

Overview

HP Chromebook x360 11 G1 EE



Front

1. Webcam
2. Internal microphone
3. TouchPad
4. World Facing Camera with Mic (Optional)
5. Volume up/ down
6. USB 3.1 Gen 1 (charging)
7. USB Type-C™ power connector and charging port
8. Security cable slot
9. Power Button

Overview



Right

- | | |
|--|---------------------|
| 1. USB Type-C™ power connector and charging port | 3. Micro SD slot |
| 2. USB 3.1 Gen 1 (charging) | 4. Audio combo jack |

Overview

AT A GLANCE

- Flexible 360° hinge design for multimodal learning
- 19.5mm thin and rugged design for durability
- Enjoy affordable, convenient mobile productivity with Intel® Celeron® processor
- Passed MIL STD 810G tests¹
- Advanced learning style with optional dual camera system, optional active digitizer along with EMR pen for app launch²
- 29.46 cm (11.6") diagonal HD IPS (1366 x 768) Touch display with Corning® Gorilla® Glass 3
- 2 USB-C™ ports for charging, power and data transfer, and 2 USB 3.1 Gen 1 ports for sleep and charge support
- Choice of up to 8GB memory and 64GB eMMc storage.
- Enjoy Android™ Apps* on Chrome OS™³
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later
- Store up to 100 GB of your files and content with Google Drive. Your own virtual hard drive is available anywhere the Internet is accessible with this complimentary two year promotion⁴

NOTE 1: MIL STD 810G testing is pending and 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.

NOTE 2: Optional pen required and sold separately; pen requires optional digitizer feature that must be configured at time of purchase.

NOTE 3: The availability of Chrome OS System supporting Android Apps is dependent on Google's Chrome OS support, readiness timeline will be announced by Google <https://sites.google.com/a/chromium.org/dev/chromium-os/chrome-os-systems-supporting-android-apps>

NOTE 4: This offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OSTM 23 or later. Internet access is required and not included. Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website: <https://support.google.com/chromebook/answer/2703646?hl=en>

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

Summary of Changes

PRODUCT NAME

HP Chromebook x360 11 G1 EE

OPERATING SYSTEM

Preinstalled OS Chrome OS™

PROCESSOR

Intel® Celeron® processors

Intel® Celeron® N3450 with Intel® HD Graphics 500 (1.1 GHz, Single Core turbo up to 2.2 GHz, 2 MB cache, 4 cores)⁵

Intel® Celeron® N3350 with Intel® HD Graphics 500 (1.1 GHz, Single Core turbo up to 2.4 GHz, 2 MB cache, 2 cores)⁵

Processor Family

Intel® Celeron® processor

NOTE 5: 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.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® HD Graphics 500 ⁶

NOTE 6: HD content required to view HD images.

DISPLAY

Internal

29.46 cm (11.6") diagonal HD UWVA TOP Plus, direct bonded touch screen with Corning® Gorilla® Glass 3 (1366 x 768)^{7,8}

11.6" diagonal HD UWVA TOP Plus, direct bonded touch screen with Corning® Gorilla® Glass 3 (1366 x 768) with active digitize film^{7,8}

Supports

HD Decode, DX12, and HDMI⁹

Summary of Changes

NOTE 7: HD content required to view HD images.

NOTE 8: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

NOTE 9: HP EMR Pen sold separately or as an optional feature. Pen requires optional digitizer feature that must be configured at time of purchase.

NOTE 10: Cables and locks sold separately.

STORAGE AND DRIVES

Primary Storage

eMMC 5.0

16 GB

32 GB

64 GB¹⁰

NOTE 10: 5.1 GB of the eMMC are dedicated/allocated to the Chrome OSTM partition.

MEMORY

Standard

LPDDR4-2400 SDRAM (Transfer rates up to 2400MT/s)

Memory soldered down

Maximum

8 GB LPDDR4-2400 SDRAM

NETWORKING/COMMUNICATIONS

Wireless Lan (WLAN)

Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo (non-vPro™) ¹¹

Integrated Wireless options with dual antennas.

NOTE 11: Wireless access point and Internet service required and sold separately. 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; Dual speakers

Integrated microphone

Camera

720p HD webcam; Optional world-facing FHD camera (on keyboard deck)^{12,13}

NOTE 12: Internet access required

NOTE 13: World-facing FHD camera is optional

Summary of Changes

KEYBOARDS/TOUCHPAD

Keyboard

Full-sized island-style, spill resistant, pick resistant

Touchpad with multi-touch gestures enabled. Taps enabled as default; HP EMR Pen (optional)¹⁴

NOTE 14: HP EMR Pen sold separately or as an optional feature. Pen requires optional digitizer feature that must be configured at time of purchase.

SOFTWARE AND SECURITY

Preinstalled Software

Store up to 100 GB with Google Drive (2-year subscription included)¹⁵

H1 Security IC

Security lock slot - mini¹⁶

NOTE 15: Google Drive offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OSTM 23 or later. Internet access is required and not included. Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website: <https://support.google.com/chromebook/answer/2703646?hl=en>

NOTE 16: Cables and locks sold separately.

POWER

Power Supply

45 W USB Type-C™ straight type AC adapter

Primary Battery

HP Long life 2-cell, 47.36 Wh Li-ion Polymer battery¹⁷

Battery life*

Up to 11 hours and 30 minutes¹⁸

NOTE 17: Battery is internal and not replaceable by customer. Serviceable by warranty.

Charging Time

3 hours to 100% when the system is off or in suspend or deep sleep mode. Power adapter with a minimum capacity of 45 watts is required

NOTE 18: Testing conducted by HP using Google Chrome OS power_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details.

WEIGHTS & DIMENSIONS

Weight

Starting at 1.44 kg (3.17 lb) ¹⁹

Summary of Changes

NOTE 19: Weight varies by configuration and components.

Dimensions (W x D x H)

20.8 x 30.6 x 1.95 cm

8.18 x 12.04 x 0.76 in

PORTS/SLOTS

Ports/Connectors

2 USB 3.1 Type-C™

2 USB 3.1 Gen 1 (Sleep and Charge support)

1 headphone/microphone combo jack

Slots

1 micro SD (multi-format digital media reader)

Supports SD, SDHC, SDXC

SERVICE AND SUPPORT

HP Services offers a 1-year limited warranties and 90 day support options depending on country. Batteries have a default one year limited warranty. 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>.²⁰

NOTE 20: HP Care Packs are sold separately. 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 www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

CERTIFICATION AND COMPLIANCE

ENERGY STAR® certified; EPEAT® Silver21

NOTE 21: EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.n> registration status by country.

DISPLAYS

Outline Dimensions (W x H x D)	299.7 x 194.39 x 4.2 mm(max)
Active Area	256.125 x 144.0

Summary of Changes

Panel 11.6" HD UWVA TOP touch screen with Corning® Gorilla® Glass	Weight	320g max.		
	Diagonal Size	11.6"		
	Surface Treatment	BV		
	Contrast Ratio	800:1		
	Refresh Rate	60Hz		
	Brightness	220 nit typ.		
	Pixel Resolution	Format	1366 x 768 (HD)	
		Configuration	RGB	
	Interface	eDP 1.2		
	LCD Mode	IPS		
Viewing Angle	UWVA 85/85/85/85			

NETWORKING*

Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo (non-vPro™)

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n
	<ul style="list-style-type: none"> • 2.402 – 2.482 GHz
	802.11a/n
	<ul style="list-style-type: none"> • 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 • 2.402 – 2.482 GHz
Data Rates	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Summary of Changes

Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-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
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power²	<ul style="list-style-type: none"> • 802.11b : +16dBm minimum • 802.11g : +14dBm minimum • 802.11a : +14dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum • 802.11n HT40(5GHz) : +12dBm minimum
Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 5 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity³	802.11b, 1Mbps : -94dBm maximum 802.11b, 11Mbps : -86dBm maximum 802.11g, 6Mbps : -88dBm maximum 802.11g, 54Mbps : -74dBm maximum 802.11a, 6Mbps : -88dBm maximum

Summary of Changes

	802.11a, 54Mbps : -74dBm maximum
	802.11n, MCS07 : -69dBm maximum
	802.11n, MCS15 : -66dBm maximum
	802.11ac, 1SS, MCS-0 : -86dBm maximum
	802.11ac, 1SS, MCS-9 : -61dBm maximum
	802.11ac, 2SS, MCS-0 : -83dBm maximum
	802.11ac, 2SS, MCS-9 : -58dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	2.3 x 22.0 x 30.0 mm
Weight	2.8g
Operating Voltage	3.3v +/- 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)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON

1. [Check latest software/driver release for updates on supported security features.](#)
2. [Maximum output power may vary by country according to local regulations.](#)
3. [Receiver sensitivity is measured at a packet error rate of 8% for 802.11b \(CKK modulation\) and a packet error rate of 10% for 802.11a/g \(OFDM modulation\).](#)

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

Bluetooth Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy : 0~79 (1 MHz/CH)

Summary of Changes

	BLE : 0~39 (2 MHz/CH)												
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps												
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps												
	Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels												
	Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)												
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.												
Receiver Sensitivity													
Legacy	<table border="1"> <thead> <tr> <th>Modulation</th> <th>0.01% BER</th> <th>0.001% BER</th> </tr> </thead> <tbody> <tr> <td>GFSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> <tr> <td>$\pi/4$-DQPSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> <tr> <td>8DPSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> </tbody> </table>	Modulation	0.01% BER	0.001% BER	GFSK	-80 dBm	-70 dBm	$\pi/4$ -DQPSK	-80 dBm	-70 dBm	8DPSK	-80 dBm	-70 dBm
Modulation	0.01% BER	0.001% BER											
GFSK	-80 dBm	-70 dBm											
$\pi/4$ -DQPSK	-80 dBm	-70 dBm											
8DPSK	-80 dBm	-70 dBm											
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW												
Range	Legacy Up to 33 ft (10 m) BLE Up to 99 ft (30 m)												
Electrical Interface	USB 2.0 compliant												
Bluetooth Software Supported	Dependent on OS												
Link Topology													
Electrical Interface	Point to Point, Multipoint Pico Nets up to 7 slaves												
Bluetooth Software Supported	Full support of Bluetooth Security Provisions												
Security													
Power Management	Dependent on OS												
Certifications	Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff												
Security	All necessary regulatory approvals for supported countries, including:												
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249												

Summary of Changes

Power Management

ETS 300 328, ETS 300 826

POWER

HP 45W USB-C AC Adapter

Dimensions (H x W x D)	94.0 x 40.0 x 26.5 mm
Weight	192.5g +/-10%
Input	90 to 265 VAC
Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 78.71% 12V : 87.41% 15V : 87.73%
Input frequency range	47 to 63 Hz
Input AC current	Max. 1.4 A at 90 VAC
Output	Output power 5V/10W 12V/36W 15V/45W
DC output	5V / 12V / 15V
Hold-up time	5 msec at 115 VAC input
Output current limit	<5.0A
Connector	USB Type-C
Environmental Design	Operating temperature 32° to 95° F (0° to 35° C) Non-operating (storage) temperature -4° to 185° F (-20° to 85° C) Altitude 0 to 16,400 ft (0 to 5,000 m) Humidity 20% to 95% Storage Humidity 10% to 95%
EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class 1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

HP 2-cell Long Life 47 Wh Li-ion

Dimensions	240.80x76.40x5.33mm
Weight	200g +/- 10g
Input	90 to 265 VAC
Cells/Type	2cell Lithium-Ion Polymer cell/ ATL4473A9,6.15Ah/COSLIGHT4473A9,6.15Ah
Voltage	7.7V
Amp-hour capacity	6150mAh



Summary of Changes

Watt-hour capacity	47.3Wh
Operating (Charging)	0~45°C
Operating (Discharging)	-10~60°C
Fuel Gauge LED	No
Warranty	1000 cycles>65%(at 23°C)
Optional Travel Battery Available	No

ENVIRONMENTAL

Eco-Label Certifications & declarations This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT® Silver registered in the United States. See <http://www.epeat.net> for registration status in your country.

System Configuration The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.

Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 50Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	6.31 W	6.43 W	6.28 W
Normal Operation (Long idle)	2.90 W	3.01 W	2.81 W
Sleep	0.73 W	0.78 W	0.73 W
Off	0.41 W	0.46 W	0.40 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.

Summary of Changes

Heat Dissipation*	115VAC, 50Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	22 BTU/hr	22 BTU/hr	21 BTU/hr
Normal Operation (Long idle)	10 BTU/hr	10 BTU/hr	10 BTU/hr
Sleep	2 BTU/hr	3 BTU/hr	2 BTU/hr
Off	1 BTU/hr	2 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)
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Typically Configured – Idle 16.1

Fixed Disk – Random writes

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

- 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% post-consumer recycled plastic (by wt.)
 - This product is 95.0% recycle-able when properly disposed of at end of life.

Packaging Materials	External:	Internal:	
	PAPER/Corrugated		360 g
		PLASTIC/Expanded Polyethylene - EPE	14.4 g
		PLASTIC/Polyethylene low density - LDPE	11 g



Summary of Changes

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

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.

Summary of Changes

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.

HP, Inc. 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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842>

and

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

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