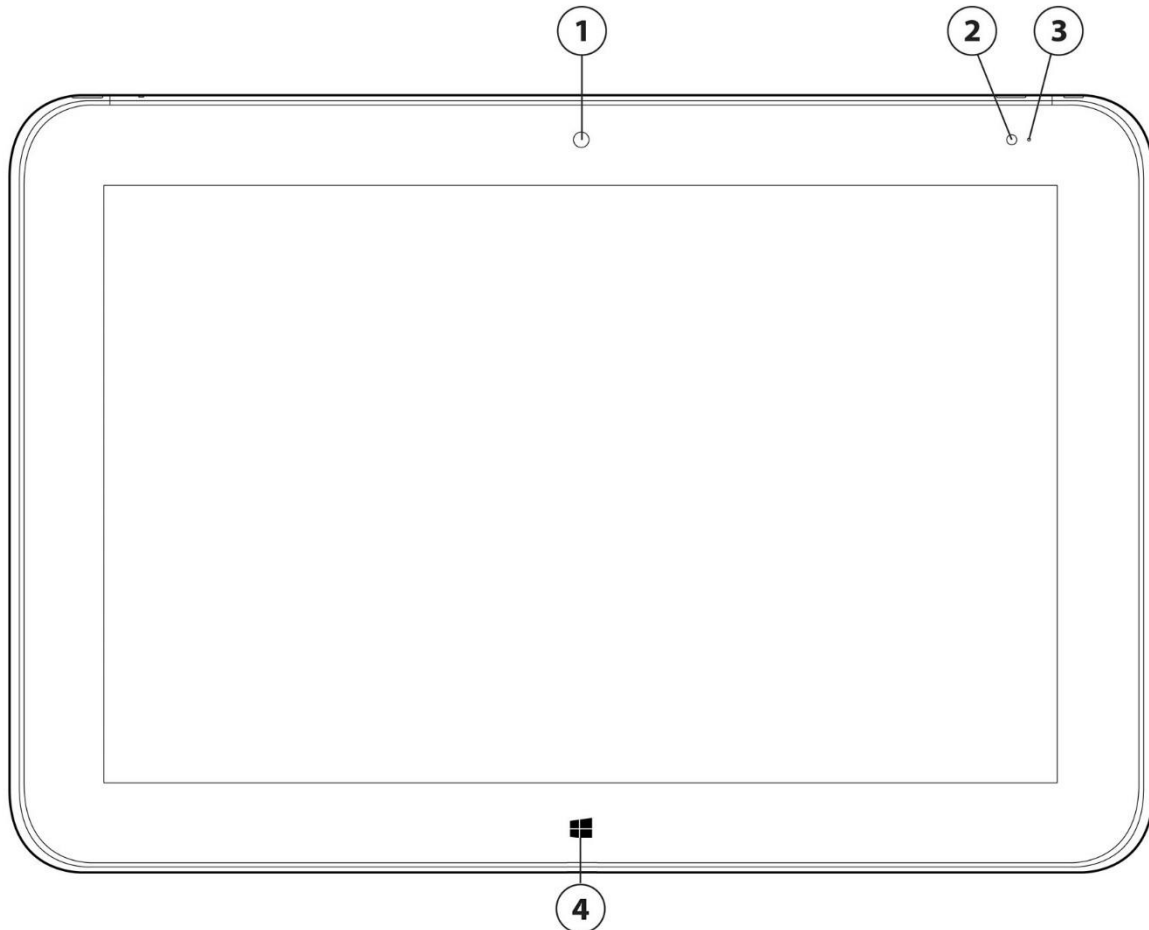


Overview

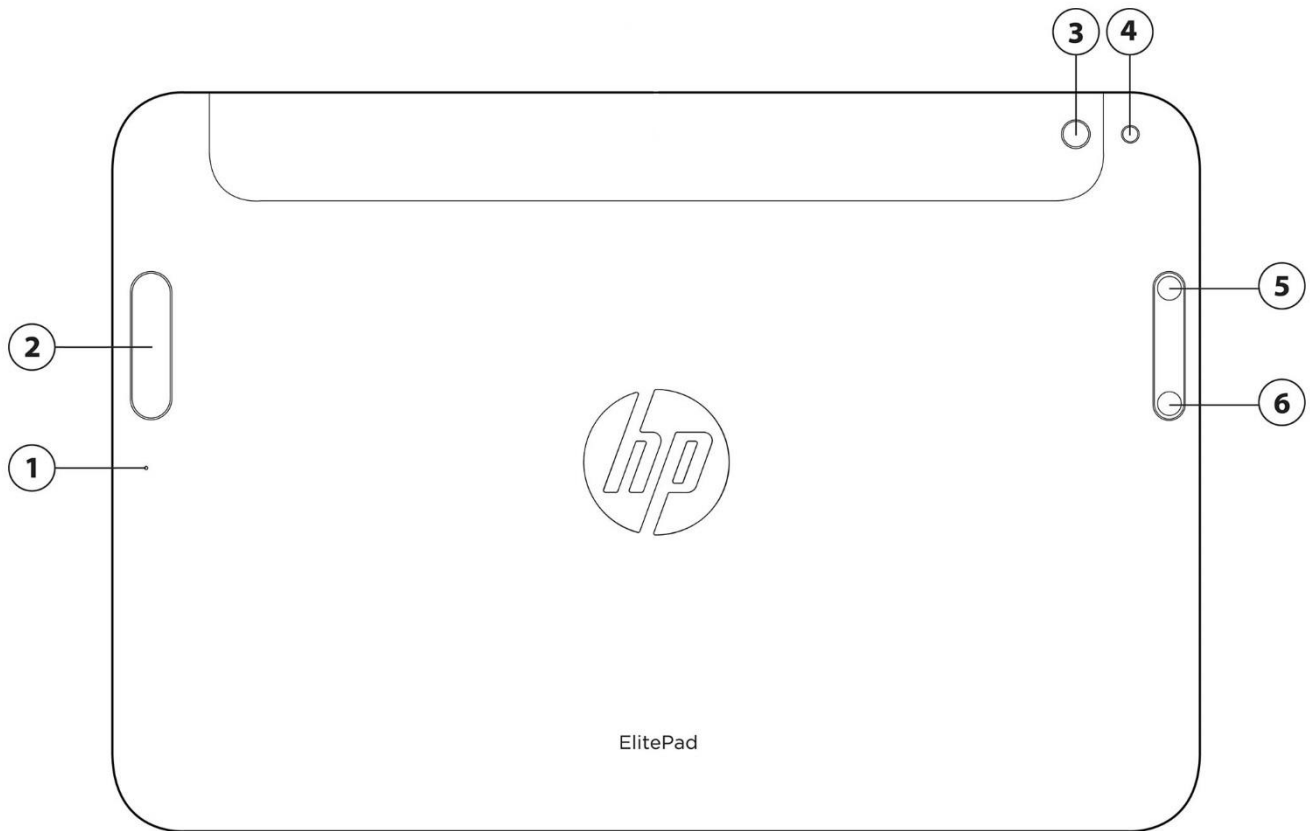
HP ElitePad 1000 G2



Display Side

- | | |
|------------------------------------|----------------------------|
| 1. Front-facing 2.1MP/1080p camera | 3. Front-facing camera LED |
| 2. Ambient Light Sensor (ALS) | 4. Home button |

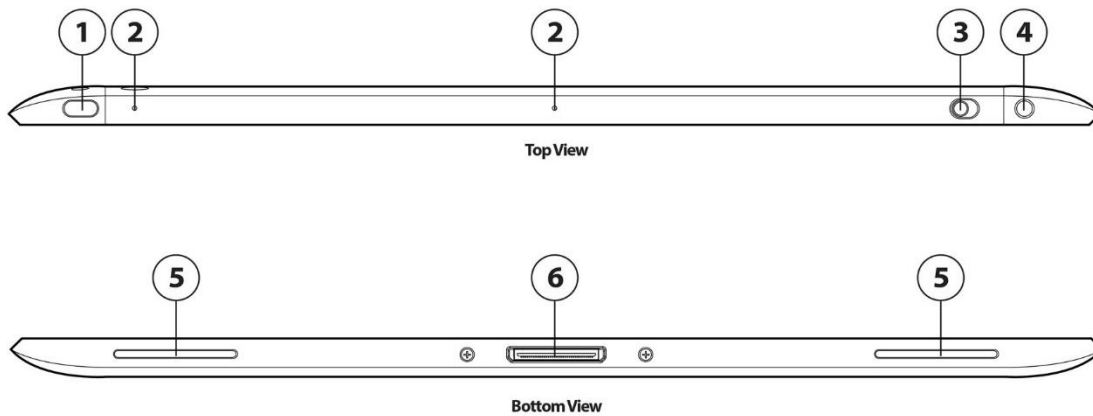
Overview



Rear View

- | | | | |
|----|----------------------------------|----|-------------|
| 1. | MicroSDXC door eject hole | 4. | Flash LED |
| 2. | SIM / MicroSDXC card access door | 5. | Volume up |
| 3. | Rear Facing 8MP camera | 6. | Volume down |

Overview



- | | |
|--|---|
| 1. Power button | 4. Combo headphone-out/microphone-in jack |
| 2. Integrated microphone (dual-microphone array) | 5. Stereo speakers |
| 3. Rotation lock switch | 6. Docking connector |

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, Windows 10
- Two integrated webcams (2.1 MP/1080p (front facing); 8 MP with LED flash (rear facing))
- Intel® Atom Bay Trail-T Z3795 Quad Core 1.6 GHz SoC BGA
- Integrated Intel HD Graphics
- 10.1-inch diagonal full HD (1920 x 1200) wide-viewing angle outdoor display; 16:10 Aspect Ratio
- 4GB LPDDR3 1067 MHz Memory
- Easily hot dock with the optional HP ElitePad Docking Station
- 2-cell (30 WHr) polymer HP Long Life battery
- 64 GB or 128 GB embedded Multi Media Card (eMMC)
- 9.2 mm thin profile
- Weight starting at 1.50 lbs (0.68 kg)
- MicroSDXC card slot supports SDXC Cards up to 2TB
- Wireless connectivity:
 - HP hs3110 HSPA+ Mobile Broadband Module with GPS support
 - HP lt4111 LTE/EV-DO/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support
 - HP lt4112 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support
 - HP lt4225 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support
 - HP lt4226 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support
 - Broadcom 43241 802.11 a/b/g/n (2x2)+ BT 4 LE SDIO
- HP ElitePad Expansion Jacket, HP ElitePad Expansion Jacket with Battery, HP ElitePad Docking Station, HP ElitePad Rugged Case, HP External Optical Drive, HP ElitePad Security Jacket, HP ElitePad Security Jacket with Smart Card Reader and Fingerprint Reader, and HP ElitePad Productivity Jacket are some of the optional accessories that may be included on select configurations
- Standard commercial 1 year warranty with upgrade available with optional HP Care Pack

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

Features

PRODUCT NAME

HP ElitePad 1000 G2

OPERATING SYSTEM

Preinstalled (Windows) Windows 8.1*
Windows 8.1 Pro 64*
Windows Embedded 8.1 Industry 64*
Windows 8.1 Pro 64 (National Academic only)*
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 Windows 8.1
Windows 8.1 Pro 64
Windows Embedded 8.1 Industry 64
Windows 8.1 Pro 64 (National Academic only)
Windows 8.1 Enterprise 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 Z3795 (Quad Core 1.6 GHz base/2.39 GHz burst SoC BGA)*

* 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

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

CHIPSET

Integrated SoC PCH

Features

GRAPHICS

Integrated:
Intel HD Graphics

DISPLAY

Internal

10.1-inch diagonal full HD (1920 x 1200) wide-viewing angle outdoor display

- Wide-viewing angle
- Direct bonded
- Multi-touch capacitive digitizer
- Auto rotate (selectable)
- Tough, durable Corning Gorilla Glass 3
- Anti-smudge coating

External

Up to 32-bit per pixel color depth

HDMI

Supports resolutions up to 1920x1080 @ 60 Hz

STORAGE AND DRIVES

Internal Storage Device

64* or 128 GB* embedded Multi Media Card (eMMC)

MicroSDXC card slot supported

Supports MicroSDXC Cards up to 2TB

Removable Storage

Optional HP External Optical Drive using ElitePad USB connector

* For Solid State Drives (SSD), GB = 1 billion bytes. Actual formatted capacity is less. Up to 5 GB for Windows 8.1 is reserved for system recovery software.

MEMORY

Standard

4 GB LPDDR3 1067 MHz memory

NETWORKING/COMMUNICATIONS

Wireless

Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) is available in select countries. Wireless LAN and integrated Bluetooth are also available (both are factory configurable only) and can be combined with any of the supported wireless WAN options.

Features

Broadband Wireless (WWAN)

HP hs3110 HSPA+ Mobile Broadband Module with GPS support ^{*,**}

HP lt4111 LTE/EV-DO/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support ^{*,**}

HP lt4112 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support ^{*,**}

HP lt4225 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support ^{*,**}

HP lt4226 LTE/HSPA+ Qualcomm® Gobi™ 4G Module with GPS support ^{*,**}

Integrated Wireless LAN

Broadcom 43241 802.11 a/b/g/n (2x2)+ BT 4 LE SDIO^{***}

Other Wireless Features

Miracast

Intel WiDi Software^{****}

* WWAN 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.

** 4G LTE not available on all products, and in all regions.

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

**** Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, tv or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, tv or computer monitor via a standard HDMI cable, also sold separately.

AUDIO/MULTIMEDIA

Audio

HD audio

2 Integrated stereo speakers

2 integrated microphones (dual-microphone array) (noise cancelling and beam forming)

Combo stereo/headphone/microphone jack

Cameras

Integrated 2.1 MP/1080p* with LED (front-facing)

8 MP with LED flash (rear facing)

* HD content required to view HD images.

INPUT DEVICES

Optional HP Executive Tablet Pen G2*

* Sold separately or purchased as an optional feature.

SENSORS

Accelerometer

Features

eCompass
Gyroscope
Ambient Light Sensor
Haptics

SOFTWARE AND SECURITY

Software

Included

Preinstalled (Windows)

Windows 8.1
Windows 8.1 Pro 64
Windows Embedded 8.1 Industry 64
Windows 8.1 Pro 64 (National Academic only)
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 Support

Windows 8.1
Windows 8.1 Pro 64
Windows Embedded 8.1 Industry 64
Windows 8.1 Pro 64 (National Academic only)
Windows 8.1 Enterprise 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>.

Windows 8.1

Windows 10

Security

HP Client Security (incl. Credential Manager and Password Manager)
HP Drive Encryption⁵

Device Access Manager with Just In Time Authentication
Microsoft Defender¹

HP Client Security (incl. Credential Manager and Password Manager)
HP Drive Encryption⁵

Microsoft Defender¹

Features

| | | |
|------------------------------|---|---|
| Communications | HP Mobile Connect ² | HP Mobile Connect ² |
| | HP Wireless Hotspot ³ | |
| | HP Roaming Alert (available from Windows store) | HP Roaming Alert (available from Windows store) |
| HP Value Add Software | HP ePrint Driver ⁴ | HP ePrint Driver ⁴ |
| | HP Manageability | HP Manageability |
| | HP PageLift | Win 10 Welcome App |
| | HP Registration | HP Setup |
| | HP Setup | HP Softpaq Download Manager |
| | HP Softpaq Download Manager | HP Software Setup |
| | HP Support Assistant | HP Support Assistant |
| | HP WallPaper | HP WallPaper |
| | System Default Settings | System Default Settings |
| | UEFI System Diagnostics | UEFI System Diagnostics |
| 3rd Party | Amazon Kindle | |
| | PDF Complete, Corporate Edition | |
| | Box 50GB Offer ⁶ | |
| Microsoft Products | Buy Office | Buy Office |

1. Internet access required.
2. HP Mobile Connect is available in EMEA only and requires a compatible CDMA or HSPA mobile broadband module and prepaid service purchase. Find coverage and availability for your service area at <http://www.hp.com/go/mobileconnect>.
3. The HP Wireless Hotspot application requires an active internet connection and separately purchased data plan. While HP wireless hotspot is active, on-device applications will continue to work and will use the same data plan as the wireless hotspot. Wireless hotspot data usage may incur additional charges. Check with your service provider for plan details. Requires Windows 8.1 or HP Connection Manager for Windows 7.
4. Offer available on new 2013 and 2014 HP Business Desktops, Notebooks, and Tablets. Requires Box registration. Offer available to new Box users only. Offer subject to change without notice. Box app requires Windows 8 or 8.1
5. Requires Windows. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access.
6. Offer available on new 2013 and 2014 HP Business Desktops, Notebooks, and Tablets. Requires Box registration. Offer available to new Box users only. Offer subject to change without notice. Box app requires Windows 8 or 8.1.

Features

Security

Client Management Solutions - Fully manageable and supported by industry-standard HP Client Management Solutions. Optional LANDesk management suite simplifies mobile device management and security. Contact your account team or hp@landesk.com for more information.

LANDesk Management Suite 9.5 (optional) LANDesk Security Suite (optional)
HP SoftPaq Download Manager (SDM)*
HP System Software Manager (SSM)*
HP BIOS Configuration Utility (BCU)*
HP Client Management Interface (HP CMI)*

* **free downloads available at the CMS website under HP Hardware Management tools**
<http://www.hp.com/go/clientmanagement>

Standard

Firmware TPM* (default), hardware TPM (v1.2)
Optional Near Field Communication with Secure Element**

* A subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

** NFC is shipped disabled. NFC is optional and application or software sold separately. **Please note that only NFC standards compliant cards are supported.**

For more information on HP security solutions refer to: <http://www.hp.com/go/security>

POWER

Power Supply

External 10-watt HP ElitePad 10W Smart AC Adapter with detachable duck-heads
Total length is 5.9 ft (180 cm).

Primary Battery

2-cell (30 WHr) Lithium Polymer battery

Battery Life

Up to 13 hours for the tablet alone*

Up to 21 hours:30 minutes with optional HP Expansion Jacket with Battery **

*Testing conducted by HP consisting of full battery discharge while running a series of productivity scripts against the following applications (which may or may not be included with your particular product): Adobe® AcrobatReader 7.0, Adobe® Illustrator® CS2, Adobe® Photoshop® CS2, Apple® Quicktime 7.1, Intervideo® WinDVD® 8, Macromedia® Flash 8, Microsoft® Office® 2003 Pro, Microsoft® Project 2003, and Winzip® 10.0. Prior to testing, the system was fully charged, display brightness was set at 60 nits, wireless was turned off, and auto dim, suspend, hibernate and all other programs, utilities, and services not essential to running the computer system or battery life test were disabled. Battery life will vary depending on the 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.

**Requires separately purchased tablet base. Testing conducted by HP consisting of full battery discharge while running a

Features

series of productivity scripts against the following applications (which may or may not be included with your particular product): Adobe® AcrobatReader 7.0, Adobe® Illustrator® CS2, Adobe® Photoshop® CS2, Apple® Quicktime 7.1, Intervideo® WinDVD® 8, Macromedia® Flash 8, Microsoft® Office® 2003 Pro, Microsoft® Project 2003, and Winzip® 10.0. Prior to testing, the system was fully charged, display brightness was set at 60 nits, wireless was turned off, and auto dim, suspend, hibernate and all other programs, utilities, and services not essential to running the computer system or battery life test were disabled. Battery life will vary depending on the 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.

System Standby Time

Standby life will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

Power Conservation

Balanced

* Sold separately or as an optional feature.

Features

WEIGHTS & DIMENSIONS

Weight

Starting at 1.50 lbs. (0.68 kg) (Weight will vary by configuration.)

Dimensions (w x d x h)

10.28 x 7.01 x 0.36 in

261 x 178 x 9.2 mm

NOTE: Weight varies by configuration and components. Weight includes 2-cell battery, embedded Multi Media Card, and 4 GB memory.

PORTS/SLOTS

Ports

Headphone/Microphone Combo Jack – One
System Connector – One

Digital Media Slots

Micro SDXC card slot
Micro SIM slot

EXPANSION SOLUTIONS*

Optional HP ElitePad G2 USB 3.0 Adapter

Optional HP USB Adapter (Included if a DIB jacket or DIB dock is not configured with the tablet.)

Optional HP ElitePad Serial Adapter

Optional HP ElitePad Docking Station

Optional HP ElitePad Expansion Jacket

Optional HP ElitePad Productivity Jacket

Optional HP ElitePad Security Jacket

Optional HP ElitePad Security Jacket with Smart Card Reader and Fingerprint Reader

* Sold separately or as an optional feature.

SERVICE AND SUPPORT

1-year standard parts, labor and onsite limited warranty, depending on country); 1-year limited warranty on primary battery. Optional HP Care Pack Services* are extended service contracts which go beyond your standard warranties.

For more details visit: <http://www.hp.com/go/cpc>.

* Sold separately or as an optional feature.

NOTE: 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>. 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 | 90 Vac~265 Vac |
| | Average Operating Power | 8 W |
| | Max Operating Power | < 10 W |
| 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 | 200 G, 2 ms, half-sine |
| Random Vibration | Operating | 0.75 grms |
| | Non-operating | 1.50 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 Certifications | UL | Yes |
| | CSA | Yes |
| | FCC Compliance | Yes |
| | ICES | Yes |
| | Australia / NZ A-Tick Compliance | Yes |
| | CCC | Yes |
| | Japan VCCI Compliance | Yes |
| | KC | Yes |
| | BSMI | Yes |
| | CE Marking Compliance | Yes |
| | BNCI or BELUS | Yes |
| | CIT | Yes |
| | GOST | Yes |
| | Saudi Arabian Compliance (ICCP) | Yes |
| | SABS | Yes |
| | UKRSERTCOMPUTER | Yes |

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

Technical Specifications

MIL-STD 810G TEST

- High Temperature test*** The High Temperature test was performed in accordance with MIL-STD-810G, Method 501.5, Procedure I (Storage). This test evaluated the units' performance while it was being exposed to high temperature conditions: 71°C (160°F) nonoperational. Test cycle 24 hours; test consisted of seven cycles.
- High Temperature test*** The High Temperature test was performed in accordance with MIL-STD-810G, Method 501.5, Procedure II (Operation). This test evaluated the units' performance while it was being exposed to high temperature conditions: 60°C (140°F) operational. Four hours duration.
- Low Temperature test*** The Low Temperature test was performed in accordance with MIL-STD-810G, Method 502.5, Procedure I (Storage). This test evaluated the unit's performance while it was being exposed to low temperature conditions: -51°C (-60°F) nonoperational. Four hours duration.
- Low Temperature test*** The Low Temperature test was performed in accordance with MIL-STD-810G, Method 502.5, Procedure II (Operation). This test evaluated the unit's performance while it was being exposed to low temperature conditions: -29°C (20°F) operational. Four hour duration.
- Altitude*** The Altitude test was performed in accordance with MIL-STD-810G, Method 500.5, Procedure I (Storage) and II (Operation). The altitude level simulated for both procedures was 15,000 feet at 57kPa. Four hour duration
- Humidity*** The humidity test was performed in accordance with MIL-STD-810G, Method 507.5, Procedure II. Relative humidity 95%. Temperature cycled between 86oF and 140oF. Test cycle 24 hours; test consisted of ten cycles
- Drop*** The drop test was performed in accordance with MIL-STD-810G, Method 516.6, Procedure IV. The objective of this test was to determine whether the unit was operational after being dropped from desk height. For this test, 26 drops were performed from 30" onto every side, angle and edge onto 2" of plywood over steel over concrete.
- Dust*** The dust test was performed in accordance with MIL-STD-810G, Method 510.5, Procedure I. Test parameters were set so that the unit was dusted with Arizona Road Dust for six hours while being operated. Each cycle was one day (24 hours); ten cycles with the temperature being cycled between 30°C (86°F) and 60°C (140°F); and relative humidity was a constant 95%.
- Vibration*** The vibration test was performed in accordance with MIL-STD-810G, Method 514.6, Procedure I category 4. This test evaluated the units performance after it has been subjected to higher levels of vibration while in storage: Operational U.S. highway truck exposure, 1000 mile Simulation and One hour/axis duration
- Vibration 2*** The vibration test was performed in accordance with MIL-STD-810G, Method 514.6, Procedure I category 24. This test evaluated the units performance after it has been subjected to higher levels of vibration while in storage: Non-operational 0.04 g²/Hz at 20-1000 Hz, -6 dB/octave at 1000-2000 Hz and One hour/axis duration
- Shock*** The shock test was performed in accordance with IL-STD-810G, Method 516.6.5, Procedure I. This test objective was to determine whether the unit could be safely operated after being exposed to sudden physical shock events while operational. For this test, 3 shocks were performed across each axis and direction for a total of 18 shocks -40Gs peak, 11ms

*MIL STD 810G testing is not intended to demonstrate fitness for U.S. Department of Defense contract 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.

Technical Specifications

DISPLAYS

| | | |
|--|----------------------|-----------------------------|
| 10.1-inch diagonal WUXGA wide-viewing angle outdoor display (1920 x 1200) | Diagonal Size | 10.1 inch |
| | Surface | Anti-smudge Gorilla Glass 3 |
| | Refresh Rate | 60Hz |
| | Brightness | 400 nits (typical)* |
| | Format | 1920 x 1200 |

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

STORAGE AND DRIVES

| | | |
|---|---------------------|---|
| 64 GB embedded Multi Media Card (eMMC) | Drive Weight | Up to 2g |
| | Capacity | 64 GB |
| | Height | 1.4 mm |
| | Width | 12 x 16 mm |
| | Interface | MMC protocol v4.51 |
| | Performance | Sequential Read : 100MB/s (min.) Sequential Write : 40MB/s (min.) |
| | Features | Embedded Multi Media Card v4.51 compliant, TRIM, Secure Erase, CMD5 support, Partition management, Enhanced Write Protection, HS200 support |

| | | |
|--|---------------------|---|
| 128 GB embedded Multi Media Card (eMMC) | Drive Weight | Up to 2g |
| | Capacity | 128 GB |
| | Height | 1.4 mm |
| | Width | 12 x 16 mm |
| | Interface | MultiMediaCard Bus |
| | Performance | Sequential Read : 100MB/s (min.) Sequential Write : 40MB/s (min.) |
| | Features | Embedded Multi Media Card v4.51 compliant, TRIM, Secure Erase, CMD5 support, Partition management, Enhanced Write Protection, HS200 support |

SECURITY

| | | |
|--|----------------------------------|---|
| 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 |
| | Supported Host Interfaces | I2C Automatic wakeup from Standby via host control interface |
| | Dimensions | 0.18 x 0.18 x 0.04 in (4.5 x 4.5 x 0.9 mm) |

Technical Specifications

| | |
|--------------------------------------|---|
| Frequency Band | 13.56 MHz ISO Band |
| 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 | SWP/HCI according to ETSI/SCP standardization ISO/IEC 28361 (ECMA 373) NFC-WI. Data rate restricted to 106kbps |
| Embedded Secure Element (eSE) | P5CN145 SmartMX Secure Dual Interface PKI Smart Card Controller |
| eSE Memory | 144 kB EEPROM 264 kB User ROM 7.5 kB RAM (5 kB standard, 2.5 kB FameXE RAM) |

Operating Temperature -13 to 185 °F (-25 to +85°C)

* NFC is shipped disabled. NFC is optional and application or software sold separately. **Please note that only NFC standards compliant cards are supported.**

NETWORKING/COMMUNICATIONS

| | | |
|---|------------------------------------|---|
| HP hs3110/3114 HSPA+ Mobile Broadband Module 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 HSPA+: 2100 (Band 1), 1900 (Band 2), 1700 (Band 4), 850 (Band 5), 900 (Band 8) E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) 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, A-GPS |
| | GPS Bands | 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz |
| | 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 GPRS 1900/1800 MHz: 30 dBm |

Technical Specifications

| | |
|--|--|
| | GPRS 900/850 MHz: 33 dBm EDGE 1900/1800 MHz: 26 dBm EDGE 900/850 MHz: 27 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 | 14° to 131°F (-10° to 55°C) |
| Temperature, Non-operating | -40° to 185°F (-40° to 85°C) |
| Humidity | 5% to 95% |

*** 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 It4111 LTE/EV-DO/HSPA+ 4G WWAN 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) LTE: 1900 (Band 2) , 1700/2100 (Band 4), 850 (Band 5), 700 (Band 13), 700 (Band 17), 1900 (Band 25) MHz HSPA+: 2100 (Band 1), 1900 (Band 2) , AWS 1700/2100 (Band 4), 850 (Band 5), 800 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3) , 850 (Band 5) , 900 (Band 8) MHz EV-DO: 800 (BC0), 1900 (BC1) MHz |
| Wireless Protocol Standards | 3GPP Release 8 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification EVDO Release 0 and Release A |
| 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 |

Technical Specifications

| | |
|---|---|
| | EDGE: UL 236.8 kbps / DL 236.8 kbps GPRS: UL 85.6 kbps / DL 85.6 kbps |
| GPS | Standalone, XTRA |
| GPS Bands | 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz |
| Maximum Output Power | LTE: 23 dBm WCDMA/HSPA/HSPA+: 23 dBm GSM850/900, GMSK: 32 dBm GSM850/900, 8PSK: 27 dBm DCS1800 / PCS 1900, GMSK: 29 dBm DCS1800 / PCS 1900, 8PSK: 26 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 | 2 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 | -13° to 140°F (-25° to 60°C) |
| Temperature, Non-operating | -40° to 185°F (-40° to 85°C) |
| Humidity, Non-operating | 95% |

*** 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 lt4112 LTE/HSPA+ Gobi 4G Module with GPS support* | Technology/Operating bands | LTE FDD all bands with diversity: 2100 MHz (Band I), 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V), 2600 MHz (Band VII), 900 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) LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 2600 (Band7), 900 (Band 8), 800 MHz (Band 20, DD800) MHz HSPA+: 2100 (Band 1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz |
|---|-----------------------------------|--|

Technical Specifications

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

| | |
|---|--|
| Wireless protocol standards | 3GPP Release 8 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification |
| Maximum data rates | LTE: UL 50 Mbs / DL 100 Mbs DC-HSPA+: UL 5.76 Mbs / DL 42 Mbs HSPA+: UL 5.76 Mbs / DL 21.6 Mbs EDGE: UL 236.8 kbps / DL 236.8 kbps GPRS: UL 85.6 kbps / DL 85.6 kbps |
| GPS | Standalone, XTRA |
| GPS bands | 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz |
| Maximum output power | LTE: 23 dBm WCDMA/HSPA/HSPA+: 23.5 dBm GPRS 1900/1800 MHz: 29.5 dBm GPRS 900/850 MHz: 32.5 dBm EDGE 1900/1800 MHz: 26.5 dBm EDGE 900/850 MHz: 27.5 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 | 14° to 131°F (-10° to 55°C) |
| Temperature, Non-operating | -40° to 185°F (-40° to 85°C) |
| Humidity, non-operating | 95% |

*** 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 Lt4225 LTE/EV-DO Gobi 4G Module with GPS support* | Technology/Operating bands | LTE (FDD) B11/B18 CDMA/DO BC0/BC6 |
| | Wireless protocol standards | LTE(FDD):3GPP Release 8 3GPP2: EVDO Rev B, eHRPD |
| | GPS | GPS Standalone, A-GPS, XTRA, Glonass |

Technical Specifications

| | |
|---|---|
| GPS Bands | GPS L1:1575.42 MHz (± 1.023 MHz), Glonass L1: 1602MHz + 0.5625*k |
| Maximum data rates | 1x: UL (153.6 kbps)/DL (153.6 kbps) EVDO Rev.B: UL (5.4 Mbps)/DL (14.7 Mbps) LTE FDD: UL (50 Mbps)/DL (100 Mbps) @ Bandwidth 20M (CAT3) |
| Maximum transmitter power | LTE: Accorded with 3GPP TS 36.101 R8 Class 3(23dBm) CDMA BC0 :+23 dBm (Power Class 3) CDMA BC6: +23 dBm (Power Class 2) |
| Maximum power consumption | 2500mA (peak); 1100mA (average) |
| Power consumption, sleep mode | 1.6 mA(RF close) 3.6mA(register on net) |
| Power management | USB selective suspend |
| Antenna type | RF connector MM4829-2702RA4 by MURATA or other equivalent connectors |
| Form Factor | M.2, 3042-S3 Key B |
| Weight | <6 g |
| Dimensions (Length x Width x Thickness) | 42 mm x 30 mm x 2.3 mm |
| Voltage, Operating | 3.135V to ~4.4V (3.3 V recommended) |
| Temperature, operating | -10° C° to 55° C |
| Temperature, storage | -40°C to 85° C |
| Humidity | 5% to 95% |

*** 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 Lt4226 LTE/HSPA+ Gobi 4G Module with GPS support* | Technology/Operating bands | LTE (FDD) B1/B19/B21 DC-HSPA+/HSPA+/HSPA/UMTS B1/B5/B6/B19 |
| | Wireless protocol standards | LTE(FDD):Release 8 UMTS/WCDMA: Release 99 and Release 7 |
| | GPS | GPS Standalone, A-GPS, XTRA, Glonass |
| | GPS Bands | GPS L1:1575.42 MHz (± 1.023 MHz), Glonass L1: 1602MHz + 0.5625*k |
| | Maximum data rates | WCDMA PS: UL (384 kbps)/DL (384 kbps) DC-HSPA+: UL (5.76 Mbps)/DL (42 Mbps) LTE FDD: UL (50 Mbps)/DL (100 Mbps) @ Bandwidth 20M (CAT3) |
| | Maximum transmitter power | WCDMA/HSPA+: +24dBm (Power Class 3) LTE: Accorded with 3GPP TS 36.101 R8 Class 3(23dBm) |
| | Maximum power consumption | 2500mA (peak); 1100mA (average) |
| | Power consumption, sleep mode | 1.6 mA(RF close) 3.6mA(register on net) |
| | Power management | USB selective suspend |

Technical Specifications

| | |
|---|--|
| Antenna type | RF connector MM4829-2702RA4 by MURATA or other equivalent connectors |
| Form Factor | M.2, 3042-S3 Key B |
| Weight | <6 g |
| Dimensions (Length x Width x Thickness) | 42 mm x 30 mm x 2.3 mm |
| Voltage, Operating | 3.135V to ~4.4V (3.3 V recommended) |
| Temperature, operating | -10° C° to 55° C |
| Temperature, storage | -40°C to 85° C |
| Humidity | 5% to 95% |

*** 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.**

BROADCOM DUAL BAND WIRELESS-N 43241 802.11 A/B/G/N (2X2) WIFI + BLUETOOTH 4.0 COMBO ADAPTOR *

| | |
|-------------------------------|---|
| WIRELESS LAN STANDARDS | IEEE 802.11A IEEE 802.11B IEEE 802.11G IEEE 802.11N |
| Interoperability | Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN) |
| Frequency Band | 802.11b/g/n 2.402 - 2.482 GHz 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 |
| Antenna Structure | 2 transmit; 2 receive (2x2) |
| Data Rates | 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) |
| Modulation | Direct Sequence Spread Spectrum CCK, BPSK, QPSK, 16-QAM, 64-QAM |
| Security¹ | <ul style="list-style-type: none"> • 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 • WAPI |

Technical Specifications

| | |
|--|---|
| 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 | IEEE 802.11 compliant roaming between band Access Points |
| Output Power² | <ul style="list-style-type: none"> • 2.4G: +13.5dBm minimum • 5G: +12dBm minimum |
| Power Consumption | Transmit: 2.0 Watts Receive: 1.6 Watts Idle mode ³ : 150 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Radio off: 25 mW |
| Power Management | 802.11 compliant power saving mode |
| Receiver Sensitivity⁴ | 802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps) 802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm (11 Mbps) 802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps) 802.11n:-69 dBm (150 Mbps), -66 dBm (300 Mbps) |
| Antenna Connections | 2 U.FL type connectors (output impedance of 50 ± 2 ohms) |
| Form Factor | Customize LGA Card |
| Dimensions | Width 17 x Depth 10.5 x High 1.5(mm) |
| Operating Voltage | 3.3v +/- 9% and 1.8V +/- 9% |
| Temperature | Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C) |
| Humidity | Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing) |
| Altitude | Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m) |
| HP Integrated Module with Bluetooth 4.0 LE SDIO Wireless Technology* | |
| *This module is Bluetooth Smart Ready for systems running Windows 8 and Windows 8.1. | |
| Bluetooth Specification | BT 4.0 LE SDIO |
| Dimensions | Width 17 x Depth 10.5 x High 1.5(mm) |
| Frequency Band | 2402 to 2480 MHz |
| Number of Available Channels | 79 (1 MHz) available channels |
| | 3 Mbps data rate; throughput up to 2.17 Mbps |

Technical Specifications

| | |
|-------------------------------------|--|
| Data Rates and Throughput | 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 | -1.5 dBm to 4 dBm (Bluetooth Class II) |
| Receiver Sensitivity | Better than -20 dBm at 0.1 % raw bit error rate |
| Power Consumption | Peak (Tx) 300 mW Peak (Rx) 180 mW Selective Suspend 10 mW |
| Antenna | Internally integrated within module |
| Range | Up to 33 ft (10 m) |
| Electrical Interface | UART compliant Microsoft Windows Plug and Play compliant |
| Bluetooth Software Supported | Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software |
| Link Topology | Point to Point, Multipoint Pico Nets up to 7 slaves |
| Security | Full support of Bluetooth Security Provisions |
| 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) ¹ Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) ^{1,2} Generic Object Exchange Profile (GOEP) ^{1,2} Object Push Profile (OPP) ^{1,2} File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) ^{1,2} Personal Area Networking Profile (PAN) ^{1,2} Human Interface Device Profile (HID) ^{1,2} FAX Profile (FAX) Basic Imaging Profile (BIP) ² 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.**

Technical Specifications

AUDIO/MULTIMEDIA – HD AUDIO

| | | | |
|---|--|---|--|
| Audio Output Quality | Frequency Response | 20 Hz - 20 kHz | |
| | Signal to Noise Ratio | >85 dB | |
| | Total Harmonic Distortion | 0.01% | |
| | Noise Floor | -110 dB | |
| | Play/Record Sampling Rate(s) | 8 kHz - 48kHz | |
| | DAC | 16, 20 or 24-bit | |
| | ADC | 16 or 20-bit | |
| Integrated Stereo Speakers | Power Rating | 500mW | |
| | Impedance | 4 ohm | |
| POWERHP 10W NON-SMART AC ADAPTER | Dimensions | 2.56 x 2.17 x 1.12 in (65.0 x 55.0 x 28.5 mm) | |
| | Input | Input | 100 to 240 VAC |
| | | Input dPower Rating | < 15W |
| | Output | Input frequency range | 47 – 63 Hz |
| | | Input AC current | 0.3A at 90 VAC |
| | | Voltage | 9V +/- 4.0% |
| | | Constant power | 11 W (maximum) continuously between DC output 9V – 6.5V |
| | | Hold-up time | 5 msec at 115 VAC input |
| | | Output current limit | 1.1A |
| | | Connector | 3 pin/grounded, mates with interchangeable cords; 70 pin / tyco connector (to tablet side) |
| | Environmental Design | Operating temperature | 32° to 95° F (0° to 35° C) |
| | | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |
| | | Operating altitude | 0 to 16,404 ft (0 to 5,000 m) |
| | | Non-operating altitude | 0 to 50,000 ft (0 to 15,240 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 | | |
| Weight | 0.17 kg | | |
| Dimensions (H x W x L) | 8.7 x 1.56 x 0.17 in | | |

Technical Specifications

(22.09 x 13.963 x 0.43 cm)

Cells/Type

2-cell, Lithium Ion Polymer

Energy

Voltage 7.4V

Amp-hour capacity 4.2

Watt-hour capacity 30Wh

Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C)

Non-operating -4° to 140° F (-20° to 60° C)

Temperature

Battery Re-Charge Time **System in OFF or Standby Mode** depends on system setting

System ON depends on system setting

Fuel Gauge LED

No

Warranty

36 months

Optional Travel Battery Available

No

**HP 2-cell (30 WHr)
Polymer Long Life
Primary battery**

Environmental Data

ENVIRONMENTAL DATA

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

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) | 2.83 W | 2.98 W | 2.83 W |
| Normal Operation (Long idle) | 1.22 W | 1.21 W | 1.22 W |
| Sleep | 0.26 W | 0.29 W | 0.26 W |
| Off | 0.20 W | 0.22 W | 0.20 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) | 10 BTU/hr | 10 BTU/hr | 10 BTU/hr |
| Normal Operation (Long idle) | 4 BTU/hr | 4 BTU/hr | 4 BTU/hr |
| Sleep | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |
| Off | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |

* 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 (LWAd, bels) | Sound Pressure (LpAm, decibels) |
|-----------------------------|-----------------------------|------------------------------------|
| Typically Configured - Idle | 2.0 | 14 |
| Fixed Disk - Random writes | 2.0 | 14 |

Batteries

Product Does not contain batteries

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).

Environmental Data

- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 7.7% post-consumer recycled plastic (by wt.)
- This product is 97.6% recycle-able when properly disposed of at end of life.

| | | | |
|----------------------------|------------------|-----------------------------------|---------|
| Packaging Materials | External: | PAPER/Paper | 253.3 g |
| | Internal: | PLASTIC/Polyethylene low density | 6.5 g |
| | | PLASTIC/EPE-Expanded Polyethylene | 29 g |

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

The PAPER/Paper packaging materials contains at least 71.22% recycled content.

CLEANING

The following cleaning solutions, if used as instructed in the user guide, will not harm the HP ElitePad 1000 G2:

- Benzyl-C12-18-alkyldimethyl ammonium chlorides < 1%
- Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides < 1%
- Isopropanol 10- 20%; Ethylene Glycol Monobutyl Ether 1- 5%)
- n- Alkyl Dimethyl Benzyl Ammonium Chloride 5%-10%
- Didecyl Dimethyl Ammonium Chloride 5%-10%
- Ethyl Alcohol 1%-5%
- Lauryl dimethyl amine oxide 0.1%-1.5%
- Alkyl dimethyl benzyl ammonium chloride.....0.16%
- Octyl decyl dimethyl ammonium chloride.....0.12%
- Dioctyl dimethyl ammonium chloride.....0.06%
- Didecyl dimethyl ammonium chloride.....0.06%
- Ethylene glycol n-hexyl ether 0.1%-1.0%
- Isopropanol 1%-5%
- Water 90%-95%
- Sodium hypochlorite 1%-5%
- Sodium hydroxide 0.5%-2%
- Dimethyl benzyl ammonium chloride 0.3 percent maximum concentration disposable wipes that come in a variety of brand names.
- Alcohol-free glass cleaning fluid
- Water with mild soap solution

Please refer to the user guide that came with your product for detailed instructions about how to clean your HP ElitePad 1000 G2 using these solutions.

MATERIAL USAGE

This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment

(http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants

Environmental Data

- 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
- 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)
- Nickel finishes that release greater than 0.5 µgrams/cm²/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

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.

END-OF-LIFE MANAGEMENT AND RECYCLING

Eligible for recycling or cash back through HP's buyback and recycling program.*

<http://www.hp.com/go/smbrecycling> (10 units or less)

<http://www.hp.com/go/businessrecycling> (overview of all business related end of use programs)

Email recycling.quote@hp.com to get a quote or details on recycling programs

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

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.

Environmental Data

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>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

COUNTRY OF ORIGIN

China

Options and Accessories (sold separately and availability may vary by country)

| Type | Description | Part # |
|---------------------|--|-----------------|
| Cases | HP ElitePad Case | H4R88AA |
| | HP ElitePad Dockable Case | F1M97AA |
| | HP ElitePad Exp Jacket Case | H7A97AA |
| | HP ElitePad Rugged Case | H4R89AA |
| | HP G2 ElitePad Rugged Case | F5A38AA |
| Docking | HP ElitePad Expansion Jacket | H4J85AA |
| | HP ElitePad Expansion Jacket with Battery | D2A23AA |
| | HP ElitePad Expansion Jacket Cover | H7A97AA#ABA |
| | HP ElitePad Docking Station | H4J84AA |
| | HP ElitePad Docking Station (EMEA) | COM84ET#ABB/ABU |
| | HP ElitePad Docking Station (Americas) | COM84UT#ABA |
| | Optional HP ElitePad Docking Station | COM84AA#ABA |
| Security | HP Security Jacket Cover | E6N31AA |
| | HP Security Jacket w/SCR | E5S90AA |
| | HP Security Jacket w/SCR and FPR | E5S91AA |
| Input/Output | HP Executive Tablet Pen (G2)* | F3G73AA |
| | HP Executive Capacitive Stylus | G4Y85AA#ABA |
| | HP ElitePad 3.0 Adapter | E8F98AA |
| | Optional HP ElitePad G2 USB 3.0 Adapter | E8F98AA |
| | HP ElitePad Productivity Jacket | D6S54AA |
| | HP ElitePad Productivity Jacket (Americas) | D6S54UT#ABA |
| | HP ElitePad Productivity Jacket (EMEA) | D6S54ET#ABB |
| | Optional HP ElitePad Security Jacket | E5S90AA |
| | HP Security Jacket Cover | E6N31AA |
| | Optional HP ElitePad Security Jacket with Smart Card Reader and Fingerprint Reader | E5S91AA |
| | HP ElitePad SD Card Reader | H3N48AA |
| | HP ElitePad Serial Adapter | H3N50AA |
| | HP Slim Bluetooth Keyboard | H4Q44AA |
| | HP Mini Wireless Keyboard (Multitouch) | E5J21AA |
| | HP Ultra Mobile Wireless Mouse | H6F25AA |
| | HP X4000b Bluetooth Mouse | H3T50AA |
| | HP Slim Bluetooth Mouse | F3J92AA |
| | HP Touch to Pair Mouse (Bluetooth) | H6E52AA#ABA |

Options and Accessories (sold separately and availability may vary by country)

* HP Executive Tablet Pen (G2) is only compatible with HP ElitePad 1000 G2 and HP Revolve G2.

| | | |
|-------------------------|--|-----------|
| Power | HP ElitePad 10 Watt AC Adapter | H4K08AA |
| | HP 65W Smart Adapter | ED49494AA |
| | HP ElitePad 40W AC Adapter | H5W93AA |
| | HP ElitePad Jacket Battery | H4F20AA |
| | HP ElitePad 12W USB Auto Adapter | F5V87AA |
| | HP ElitePad Smart AC Adapter | H3N47AA |
| | HP ElitePad USB Chrg 24Pk Cable | F5V88A6 |
| Video | HP ElitePad HDMI & VGA Adapter | H3N45AA |
| Networking | HP ElitePad Ethernet Adapter | H3N49AA |
| | HP ElitePad Power/Ethernet Adapter | F9D31AA |
| Charging Station | HP Multi-Tablet Charging Module | H4W98UT |
| Miscellaneous | HP Retail Jacket for ElitePad No Battery | E6R78AA |
| | HP Retail Jacket for ElitePad w/Battery | E6R79AA |
| | HP Tablet Cleaning Kit | K6F99AA |

NOTE: For additional information and specifications for the HP ElitePad Accessories, please access the HP ElitePad Accessories QuickSpecs: http://h18004.www1.hp.com/products/quickspecs/14491_div/14491_div.html

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Options and Accessories (sold separately and availability may vary by country)

Summary of Changes

| Date of change: | Version History: | | Description of change: |
|------------------------|-------------------------|----------|--|
| July 16, 2014 | From v1 to v2 | Upgrade | Change the version so it would match the PB |
| | | Addition | Added the change log |
| August 20, 2014 | From v2 to v3 | Remove | Remove from Options the value "HP USB External DVDRW Drive F2B56AA" |
| October 2, 2014 | From v3 to v4 | Addition | Added new accessory to the Miscellaneous under options "HP Tablet Cleaning Kit " |
| November 10, 2014 | From v4 to v5 | Removal | Remove the value "DTS Sound" from all instances |
| January 27, 2015 | From v5 to v6 | Addition | Added new section for cleaning |
| February 24, 2015 | From v6 to v7 | Change | Change the value on battery life |
| April 17, 2015 | From v7 to v8 | Change | Change the value on OS support. |
| July 28, 2015 | From v8 to v9 | Change | Change OS for the Windows 10 upload |
| August 28, 2015 | From v9 to v10 | Addition | Added new chart MIL-STD 810G TEST |
| May 11, 2016 | From V10 to v11 | Update | Updated the % of the packaging materials |