Overview

HP EliteBook Folio 1020 G1 Notebook PC


Front

1. 720p HD webcam	6. Power button
2. 12.5" diagonal display	7. Antennas
3. Keyboard	8. Webcam LED
4. Fingerprint reader	
5. ForcePad™	
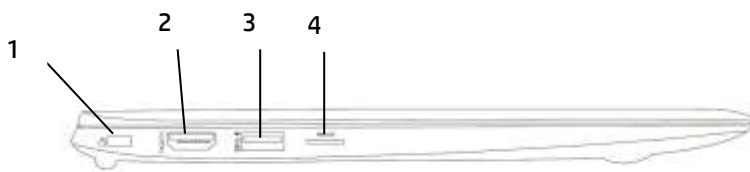
Side

1. Lock slot	3. USB charging port
2. HDMI port	4. Micro SD Media Reader Slot
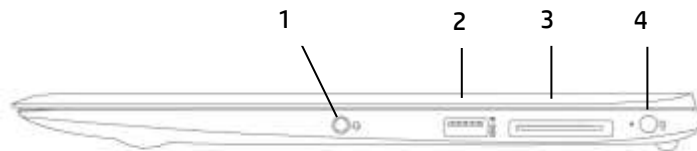
Side

1. Headphone/microphone combo	3. Side docking connector
2. USB charging port	4. Power connector

Overview
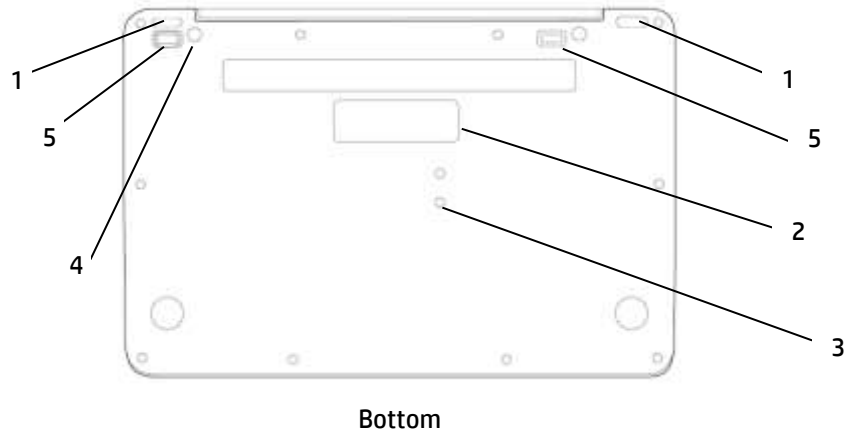
Bottom

1. Rubber anti-skid feet
2. Service tag
3. Spill resistant keyboard drains

4. Docking station guides
5. Docking station lock slot

At A Glance

- Standard edition: weight starting at 1.2kg/2.68lbs and height of 15.7mm; crafted from CNC aluminum and magnesium alloy
- Special edition: weight of 1kg/2.2lbs and height of 15.7mm; crafter from forged magnesium-lithium alloy and carbon fiber
- Enhanced security features including HP Sure Start self-healing BIOS, HP Client Security, HP BIOSphere, and hardware security like HP Fingerprint Reader and optional vPro
- Enhanced durability through MIL-SPEC 810G testing, plus an additional 115,000 hours of reliability testing through HP's Total Test Process
- Fan-less, all solid state design, and choice of latest Intel® Core-M Processors with integrated Intel® HD Graphics
- Choice of Solid State Drives up to 512 GB or Self Encrypting Drive up to 256 GB (SED Standard edition only)
- New HP Premium Keyboard for enhanced user typing experience; also full size, spill-resistant, and backlit
- HD Audio with DTS Studio Sound™ optimized for high fidelity audio, 720p HD webcam for videoconferencing and still image capture, HP Noise Reduction Software for clean videoconferencing
- Suite of optional accessories including docking stations, displays, mice and carrying cases
- Windows 8.1 versions, Windows 7 versions, FreeDOS 2.0 or Ubuntu Linux
- 12.5" diagonal QHD Touch (Standard), anti-glare non-touch FHD (Standard), or anti-glare non-touch QHD (Special) displays
- Up to 8 GB of memory
- 4-Cell (36 Whr) HP Long Life battery for battery life up to 9 hours
- ForcePad™ pressure-sensing Touchpad responds to a tap or a light pressure to support and enhance both basic and advanced touch gestures
- Flexible wireless connectivity
- Meets military standards 810G testing* for drop, vibration, functional shock, dust, altitude, and high and low temperature*.

* Testing was 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.

Overview

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

Features

PRODUCT NAME

HP EliteBook Folio 1020 G1 Notebook PC

OPERATING SYSTEM

Preinstalled	Windows 8.1 Pro 64*
	Windows 8.1 Pro 64 for Education*
	Windows 8.1 64*
	Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro 64)**
	Windows 7 Professional 32 (available through downgrade rights from Windows 8.1 Pro 64)**
	Windows 7 Professional 32*
	FreeDOS 2.0
	Ubuntu Linux (Not available on Touch)
Web only support	Windows 8 Enterprise 64*
	Windows 7 Enterprise 64*
	Windows 7 Enterprise 32*
	Windows 7 Professional 64*
	Windows 7 Professional 32*
Certified	Microsoft WHQL

* Not all features are available in all editions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com for details.
** This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSOR

Intel® Core M-5Y51 1.1 GHz (max turbo frequency 2.6 GHz), 4 MB L3 Cache, 4.5W (Kit)
Intel® Core M-5Y71 1.2 GHz (max turbo frequency 2.9 GHz), 4 MB L3 Cache, 4.5W

* 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.
† Not available with vPro
NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET

Integrated with processor

QuickSpecs

Features

> **NOTE:** Internal component upgrades to memory are not available after factory configuration.

NETWORKING/COMMUNICATIONS

Wireless
Support for WLAN featuring support for the latest industry standards.
Wireless LAN and integrated Bluetooth are also available both are factory configurable only.

WLAN
Intel® 802.11 a/b/g/n (2x2) with Bluetooth® v4.0 Combo*
Intel® 802.11 (2x2) AC with Bluetooth® v4.0 Combo* , **

*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.

AUDIO/MULTIMEDIA

Audio
HD Audio with DTS Studio Sound™
Two integrated stereo speakers
Integrated dual- array microphone

Webcam
720p HD* webcam

- HD format (widescreen)
- Supports videoconferencing and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1280x720 resolution
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range

*HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Spill-resistant with drain
Backlit
DuraKeys
Function Keys provide easy access to the following features:
F1 - Blank
F2 – Forcepad on/off
F3 - Sleep
F4 - Display Switching
F5 - Mute
F6 - Volume Down
F7 - Volume Up
F8 - Mic Mute
F9 - Brightness Down
F10 - Brightness Up
F11 - Backlight Toggle

Features

F12 - Wireless On/Off

ForcePad™
A pressure-sensing ForcePad™ that eliminates the need for repetitive motion and makes navigation easier
ForcePad™
Glass with chemical etched surface
Taps enabled as default
Gestures enabled by default - 2 Finger Scrolling, 2 Finger Zoom (Pinch)

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

Security Software
HP BIOSphere[1]
Absolute Date Protect (Windows 8.1 only)[2]
HP Sure Start
HP DriveLock | HP Automatic Drive Lock
HP BIOS Protection[3]
HP Disk Sanitizer[4]
HP SpareKey[5]
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Pre-Boot Security
Secure Erase[6]
Hybrid Boot (Windows 8.1 only)
Measure Boot (Windows 8.1 only)
Secure Boot (Windows 8.1 only)
Absolute Persistence Module[7]

HP Client Security Software Suite
HP Client Security Manager (Windows only)
HP Device Access Manager
HP File Sanitizer[12]
HP Drive Encryption[17]

MultiMedia
Cyberlink Power DVD, BD
Cyberlink YouCam BE (Windows 7 only)

Communication
HP Wireless Hotspot (Windows 8.1 only)[10]
Intel® Wireless Display (WiDi) Software for Windows[11]
Intel® My WiFi and Wireless Drivers
Lync optimized

HP Value Add Software
Getting Started with Windows 8
HP 3D DriveGuard (Windows required)
HP ePrint Driver (HP Exclusive) [13]
HP Hotkey
HP PageLift
HP Recovery Manager (Windows 7 only)

Features

HP Support Assistant
HP Recovery Disc Creator (Windows 7 only)
UEFI System Diagnostics W8

Manageability
HP Driver Packs[15]
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)[15]
HP BIOS Config Utility (BCU)[15]
HP Client Catalog / HP CIK for Microsoft SCCM[15]
LANDESK Management[16]

3rd Party
Adobe® Flash Player (Commercial)
Foxit PhantomPDF Express for HP[8]
Bing Search
Buy Office

Security
TPM Embedded Security Chip 1.2/2.0[14]
Security lock slot
Fingerprint Reader

1. HP BIOSphere features may vary depending on the PC platform & configuration.
2. Absolute Data Protect software is preloaded, subscription required. See
http://www.absolute.com/landing/2012/computrace-hp for complete details. Absolute Data Protect agent is
shipped turned off, and must be activated by customers. Service may be limited, check with Absolute for
availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited
warranty. Certain conditions apply. For full details visit:
http://www.absolute.com/company/legal/agreements/computrace-agreement. If Data Delete is utilized,
the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must
first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens
from Absolute Software.
3. HP BIOS Protection requires a HPTools partition for automatic recovery
4. For the use cases outlined in the DOD 5220.22-M Supplement. Does not support solid state drives and
requires Windows.
5. Requires initial user set up.
6. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-
88.
7. BIOS Absolute Persistence module is shipped turned off, and will be activated when customers purchase
and activate a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The
optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply.
For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. If Data
Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service,
customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more
RSA SecurID tokens from Absolute Software.
8. Read only.
10. 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
11. 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,

Features

TV or computer monitor via a standard HDMI cable, also sold separately.

12. Managed devices must be connected to the management server. Location based functionality requires active LANdesk maintenance service. Wipe functionality performs a "Windows 8 Reset" and requires Windows 8. Lock performs a Windows "Lock Computer."

13. 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 www.hp.com/go/businessmobileprinting).

14. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89

as implemented by Intel Platform Trust Technology (PTT).

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

15. Not preinstalled, however available on manageability website.

16. LANDesk is an optional feature sold separately. Managed devices must be connected to the management server. Location based functionality requires active LANdesk maintenance service. Wipe functionality performs a "Windows 8 Reset" and requires Windows 8. Lock performs a Windows "Lock Computer.".

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

POWER

Power Supply

45W Smart AC Adapter
45W AC Adapter 2 prong (Japan only)
65W Smart EM AC Adapter
65W Slim Smart AC Adapter
Power cord included is 3.2 ft /1 m long
Optional Power cord 1.8m long   (Sold separately.)

Primary Battery

HP 4-Cell (36 Whr) Long Life Polymer

Battery Life

Platform	Other Hardware details	Battery	With UMA Graphics
HP EliteBook 1020 G1	M.2 SSD	4-cell (36 Whr)	Up to 9 hrs

System Standby Time

Up to TBD weeks

Power Conservation

Hibernation
Standby
ACPI compliance

Features

WEIGHTS & DIMENSIONS

Ultra light Model
Weight
Non Touch
Starting at 2.20 lbs/ 1 kg

Standard Model
Weight
Non Touch
Starting at 2.68 lbs/ 1.22 kg
Touch
Starting at 2.81 lbs/ 1.27 kg
Weight varies by configuration and components.

Dimensions (w x d x h)
310 x 210 x 15.7 mm
12.2 x 8.27 x .62 in

Note:FHD no touch / QHD with touch

PORTS/SLOTS

Ports
(2) USB 3.0 Charging ports
HDMI port
Docking connector
Headphone/microphone combo
4.5mm Multi-Pin AC Port

Digital Media Slots
Micro SD Media Reader Slot
Supports SD, SDHC, SDXC

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
TBD

ENVIRONMENTAL

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 (Sort idle)	7.48 W	7.80 W	7.66 W
Normal Operation (Long idle)	2.27 W	2.67 W	2.31 W
Sleep	0.24 W	0.34 W	0.23 W
Off	0.22 W	0.32 W	0.21 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)	26 BTU/hr	27 BTU/hr	26 BTU/hr
Normal Operation (Long idle)	8 BTU/hr	9 BTU/hr	8 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 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	2.6	14
Fixed Disk – Random writes	2.6	14

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

Batteries used in the product do not contain:
    Mercury greater the1ppm by weight
    Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium

Technical Specifications

Battery size: 4-cell high capacity Lithium-Ion battery

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
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0 s% post-consumer recycled plastic (by wt.)
- This product is 97.8 % recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	367.9 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	18.6 g
	PLASTIC/Polyethylene low density	14.5 g

The plastic packaging material contains at least 50 % recycled content.
The corrugated paper packaging materials contains at least 70 % 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)

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 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

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

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

Type	Description	Part Number
Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
Docking	HP 2013 UltraSlim Docking Station	D9Y32AA
	HP 3001pr USB 3 Port Replicator	F3S42AA
	HP USB 3.0 Port Replicator (Spin)	H1L08AA#xxx
	HP Universal Port Replicator (in testing)	E6D70AA#xxx
Input/Output - Keyboard	HP Touch To Pair Mouse	H6E52AA
	HP keyyboard and mouse	G1K29AA#xxx
	HP Stylish USB Keyboard and Mouse	H4B79AA
Adapters	HP Wireless display adapter	J1V25AA#xxx
	HP USB dual output adapter	C5U89AA
Input/Output	HP Stylish USB KB/Mouse	H4B80AA
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	USB Graphics Adapter (DBU PL)	NL571AA
	HDMI to VGA Adapter	H4F02AA
	HP HDMI to DVI Adapter	F5A28AA
	HP EliteFolio Ethernet/VGA Adapter II (Sidecar2)	TBD
Power	HP 45W Smart AC Adapter (4.5mm)	H6Y88AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Security	12.5" Privacy Filter (2 way)	J6E64AA
	HP UltraSlim Keyed Cable Lock	H4D73AA
Monitors	HP EliteDisplay S240ml 23.8-in MHL Monitor	F4M47AA
	HP EliteDisplay E221c 21.5-in Webcam Monitor	D9E49AA
	HP EliteDisplay E221i 21.5-inch IPS Monitor	F9Z09AA

Summary of Changes

Date of change:	Version History:		Description of change:
January 22, 2015	V1 to V2	Changed	Line art callouts on pages 1, 2,
		Removed	WWAN references on pages 7, 8
January 26, 2015	V2 to v3	Added	Environmental data on page 9
February 3, 2015	V2 to v3	Added	Battery life on page 11 Military standards test results on page 3, Reordered Environmental data section to page 12. The words Lync optimized on page 7.
		Removed	Environmental data duplicates pages 14-20
March 6, 2015	V3 to v4	Changed	Memory speed units on page 5.