DPSK: -80 dBm(0.01% BER)		
Power Consumption	Peak (Tx) 330 mW		
	Peak (Rx) 230 mW		
	Selective Suspend 17 mW		
Antenna	PIFA		
Range	Up to 33 ft (10 m)		
Electrical Interface	USB		
Bluetooth Software Supported	Microsoft Windows Bluetooth Software		
Link Topology	GFSK		
Power Management	Microsoft Windows ACPI, and USB Bus Support Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff		
Certifications	All necessary regulatory approvals for supported countries, including:		
	FCC (47 CFR) Part 15C, Section 15.247 & 15.249		
	ETS 300 328, ETS 300 826		
	Low Voltage Directive IEC950		
	UL, CSA, and CE Mark		
Bluetooth Profiles Supported	Serial Port Profile (SPP)		
	Service Discovery Application Profile (SDAP)		
	Dial-Up Networking (DUN)		
	Generic Object Exchange Profile (GOEP)		
	Object Push Profile (OPP)		
	File Transfer Profile (FTP)		
	Synchronization Profile (SYNC)		
	Hard Copy Cable Replacement (HCRP)		

Technical Specifications

Personal Area Networking Profile (PAN)
Human Interface Device Profile (HID)
FAX Profile (FAX)
Basic Imaging Profile (BIP)
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)

* Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

AUDIO/MULTIMEDIA HD AUDIO

Audio

DTS Studio Sound™
2 Front Facing Stereo Speakers
2 Integrated audio Microphones
3.5 mm Combo headphone/microphone jack*

Cameras

Front Camera: 2MP
Rear Camera: 8MP

* Headphones are sold separately

** Full HD content required for Full HD video playback.

Audio Output Quality

Frequency Response	20 Hz - 20 kHz
Signal to Noise Ratio	-66dBFS
Total Harmonic Distortion	0.074%
Noise Floor	-80 dBFS A-weight
Play/Record Sampling Rate(s)	192 Kbps/96Kbps
DAC	24-bit
ADC	24-bit

Integrated Stereo Speakers

Power Rating	0.5W
Impedance	8 ohm
Dimensions	16 X 9 X 2.1mm

SENSORS

Ambient Light Sensor
Accelerometer
e-Compass
Gyroscope
Proximity Sensor (WWAN only)
Hall Effect Sensor
Haptics

Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

BIOS

Secure Erase¹

Measure Boot (Windows 8.1 only)

Secure Boot (Windows 8.1 only)

Communication

HP Mobile Connect (Windows 8.1 only)

HP Roaming Alert (Windows 8.1 only)

Native Miracast Support²

HP Value Add Software

HP ePrint Driver³

HP Unified Recovery Manager (Windows 8.1 and 10 only)

HP Registration App (Windows 8.1 only)

HP Support Assistant

Microsoft Products

Buy Office

Bing Search

Skype⁴

Client Security Software

Absolute Persistence Module

HP Drive Encryption

HP Security Manager

Microsoft Defender (Windows 8.1 only)

Standard

TPM 1.2/2.0

NOTE: The Absolute Persistence agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S.

Technical Specifications

For more information on HP Client Security Software Suite, refer to <http://www.hp.com/go/clientsecurity>.

¹ For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.

² Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>

³ Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see <http://www.hp.com/go/eprintcenter>). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.

⁴ Skype is not offered in China.

⁵ Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access.

Optional Near Field Communications (NFC)*

NFC Specifications

ISO/IEC 14443A, ISO/IEC 14443B PCD 106 kbps to 848 kbps
 ISO/IEC 14443A, ISO/IEC 14443B PICC 106 kbps to 424 kbps
 ISO/IEC 15693/ICODE reader
 NFC-IP1 and NFC-IP2 protocols, 106 kbps to 424 kbps
 MIFARE reader encryption mechanism
 NFC Forum Types 1-4 card reader
 MIFARE and Felica

Supported Host Interfaces

I2C

Antenna Dimensions

57 x 38.5 x 0.35 mm

Frequency Band

13.56 MHz

RF Output Voltage

3.3 V max

150 mA max (@3.0V output)

Power Consumption

1.5 W (max)

Antenna

Built-in

Antenna Range

Up to 0.79 in (2 cm)

Secure Element Interfaces

NA

Embedded Secure Element (eSE)

NA

ESE Memory

NA

Operating Temperature

-25 °C to +85°C

POWER



Technical Specifications

Power Supply

15 W AC Charging Adapter with USB Type-C™ cable

Battery

21 Whr lithium-polymer

Video Playback

Up to 8 hours video MM2012*

*Windows 8/MM12 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.

Technical Specifications

WEIGHT AND DIMENSIONS

Weight

Starting at 360 grams (0.79 lb) *

Dimensions (w x d x h)

137 x 207 x 8.35 mm (5.39 x 8.14 x 0.33 in)*

* Weight and system dimensions may fluctuate due to configuration and manufacturing variances

PORTS/SLOTS

Ports

(1) USB-Type C™

(1) 3.5 mm Combo headphone/microphone jack*

Expansion Slots

Docking port

MicroSD card slot**

* Headphones are sold separately

** Up to 2TB of expandable storage. MicroSD card sold separately.

IN THE BOX

HP Pro Tablet 608 G1

15 W AC Charging Adapter with USB Type-C™ cable

Quick Start Guide

SERVICE AND SUPPORT

HP Services offers 3-year, 1-year and 90 day 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>.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	100-240V, 50-60Hz
Temperature	Operating	32° to 95° F (0° to 35° C)
	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	40 G, 2 ms, half-sine
	Non-operating	240 G, 2 ms, half-sine
Random Vibration	Operating	1.043 grms
	Non-operating	3.5 grms
Industry Standard Certifications	EMC Compliance - EU/FCC/IC	Yes
	CISPR 22 / EN 55022; CISPR 24 / EN 55024; FCC CFR 47 Part 15 / ICES-003	
	Safety Compliance - UL/CSA/CB	Yes
	IEC/CSA/UL/EN 60950-1	
	Telecom & SAR Compliance - EU/FCC/IC	Yes
	EN 300 328; EN 300 440; EN 301 489; EN 301 893; EN 301 908; EN 301; EN 62311; EN 62209; EN 62479; FCC 47 CFR Part 2; IC RSS102	
	WW - Compliance	Yes
	Americas, APJ, EMEA	
	EPEAT® Gold registered	Yes

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

DISPLAY

Diagonal Size	7.86 inch
Refresh Rate	60Hz
Aspect Ratio	4:3 Wide Aspect Ratio
Format	2048 x 1536
Brightness (typical)*	450 nits (cd/m ²)
Pixels Per Inch	326 PPI

Technical Specifications

ENVIRONMENTAL DATA

Low Halogen*
ENERGY STAR® certified**
Mercury Free display backlights and arsenic-free display glass
All HP computing products are delivered by SmartWay carriers***
Recycled Packaging
Eligible for free recycling or cash back through HP's Planet Partners Recycling and Consumer Buyback programs (<http://www.hp.com/go/easybuyback>)****

Hewlett-Packard 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>

Environment website

<http://www.hp.com/environment>

* External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

** ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency.

*** Designation based on actions to reduce transportation-related emissions. SmartWay: US only. (14e) Free recycling in select countries.

****Program may not be available in your area. Check <http://www.hp.com/go/recycling> to see if HP offers free recycling in your area

Eco-Label Certifications & declarations

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®
- EPEAT® Gold registered in the United States. See <http://www.EPEAT®.net> for registration status in your country.

System Configuration

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)

115VAC, 60Hz

230VAC, 50Hz

100VAC, 60Hz

Normal Operation (Short idle)

4.53 W

4.45 W

4.45 W



Technical Specifications

Normal Operation (Long idle)	1.17 W	1.28 W	1.17 W
Sleep	1.17 W	1.27 W	1.17 W
Off	0.39 W	0.40 W	0.39 W

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	15.49 BTU/hr	15.21 BTU/hr	15.21 BTU/hr
Normal Operation (Long idle)	4 BTU/hr	4.37 BTU/hr	4 BTU/hr
Sleep	4 BTU/hr	4.34 BTU/hr	4 BTU/hr
Off	1.33 BTU/hr	1.36 BTU/hr	1.33 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

**Declared Noise Emissions
(in accordance with
ISO 7779 and ISO 9296)**

Sound Power
(L_{WAd} , bels)

Sound Pressure
(L_{pAm} , decibels)

Typically Configured – Idle

2.1

16



Technical Specifications

Fixed Disk – Random writes

2.1

17

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 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.

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

Mercury greater the 1ppm by weight

Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)

audio type:

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT®) standard at the gold level, see [www.EPEAT®.net](http://www.EPEAT.net)
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0 % post-consumer recycled plastic (by wt.)
- This product is 99 % recycle-able when properly disposed of at end of life.

Packaging Materials

External: PAPER/Corrugated

674 g

The plastic packaging material contains at least 0 % recycled content.



Technical Specifications

The corrugated paper packaging materials contains at least 80 % recycled content.

Material Usage

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/pdf/gse.pdf>):

- 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 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 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 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.

Technical Specifications

End-of-life Management and Recycling

Hewlett-Packard 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 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 re-sell HP equipment.

Hewlett-Packard 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://www8.hp.com/us/en/hp-information/environment/ecolabels.html>

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K_Certificate.pdf

and

<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf>

COUNTRY OF ORIGIN

China

Accessories (sold separately and availability may vary by country)

Type	Description	Part #
Cases / Covers / Protection	HP Pro 8 Bluetooth Keyboard Case	K4U64AA
	HP Pro 8 Smart Cover	K3P99AA
	HP Pro 8 Rugged Case	K3P97AA
	HP Pro Tablet Sleeve	LOW35AA
	HP Pro 8 Travel Keyboard	M1E79AA
Dock	HP Pro Portable Tablet Dock*	N3R96AA *Dock can only be used with Windows 10.
Power / Adapters	HP Quick Charge 18W AC Tablet Adapter	K4Q78AA
	15W AC Power Adapter (USB-C)	N2L83AA
	USB-C to 3.0 and 4.5mm Power Adapter	N2Z65AA
	USB-C to Ethernet and USB 3.0 Adapter	N2Z64AA
	HP Wireless Presenter Adapter	F7W95AA
	HP USB Type-C™ to DisplayPort Adapter	N9K78AA
	HP USB Type-C™ to HDMI Adapter	N9K77AA
	HP USB Type-C™ to VGA Adapter	N9K76AA
HP USB-C™ to RJ45	V7W66AA	
Input / Output	HP Pro Tablet 608 Active Pen	N9D47AA
	HP Mini Wireless Keyboard (Multi-OS)	E5J21AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP X4000b Bluetooth Mouse	H3T50AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP Ultrathin Wireless Mouse	L9V78AA
	HP Ultrathin Wireless Mouse SE	L9V77AA
	USB-C to USB3.0 (STD) Adapter	N2Z63AA
	HP Elite USB-C Docking Station	T3V74AA
HP USB-C™ Travel Dock	T0K294AA	
Cleaning	HP Tablet Cleaning Kit	K6F99AA

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Windows 8/MM12 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.

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Accessories (sold separately and availability may vary by country)

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Change Log

Date of change:	Version History:		Description of change:
June 25, 2015	From v1 to v2	Changed	Need to add DTS under audio and a legal disclaimer note
		Remove	Remove HD audio from Audio/Multimedia
June 26, 2015	From v2 to v3	Removed	Removed “playback” from audio and added MM2012 Remove some accessories
		Change	Change the temperature value Change the SKU numbers for some accessories
July 27, 2015	From v3 to v 4	Change	Change the OS
September 09, 2015	From v4 to v5	Added	Environmental Data section
October 28 2015	From v5 to v6	Added	Specs for security, networking and communication, battery and drives.
April 21, 2016	From v6 to v7	Added	USB-C ports and adapters