## **Overview**

### HP ProBook x360 11 G2 EE Notebook PC



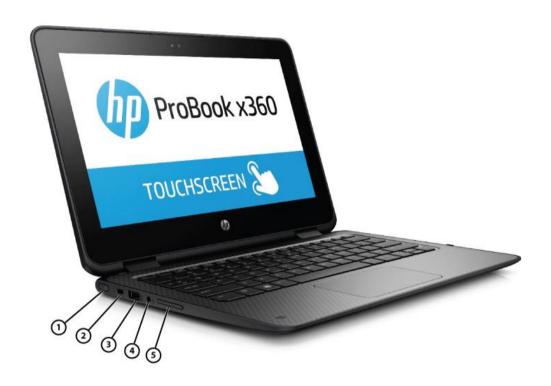
## **Front Right**

- 1. WLAN antennas (2)
- 2. Internal microphones (2)
- 3. User-facing webcam LED
- 4. User-facing 720p webcam
- 5. Power connector
- 6. Ethernet (RJ-45) port
- HDMI v1.4b

- 8. USB 3.1 Gen 1 port
- 9. USB Type-C<sup>™</sup> (Data only)
- 10. Micro SD card reader
- 11. ClickPad
- 12. World-facing 1080p webcam (select models only)
- 13. World-facing webcam LED (select models only)



## Overview



#### **Front Left**

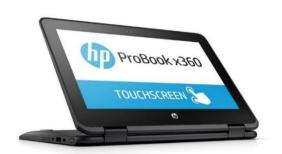
- 1. Power button
- 2. Security lock slot
- 3. USB 3.1 Gen 1 Port

- 4. Headphone / Microphone Combo Jack
- 5. Volume button



# Overview

### **Stand Mode**



**Tablet Mode** 



**Tent Mode** 





## Overview

## **AT A GLANCE**

- Weight starting at TBD lbs (TBD kg) and 20.8 cm (8.19 in) thin
- This flexible 360° hinge converts to laptop, tablet, tent, or stand mode easily
- Passed the MIL-STD 810G testing<sup>1</sup> with rugged features such as co-molded rubber trim, and spill- and pick-resistant keyboard
- · Optional dual camera system for project-based learning
- Optional HP Active Pen provides an authentic digital inking experience
- Pre-installed with Windows 10 Pro 64 or Windows 10 Home 64
- Powered by 7th Generation Intel® processors
- 29.46 cm (11.6") diagonal HD SVA eDP LED slim touch screen
- Up to 256 GB SATA-3 Solid State Drive storage options
- Up to 8 GB system memory for enhanced memory management
- Reliable connectivity with Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo WLAN for learning and collaboration beyond the classroom
- Built-in ports include: Ethernet (RJ-45), USB 3.1 Gen 1, USB Type-C™ (Data only), and HDMI 1.4b port for connecting to high-resolution displays
- Enhanced security TPM 2.0 discrete chip
- Battery life up to 13 hours

1. MIL STD 810G 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: See important legal disclosures for all listed specs in their respective features sections.



### **Features**

#### **PRODUCT NAME**

HP ProBook x360 11 G2 EE Notebook PC

### **OPERATING SYSTEM**

**Preinstalled** Windows 10 Pro 64<sup>1</sup>

Windows 10 Home 64<sup>1</sup>

Windows 10 Pro (National Academic License)<sup>2</sup> Windows 10 Home Single Language 64<sup>1</sup>

**Web supported** Windows 10 Enterprise 64<sup>1</sup>

- 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://www.windows.com.
- 2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information

#### **PROCESSORS**

#### **Processors**

Intel® Core™ M3-7Y30 with Intel® Graphics 615 (1 GHz, up to 2.6 GHz, 4 MB cache, 2 cores)¹ Intel® Core™ i5-7Y54 with Intel® Graphics 615 (1.2 GHz, up to 3.2 GHz, 4 MB cache, 2 cores)¹

#### **Processor Family**

7<sup>th</sup> Generation Intel® Core™ M3 processor (M3-7Y30 model) 7<sup>th</sup> Generation Intel® Core™ i5 processor (i5-7Y54 model)

**NOTE:** In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

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.

## **CHIPSET**

Chipset is integrated with processor

### **GRAPHICS**

#### Integrated

Intel® HD Graphics 6151

1. HD content required to view HD images.



## **Features**

### **DISPLAY**

#### Internal

29.46 cm (11.6") diagonal HD SVA eDP LED slim touch screen with user-facing camera (1366 x 768)1

#### **External**

Up to 32-bit per pixel color depth

HDMI v1.4b supporting: up to 3840 x 2160 @ 30 Hz

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

- 1. HD content required to view HD images.
- 2. HDMI cable sold separately.

#### STORAGE AND DRIVES

#### Primary Storage<sup>1</sup> M.2 (NGFF) 2280 Solid State Drive

128 GB SATA-3 SS TLC Solid State Drive<sup>2</sup> 256 GB SATA-3 SS TLC Solid State Drive<sup>2</sup>

- 1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
- 2. Not available with eMMC storage.

#### **MEMORY**

#### Standard

LPDDR3-1866 (Transfer rates up to 1866 MT/s) Supports up to 8 GB max on-board (Not Customer Accessible) **Supports Dual Channel memory** 

#### **Configurations**

4096 MB Total System Memory (8 GB 128 M x 32 x 2, Qty 4) 8192 MB Total System Memory (16 GB 256 M x 16 x 4, Qty 4)

### **Maximum Memory**

8 GB

## **NETWORKING/COMMUNICATIONS**

#### Wireless1

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

#### **Communications**

Realtek Ethernet (10/100/1000) GbE NIC<sup>2</sup>

1. Wireless access point and Internet service is required and is not included.



## **Features**

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.

2. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

## **AUDIO/MULTIMEDIA**

#### Audio

HP Audio Two integrated stereo speaker Headphone / microphone in combo jack

#### Webcam<sup>1</sup>

User Facing Camera 1 MP HD Webcam @ 1280 x 720p<sup>2</sup> Located on display Dual digital mic

#### **World Facing Camera**

2 MP FHD Webcam @ 1920 x1080p<sup>2</sup>
Located on keyboard deck (option only available with touch display configurations)

NOTE: Both webcams are fix focus.

- 1. Internet access required.
- 2. HD content required to view HD images.

## **KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS/PEN**

#### Keyboard

Full-sized, minor spill and pick-resistant

#### **Function Keys**

- F1 Blank
- F2 Clickpad Enable/Disable
- F3 Sleep
- F4 Display Switching
- F5 Audio Mute/Unmute
- F6 Volume <down>
- F7 Volume <up>
- F8 Mic Mute/Unmute
- F9 Brightness <down>
- F10 Brightness <up>
- F11 Blank
- F12 Wireless On/Off

#### ClickPad

Multitouch gestures enabled Default on: 2-finger scroll, pinch Support Windows 10 modern Trackpad gestures



## **Features**

Taps enabled as default

#### Pen

Optional HP Active Pen 1

1. Sold separately or as an optional feature.

## **SOFTWARE AND SECURITY**

#### BIOS

HP BIOSphere Gen3<sup>1</sup>
HP DriveLock | HP Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Secure Erase<sup>2</sup>

Absolute Persistence Module<sup>3</sup>

Pre-boot Authentication

#### **HP Value Add Software**

HP ePrint Driver + JetAdvantage<sup>4</sup>
HP Hotkey Support - CMIT
HP Recovery Manager
HP Jumpstart

in sampstart

**HP Support Assistant** 

**HP Noise Cancellation Software** 

#### **Microsoft Products**

Buy Office Bing Search Skype<sup>5</sup>

## Manageability

HP System Software Manager (SSM)<sup>6</sup> HP BIOS Config Utility (BCU)<sup>6</sup> LANDESK Management<sup>7</sup>

For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement.

## **HP School Pack**

- HP Adaptive Learning created by Fishtree
- HP Simple Sign-on created by Classlink
- HP Classroom Manager Student Edition<sup>10</sup>
- SparkVue
- Codecademy
- Corinth Classroom



## **Features**

- HP Prime Graphing Calculator
- Curriculum Matrix/CMX
- Oxford University Press Advanced Learners English Dictionary

#### Security

Trusted Platform Module (TPM) 2.0

- 1. Available only on business PCs with HP BIOS.
- 2. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
- 3. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <a href="http://www.absolute.com/company/legal/agreements/computrace-agreement">http://www.absolute.com/company/legal/agreements/computrace-agreement</a>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 4. 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 <a href="http://www.hp.com/go/eprintcenter">http://www.hp.com/go/eprintcenter</a>). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- 5. Skype is not offered in China.
- 6. Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement
- 8. Subscription required.

10. HP Classroom Manager for Teachers is required and sold separately for control and device locking from the teacher's Windows desktop console; no locking and control functionality originates from HP Classroom Manager for Student. Control and device locking originate from the teacher's Windows desktop console.

#### **POWER**

#### Power Supply<sup>1</sup>

HP 45W Smart AC adapter HP 65W EM Smart AC adapter

#### **Primary Battery**

HP Long Life 3-cell, 41 Whr Li-Ion Prismatic battery

#### **Power Cord**

Power cord is 3.2 feet (1 meter)

#### Battery life<sup>2</sup>

Up to 13 hours

**NOTE:** Battery is internal and not replaceable by customer.

**Charging Time:** 90 mins to 90% when the system is off or in standby mode. Power adapter with a minimum capacity of 45 watts is required

### System Standby Time<sup>3</sup>

TBD

1. Availability may vary by country.



## **Features**

- 2. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.
- 3. Talk, standby, and usage times are approximate and depend on the network configuration, the usage pattern of an individual user, and the configuration of the handheld. Use of some internal wireless capabilities, backlight will significantly decrease battery run time

### **WEIGHTS & DIMENSIONS**

Weight Touch

Starting at 3.19 lbs (1.45 kg)

**Dimensions** (w x d x h) 20.7 x 30.24 x 1.99 cm 8.14 x 11.88 x 0.78 in

**NOTE:** Weight varies by configuration and components.

## **PORTS/SLOTS**

#### **Ports**

1 USB 3.1 Type-C<sup>™</sup> (Data transfer only) 2 USB 3.1 Gen 1 1 AC power connector 1 HDMI 1 RJ-45

1 Headphone/microphone combo jack

**HP Multi-Format Digital Media Reader**Support micro SD/SDHC/SDXC up to UHS-104

**NOTE:** All cables are sold separately.

#### **SYSTEM UNIT**

Temperature	Operating	41° to 95° F (5° 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%, non-condensing



## HP ProBook x360 11 G1 EE Notebook PC

# QuickSpecs

**Features** 



# **Technical Specifications**

### **SERVICE AND SUPPORT**

HP Services offers a 1-year limited warranties and 90 day software 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<sup>1</sup> 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.

 HP Services offers 3-year and 1-year limited warranties and 90 day software 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.

## **DISPLAYS**

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

29.4 cm (11.6") diagonal HD SVA slim LED touch screen (1366 x 768)	Outline Dimensions	278.5 x 168.5 (mm) max	
	Active Area	256.13 x 144.0 (mm)	
	Weight	360 g max	
	Diagonal Size	11.6 (inch)	
	Contrast Ratio	300:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	220 nits	
	Pixel Resolution	Format	1366 x 768 (HD)
	· inci ilegotation	Configuration	RGB
	Interface	eDP 1.2	
	PPI	135 ррі	
	Backlight	LED	

**Color Gamut Coverage** 



45%

Color depth 6 bit

Viewing Angle SVA 45/45/25/35

**Touch Point Supported** 10-point multi-touch

Pen Enabled Yes

## STORAGE AND DRIVES

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

128 GB SATA-3 Solid
State Drive TLC

**Drive Weight** 10 grams

Capacity 128 GB

**Height** 0.09 in (2.3 mm)



**Width** 0.87 in (22 mm)

Interface ATA-8, SATA 3.0

Performance Sequential Read Sequential Write

Between 520 MB/s and 530 MB/s Between 380 MB/s and 500 MB/s

**Logical Blocks** 250,069,680

**Operating Temperature** 32° to 158°F (0° to 70°C) [case temp]

Features ATA Security; ATA-8; SATA 3.0; DIPM; TRIM; DVESLP

256 GB SATA-3 Solid State Drive TLC

**Drive Weight** 10 grams

Capacity 256 GB

**Height** 0.09 in (2.3 mm)

**Width** 0.87 in (22 mm)

Interface ATA-8, SATA 3.0

Performance Sequential Read Sequential Write

Up to 515 MB/s Up to 490 MB/s

**Logical Blocks** 500,118,192

**Operating Temperature** 32° to 158°F (0° to 70°C) [case temp]

Features ATA Security; ATA-8; SATA 3.0; DIPM; TRIM; DVESLP

## **NETWORKING/COMMUNICATIONS**

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

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b
IEEE 802.11g



IEEE 802.11n

IEEE 802.11ac

**Interoperability** Wi-Fi certified

Frequency Band 802.11b/g/n

2.402 – 2.482 GHz

Note:

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

#### 802.11a/n

- 4.9 4.95 GHz (Japan)
- 5.15 5.25 GHz
- 5.25 5.35 GHz
- 5.47 5.725 GHz
- 5.825 5.850 GHz

Note: Indonesia no support this band)

#### **Data Rates**

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

#### Modulation

Direct Sequence Spread Spectrum

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

#### Security<sup>1</sup>

- 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** 

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points



Output Power<sup>2</sup> • 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 Sensitivity**<sup>3</sup> 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

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** Type 2230 : 2.3 x 22.0 x 30.0 mm

0r

Type 1630: 2.3 x 16.0 x 30.0 mm

**Weight** Type 2230 : 2.8q

0r

Type 1630: 2g

Operating Voltage 3.3v +/- 9%

**Temperature** Operating 14° to 158° F (–10° to 70° C)

Non-operating  $-40^{\circ}$  to  $176^{\circ}$  F ( $-40^{\circ}$  to  $80^{\circ}$  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

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)

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



# **Technical Specifications**

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

Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/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** Microsoft Windows Bluetooth Software

**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** Microsoft Windows ACPI, and USB Bus Support

**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

**Bluetooth Profiles Supported** 

**Power Management** ETS 300 328, ETS 300 826



**Certifications** Low Voltage Directive IEC950

UL, CSA, and CE Mark

Serial Port Profile (SPP)1.2

Service Discovery Application Profile (SDAP)

Dial-Up Networking (DUN)1,1

Generic Object Exchange Profile (GOEP)1,2

Object Push Profile (OPP)1,2

Certifications

Hard Copy Cable Replacement (HCRP)<sup>1,2</sup>

**Bluetooth Profiles Supported**Personal Area Networking Profile (PAN)<sup>1.0</sup>
Human Interface Device Profile (HID)<sup>1.0</sup>

Hands Free Profile (HFP) 1.5/1.6

Advanced Audio Distribution Profile (A2DP) 1.3

Audio Video Remote Control Profile (AVRCP) 1.3/1.4

Bluetooth V4.1/V4.2 support

feature

V4.1: ESR5/6/7 compliant

V4.2: ESR8 compliant, LE Secure Connection – Basic.

## AUDIO/MULTIMEDIA

Hardware Implementation

**Function Key Volume** 

Controls
Full Duplex
Microphone In

Headphone/Line Out
Integrated Microphone

Audio Output Quality Frequency Response

**Signal to Noise Ratio** 



Total Harmonic Distortion Noise Floor

**Play/Record Sampling** 

Rate(s)
DAC
ADC

Integrated Stereo Speakers Power Rating Impedance

**POWER** 

**HP 45 Watt Smart Dimensions** (H x W x D) 95x40x26.5mm

AC adapter Weight 200g +/- 10g

Input

Input Efficiency 87.74 % at 115 Vac and 88.4 % at 230 Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current protection <8.0A

**Connector** C6 (3pin/with grounded, with Smart ID DC connector)

**Environmental Design** Operating 320F to 950F (0oto 350C)

temperature

Non-operating (storage) -4oF to 185oF (-20oto 85oC)

temperature

**Altitude** 0 to 16,400 ft (0 to 5000m)

**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, Class1, 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 65W EM Smart AC** Adapter

**Dimensions** (H x W x D)

127.0x51.0x30.0mm

Weight

350g +/- 10q

Input

**Input Efficiency** 

88.0 % at 115 Vac and 89.0 % at 230Vac

Input frequency range

47 ~ 63 Hz

Input AC current

Max. 1.7 A at 90 Vac

Output

Output power

65W

DC output

19.5V

Hold-up time

5ms at 115 Vac input

Output current protection <11.0A

Connector

C6 (3pin/with grounded, with Smart ID DC connector)

**Environmental Design** 

**Operating** 

32oF to 95oF (0oto 35oC)

temperature

Non-operating (storage) -4oF to 185oF (-20oto 85oC)

temperature

**Altitude** 0 to 16,400 ft (0 to 5000m)

**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, Class1, 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 3-cell Li-Ion Prismatic Battery (41 WHr) Cells/Type 3-cell Prismatic

Watt-hour capacity 41WHr

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

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

Non-operating  $-4^{\circ}$  to  $140^{\circ}$  F (-20° to  $60^{\circ}$  C)

Warranty 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

**NOTE:** 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.

### **ENVIRONMENTAL**

**TBD** 

## **COUNTRY OF ORIGIN**

China



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

Туре	Description	Part Number
Carrying Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Slim Top Load	F3W15AA
	HP Slim Backpack	F3W16AA
Docking	HP USBC Travel Dock	T0K29AA
	HP Elite USBC Dock	X7W54AA#xxx
	HP 3005pr USB3 Port Replicator	Y4H06AA
Input/Output	HP Slim USB Keyboard & Mouse Bundle	T6T83AA#xxx
	HP 3-Button Laser Mouse	H4B81AA#xxx
	HP 2.4GHz Wireless Mouse	LOZ84AA#xxx
	HP Slim Wireless keyboard and mouse	T6L04AA#xxx
	HP HDMI to VGA Adapter	H4F02AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
Pen	HP Active Pen with Spare Tips PN	1FH00AA#xxx
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
	HP 65W Smart AC Adapter	H6Y89AA#xxx
	HP Notebook Powerbank	N9F71AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Keyed Cable Lock 10mm	T1A62AA
Monitors	HP S140u 14-inch USB Portable Monitor	G8R65AA
	HP ProDisplay P240va 23.8-inch Monitor	N3H14AA
	HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50AA



# **Summary of Changes**

Date of change	Version History	Description of change
April 13, 2017	V1	Quickspec Launched
April 20, 2017	V1 to V2	At a glance section updated, Battery life and Weight updated
April 26, 2017	V2 to V3	Processor Section updated (i5 coming soon note removed)

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## HP ProBook x360 11 G2 EE Notebook PC

# QuickSpecs

**Summary of Changes** 

