Overview

HP Spectre Pro13 G1 Notebook PC

Front/ Left

1. Webcam LED
2. Webcam
3. Speakers (2)
4. Touchpad
5. Power button

Overview

Rear

1. USB Type-C^{TM} port
2. USB Type-C with Thunderbolt Gen 3 technology (2)

3. Headphone / microphone combo jack

Overview

At a Glance

- Window 10 versions
- Choice of the 6th generation Intel® Core i7 or i5 Processor
- Intel® HD Graphics 520
- 13.3" diagonal FHD WLED BrightView (1920 x 1080) Ultra Slim-flat UWVA Display
- Choice of 255 GB or 512 GB Solid State Drive
- 8 GB of memory
- Weight starting at 2.56 lbs (1.16 kg)
- TPM 2.0 and Windows 10 Pro security features such as Microsoft Passport, device encryption, bitlocker
- Full-size island style backlit keyboard
- Touchpad with gestures support
- HP TrueVision HD webcam
- Audio by Bang & Olufsen with 4 integrated stereo speakers
- Battery life up to TBD hours and minutes
- With Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo to keep you connected

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

Technical Specifications

PRODUCT NAMES

HP Spectre Pro13 G1 Notebook PC

OPERATING SYSTEM

Preinstalled   Windows 10 Pro 64[1]
                          Windows 10 Home 64[1]
                          Windows 10 Home Single Language 64[1]

1.   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://http://www.microsoft.com.

PROCESSORS

Intel® Core i7-6500U with Intel ® HD Graphics 520
(2.5 GHz, up to 3.1 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores)[1]
Intel® Core i5-6200U with Intel ® HD Graphics 520
(2.3 GHz, up to 2.8 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)[1]

1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. 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 with processor

GRAPHICS

Integrated
Intel® HD Graphics 520[1]

1. HD content required to view HD images.

DISPLAY

Internal
13.3" diagonal FHD WLED BrightView (1920 x 1080) Ultra Slim-flat UWVA[1]

Display Capabilities
Up to 4096 x 2304 @ 60Hz

1. HD content required to view HD images.

STORAGE AND DRIVES

QuickSpecs

Technical Specifications

Primary Storage Bay
Support M.2 SATA-3/PCIe Solid State Drives

Solid State Drives[1]
256 GB SATA-3/PCIe Solid State Drive
512 GB SATA-3/PCIe Solid State Drive

1. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved system recovery software.

MEMORY

Memory soldered down
No SODIMM slots
Dual channel support
Non customer accessible / upgradeable
LPDDR3-1866 (Transfer rates up to 1866 MT/s)

Configuration
8192 MB Total System Memory (256 MB x 32 x 4, 2pcs)

Maximum
8 GB

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)[1]
Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo

Support for Miracast
Compatible with Miracast-certified devices[2]
Support for Intel® WiDi[3]

1. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.
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. Integrated Intel Wi-Di software 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 VGA, HDMI cable, also sold separately.

AUDIO/MULTIMEDIA

QuickSpecs

Technical Specifications

Audio
Audio by Bang & Olufsen
(4) Integrated stereo speakers
Integrated dual-microphone array
HP noise cancellation
HP Audio Boost

Camera
HP TrueVision HD[1]

- Full HD camera
- Fixed (no tilt) + activity LED
- USB 2.0
- BSI sensor
- f2.4

1. HD content required to view HD images.

Webcam
HP Webcam[1]

- 720p by 30 frames per second

1. Wireless access point and Internet service is required and is not included. Availability of public wireless access

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Full-size
Island style backlit

Touchpad
Image sensor Clickpad with glass surface
Multi-touch gestures enabled
Supports modern trackpad gestures
Taps enabled as default

SOFTWARE AND SECURITY

Technical Specifications

Preinstalled Software with Windows Operating System
Buy Office
Microsoft Bitlocker
Absolute Data Protect[1]
Foxit PhantomPDF Express for HP
CyberLink Power DVD
Power Media Player 12
Intel® WiDi Software[2]
Adobe® Shockwave Player
CyberLink YouCam
HP Wireless Hotspot[4]
HP ePrint[5]

Security and Manageability
TPM 2.0
Windows 10 Security Features
HP Touchpoint Manager[3]

1. Absolute 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, che 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.
2. Integrated Intel Wi-Di software requires separately purchased projector, tv or computer monitor with an integrated external Wi-Di receiver. External Wi-Di receivers connect to the projector, tv or computer monitor via a standard VG/ HDMI cable, also sold separately.
3. HP Touchpoint Manager requires purchase of a subscription and supports Android , iOS and Windows 7 or higher operating systems and PCs, notebooks, tablets and smartphones from various manufacturers. Not available in all countries see www.hp.com/touchpoint for availability information.
4. The Wireless Hotspot application requires an active Internet connection and separately purchased data plan. Whil 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 for plan details. Requi Windows.
5. ePrint requires an Internet connection to HP web-enabled printer. HP ePrint account registration
required. For a list of eligible printers, supported documents and image types, and for complete details,
see www.hp.com/go/businessmobileprinting.

POWER

Power Supply
HP 45 W Smart USB Type-C AC adapter

Primary Battery
HP 4-cell Polymer battery (38 Whr)

Battery Life and System Standby Time
TBD

WEIGHTS & DIMENSIONS

Technical Specifications

Weight
Starting at 2.55 lbs (1.16 kg)[1]
(4-cell battery, SSD, 4G LPDDR4, Intel WLAN, SSD, Webcam)

Dimensions (w x d x h)
12.79 x 9.03 x .43 in (Thinnest edge)
32.5 x 22.94 x 1.09 cm

1. Weight varies by configuration and components.

PORTS/SLOTS

Ports
USB Type-C^{TM} ports- One (Data transfer, power delivery, Display port 1.2 out and HDMI 1.4 out through dongle)
USB Type-C with Thunderbolt Gen 3 technology – Two (Docking, charging and USB 3.1)
Headphone/microphone – One

NOTE: All ports support data transfer, power delivery, Display Port 1.2 out up to 4096x2304 (60Hz) and HDMI 1.4 out through dongle and USB Boost

Expansion slot
M.2 slot for Solid State Drive - One

SERVICE AND SUPPORT

HP Services offers 1-year limited warranty and 90 days software support 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[1,2] are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc
1. Sold separately or as an optional feature.
2. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service star on date of hardware purchase. Restrictions and limitations apply. Consult the HP Customer Support Center for details http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp

Networking/communications
TBD

Environmental

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following app
	• IT ECO declaration
	• US ENERGY STAR®
	• EPEAT <Silver> registered in the United States. See http://www.epeat.net f

System Configuration Energy Consumption (in accordance with US ENERGY STAR® test method)	The configuration used for the Energy Consumption and Declared Noise Emission **115VAC, 60Hz**
Normal Operation (Short idle)	8.65 W
Normal Operation (Long idle)	5.84 W
Sleep	0.59 W
Off	0.48 W

Technical Specifications

	Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offere specifications for computers. If a model family does not offer ENERGY STAR® co system.
Heat Dissipation*	**115VAC, 60Hz**
Normal Operation (Short idle)	30 BTU/hr
Normal Operation (Long idle)	20 BTU/hr
Sleep	2 BTU/hr
Off	2 BTU/hr *NOTE: Heat dissipation is calculated based on the measured watts, assuming th
Declared Noise Emissions **(in accordance with** **ISO 7779 and ISO 9296)**	Sound Power (L_{WAd}, bels)
Typically Configured – Idle	2.9
Fixed Disk – Random writes	3
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. 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
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
Additional Information	- This product is in compliance with the Restrictions of Hazardous Substance - This HP product is designed to comply with the Waste Electrical and Electr - This product is in compliance with California Proposition 65 (State of Califor - This product is in compliance with the IEEE 1680 (EPEAT) standard at the - Plastics parts weighing over 25 grams used in the product are marked per IS - This product contains 0% post-consumer recycled plastic (by wt.) - This product is 97.9% recycle-able when properly disposed of at end of life.
Packaging Materials	**External:**	PAPER/Corrugate

Technical Specifications

	Internal:		PLASTIC/Polyprop
			PLASTIC/EPE-Exp
	The plastic packaging material contains at least 0% recycled content.		
	The corrugated paper packaging materials contains at least 91.9% recycled conte		
Material Usage	This product does not contain any of the following substances in excess of regulat		

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardan
- 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 fr
- 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 pa
- 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 pack |

- Eliminate the use of heavy metals such as lead, chromium, mercury and ca
- Eliminate the use of ozone-depleting substances (ODS) in packaging mater
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packagin
- Use readily recyclable packaging materials such as paper and corrugated m
- Reduce size and weight of packages to improve transportation fuel efficienc
- Plastic packaging materials are marked according to ISO 11469 and DIN 61

| **End-of-life Management and Recycling** | Hewlett-Packard offers end-of-life HP product return and recycling programs in ma recovered or disposed of in a responsible manner. |

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatmen
http://www.hp.com/go/recyclers. These instructions may be used by recyclers an

| **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

Technical Specifications

Country of Origin
China

?

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

Type	Description	Part Number
Cases	HP Executive 15.6 Black Top Load	P6N18AA
	HP Executive 15.6 Brown Top Load	P6N19AA
	HP Executive 15.6 Black Slim Top Load	P6N20AA
	HP Exec 15.6 Black Messenger	P6N21AA
	HP Exec 15.6 Brown Backpack	P6N22AA
Docking	HP USB-C Travel Dock	T0K29AA#ABA
	HP Display and Notebook Stand II	E8G00AA#xxx
Input/Output	HP Slim Bluetooth Mouse	F3J92AA
	HP Conferencing Keyboard	K8P74AA#xxx
	HP Wired Headset	K7V17AA
	USB-C to USB 3.0	N2Z63AA#ABA
	USB-C to RJ45	V7W66AA#ABA
	USB-C to 4.5mm	N2Z65AA#ABA
	HP USB-C to VGA Adapter	N9K76AA#ABA
	HP USB-C to HDMI Adapter	N9K77AA#ABA
	HP USB-C to DisplayPort Adapter	N9K78AA#ABA
Power	HP 45W USB-C power adapter	V5Y26AA
Displays	HP Elite E232 Display	M1N98AA
	HP Elite E242 Display	M1P02AA
	HP Elite E272q QHD Display	M1P04AA

title

Summary of changes

Date of change:	Version History:		Description of change:
July 13, 2016	Version 1 to 2	Removed	HP Elite 65W Thunderbolt 3 Dock P5Q54AA#xxx HP Elite USB-C Docking Station T3V74AA#xxx
July 25, 2016	Version 2 to 3	Added	Environmental data