

Overview

HP Pro 8 Advanced Rugged Tablet with Voice

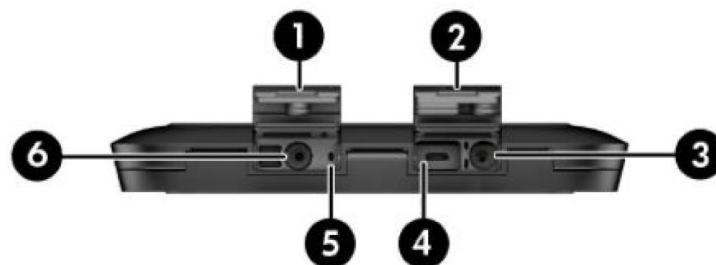


- | | |
|---|---|
| 1. Power port cover, covers these ports:
Power connector
Microphone(s) | 6. Volume button |
| 2. USB port cover, covers these ports:
Micro-B USB port
3.5mm combo headset / microphone jack | 7. Power button |
| 3. Power and Battery LED | 8. Micro SIM card/MicroSD memory card cover
Covers Micro SIM card/MicroSD memory card tray |
| 4. Camera | 9. Microphone |
| 5. IP65 Tested Rugged Cover Case | 10. Speaker. |
| | 11. Fingerprint Reader |
| | 12. Iris Scanner |

Overview



- | | |
|------------------|--|
| 1. WLAN antenna | 5. Barcode Scanner |
| 2. Camera | 6. Barcode Scanner's Activation Button |
| 3. Camera flash | 7. Barcode Beep Speaker |
| 4. WWAN antennas | 8. Strap access holes |



- | | |
|--|---------------------|
| 1. Power Port Cover Recess | 4. Micro-B USB port |
| 2. USB Port Cover Recess | 5. Microphone(s) |
| 3. 3.5mm combo headset/microphone jack | 6. Power connector |

Overview

AT A GLANCE

- Expand productivity in harsh conditions with the IP65 tested* device, a sturdy, drop-tested** solution that supports configurable biometric and scanning modules***
- Outdoor readability, high temperature endurance, and a long battery life
- Security features include configurable fingerprint reader & Iris scanner for secure authentication
- Allows for barcode scanning supporting multiple decode symbologies
- Android™ Marshmallow 6.0
- Mediatek MT8735V/W Quad Core (Cortex-A53), 1.3 GHz
- 8-inch diagonal (800 x 1280) wide viewing angle Outdoor IPS display with 10 point capacitive touch; 188 Pixels Per Inch 16:10 aspect ratio, 16.7M color
- 2 GB LPDDR3
- 16 GB embedded Multi Media Card (eMMC)
- Micro SD Card Slot supported, expandable up to 128 GB
- 802.11 b/g/n 2.4GHz Miracast compatible
- Bluetooth® 4.0 + LE connectivity
- 4G/LTE: (GSM 850/900/1800/1900, WCDMA B1&B8, LTE (Band 3 & 40))
- IP65 tested* for protection against dust ingress and water jets from any direction
- Durable solution, designed and tested for drops from up to 4 feet**

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

* IP 65 test results are not a guarantee of future performance under these test conditions. Damage under the test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack

** Drop Tested by HP from 4 feet on 6 faces & 4 corners onto a steel and concrete floor. HP drop test results are not a guarantee of future performance under these test conditions. Damage under the test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack

* Modules require configuration at time of purchase. Refer to configurations section for available configurations

Technical Specifications

PRODUCT NAME

HP Pro 8 Advanced Rugged Tablet with Voice

OPERATING SYSTEM

Android™ Marshmallow 6.0*

*This product has Android™ 6.0 Marshmallow Operating System pre-installed. Upgrade to Android™ Nougat expected by March 2018.

PROCESSOR

MediaTek MT8735 V/W ARM Cortex™ A processor

Quad Core* 1.3GHz

Embedded GPU Mali T720MP2 450Mhz

* 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. Model numbering is not a measurement of clock speed

DISPLAY

8-inch diagonal capacitive multi-touch, wide viewing angle Outdoor IPS display

Size	8" diagonal
Resolution	800 x1280
Brightness	Typical 500 nits (cd/m ²)
Color depth	16.7 M
Pixels Per Inch	188 PPI
Aspect Ratio	16:10 Aspect Ratio (orientation agnostic)
Multitouch	Yes, 10 point capacitive
Bonding	Air bonding

Technical Specifications

INTERNAL STORAGE

Internal Storage Device

16 GB embedded Multi Media Card (eMMC)* (Base SKU)

Micro SD Card Slot

Supports microSD Cards up to 128 GB**

SD and SDHC formats supported

* For storage, GB = 1 billion bytes. Actual formatted capacity is less. Up to 7GB of system disk is reserved for system recovery software.

** microSD card must be formatted in FAT32 format before use. Maximum individual file size supported for read/write to the card is 4 GB. microSD Card sold separately.

MEMORY

Standard

2 GB LPDDR3-666 MHz

Transfer rates up to 1333 MT/s

Onboard memory not customer accessible/upgradeable

NETWORKING/COMMUNICATIONS

Wi-Fi

802.11 b/g/n (2.4 GHz)*

Miracast compatible**

Integrated GPS supports A-GPS, GLONASS, Geo Tagging

WWAN

4G/LTE***

GSM/GPRS/Edge	850/900/1800/1900MHz
UMTS/WCDMA	B1/B8 (UMTS2100/UMTS900)
LTE	B3/B40
Speed	LTE Cat4

Bluetooth®

Bluetooth® 4.0 + LE connectivity



Technical Specifications

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

**Miracast technology only works with other Miracast ready devices. High definition (HD) content is required to view high-definition images. For details see <http://wi-fi.org/miracast>.

*** WWAN requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors.

AUDIO/MULTIMEDIA

Audio

Single 1.2 W Internal Speaker

2 Integrated audio Microphones

3.5 mm Combo headphone/microphone jack (wired headset included)

Cameras

Front Camera: 2MP, Fixed Focus 640 x 480 video recording at 30 fps, Low light capable

Rear Camera: 5MP, Auto Focus, HDR (High Dynamic Range), Low light capable, and Full HD* video playback & recording

* Full HD content required for Full HD video playback.

SENSORS

Ambient Light Sensor

Accelerometer

Gyroscope

GPS, A-GPS, GLONASS, Geo Tagging

Hall Sensor

SOFTWARE

Android™ 6.0 Marshmallow

(This product has Android™ 6.0 Marshmallow Operating System pre-installed. Upgrade to Android™ Nougat expected by March 2018.)

Google Mobile Services and Applications

22 Indian regional languages supported*

Trigger an emergency call with panic button by pressing the power button three times in rapid succession**

HP Device Hub

Technical Specifications

HP User Guides

File Manager

Biometric and Bar-code scanner SDK support for Android

* Device supports text input in the following languages: Assamese, Bengali, English, Gujarati, Hindi, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, and Telugu.

Device supports rendering and display of the following languages: Assamese, Bengali, English, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santali, Maithili, Dogri

** Emergency call connectivity depends on network signals and connection to emergency services number defined in the area from your network operator. Caution: The emergency call may accidentally be triggered when repeatedly pressing the power button, pay attention to not accidentally trigger the panic button

SECURITY

ARM® TrustZone® (trusted execution environment)

Fingerprint Reader for Biometric authentication

Iris Scanner for Biometric authentication

POWER

Power Supply

27W 9V 3A Charging AC Adapter

Barrel type plug

Cable length 1.5m

Battery

6000 mAh Li-ion Polymer, 22.8Whr

Battery Life

Standby*	Up to 400 hours
Video Playback**	Up to 15 hours
Browsing***	Up to 8.5 hours
Talking****	Up to 20.5 hours
With modules*****	Up to 8 hours 54 minutes
Charging Time	3 hours 43 minutes



Technical Specifications

* Tested by HP with WLAN and WWAN connected, display, volume, GPS and ambient light sensor off. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

** Tested by HP using continuous 720p video playback, 150 nits brightness, system audio level at 50%, played from external storage, headphone attached, airplane mode on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

*** Tested by HP using Wi-Fi for browsing, with maximum brightness, system audio level at 50% and WWAN connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

**** Tested by HP with maximum volume using speaker for audio, WLAN and WWAN connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

***** Tested by HP with display on at 150 nits brightness, system audio level at 50%, and in airplane mode on with mixed usage of the fingerprint reader, iris scanner, and barcode scanner. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

WEIGHT & DIMENSIONS

Weight

958 grams (2.1 lb) *

Dimensions (w x d x h)

231.5 x 187.5 x 24.5 mm (9.11 x 7.36 x 0.96 in) *

* Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

PORTS/SLOTS

Ports

- 1 Micro USB 2.0 Support OTG*
- 1 3.5 mm Combo headphone/microphone jack (wired headset included)
- 1 Barrel type plug charging port
- 1 Micro SIM card slot

Expansion Slots

- 1 MicroSD card slot**

* USB does not support charging.

** Up to 128 GB of expandable storage. MicroSD card must be formatted in FAT32 format before use. Maximum individual file size supported for read/write to the card is 4 GB. MicroSD card sold separately.

Technical Specifications

CONFIGURATIONS

Available Configurations

SKU 1: 2CE58AA#ACJ	Fingerprint Reader only
SKU 2: 2CE59AA#ACJ	Barcode Scanner only
SKU 3: 2CE60AA#ACJ	Fingerprint Reader, Iris Scanner
SKU 4: 2CE61AA#ACJ	Fingerprint Reader, Iris Scanner, Barcode Scanner

Fingerprint Reader

General	Support for converting from/to TouchChip templates to/from ANSI-378 or ISO 19794-2 formats 0001, 001C and 0006 templates
Supported formats	USB: 508/508/8, 381/381/8, 381/381/bin USB Secure Mode: 508/508/8, 381/381/8, 381/381/bin
Array Size	256 x 360 pixels
Imaging Area	18.00mm x 12.80mm
Image Resolution	508 DPI
Power Consumption	Sleep Mode: 1350 uA @ 3.3 V Imaging Mode: 80 mA @ 3.3 V
Wake-up time	<15 ms (Sleep to imaging)
Applications	Government and Mobile ID terminals USB peripherals and POS terminals Access Control and other embedded devices
On-board NVM storage life	On-board NVM storage for up to 100 templates More than 100,000 erase/write cycles More than 20 years data retention

Iris Scanner

False accept rate	FAR: 1 in 100000
False reject rate	FRR: 0.018776 @ FAR 1e-6
Model Name	IriShield™-USB M0 2120
Absolute required voltage	Min: 3.4V Max: 6V
Maximum Power Management	Fully Operating 250mA Deep Sleep Mode 20MA
Sensor & Image resolution	640 x 480 pixels
Focal Distance	4.7 cm ~ 5.3 cm from image sensor
Optimal Distance	5 cm from image sensor

Technical Specifications

Compliance Eye safety(IEC 62471: 2006-07)

Barcode Scanner

Sensor CMOS Sensor with rolling shutter

Pixel Resolution 640 x 480

Frames per Second 30 FPS

Aiming Wavelength 640 nm visible Hyper Red LED

Light Source White LED with CCT 5000K

USB Interface Keyboard

COM Port Emulation

HIDPOS

IBM SurePOS

Trigger Modes Manual/Serial Mode

Low Power Manual Trigger Mode

Presentation Mode

Status Indicators Good Read LED

Beeper

Power Down

Depth of Field Typical Specifications	Near Distance	Far Distance	Depth of Field
5 mil Code 39	61	130	69
20 mil Code 39	60	380	320
13 mil UPC (100% UPC)	55	280	255
6.7 mil PDF417	60	125	65
10 mil Data Matrix	60	130	70
20 mil QR	50	230	180

Field of View / Resolution Horizontal Field Angle ±18.9 degrees

Horizontal Field Angle ±14.4 degrees

LED safety Classified as “Low risk group” @ IEC 62471:2006.

Factory default barcodes Aztec Code, China Post (Hong Kong 2 or 5), Chinese Sensible (Han Xin) Code, Codabar, Codablock A, Codablock F, Code 11, Code 128, Code 32 Pharmaceutical (PARAF), Code 39, Code 93, Data Matrix, EAN/JAN-13, EAN/JAN-8, GS1 Composite Codes, GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 Emulation, GS1-128, Interleaved 2 of 5, Korea Post, Matrix 2 or 5, MaxiCode, MicroPDF417, MSI, NEC 2 of 5, Postal Codes – 2D, Postal Codes – Linear, PDF417, GS1 DataBar Omnidirectional, QR Code, Straight

Technical Specifications

2 of 5 IATA (two-bar start/stop), Straight 2 of 5 Industrial (three-bar start/stop), TCIF Linked Code 39 (TLC39), UPC-A, UPC-A/EAN-13 with Extended Coupon Code, UPC-E0, UPC-E1

Technical Specifications

IN THE BOX

- HP Pro 8 Advanced Rugged Tablet with Voice
- 27W 9V 3A AC charger with barrel type plug
- USB to Micro USB Cable
- OTG Cable
- Wired Headset
- Screen Protector
- SIM slot PIN
- Quick Start Guide
- Documentation

SERVICE AND SUPPORT

Protected by HP standard one year limited warranty including parts and onsite labor. 90 day software limited warranty options depending on country. Batteries have a one year default limited warranty. Terms and conditions may vary by country. 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>.

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.

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SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	100-240V, 50-60Hz
Temperature	Operating	14° to 122° F (-10° to 50° C)
	Special* (Low and High Temperature)	
	Typical	32° to 104° F (0° to 40° C)
Relative Humidity	Non-operating	-4° to 140° F (-20° to 60° C)
	Operating	0% to 90%
Shock	Non-operating	0% to 95%
	Operating	40 G, <=3 ms, half-sine
Random Vibration	Operating	1.043 grms
	Non-operating	3.50 grms
Altitude (unpressurized)	Operating	-50 to 15,000 ft (-15.24 to 4,572 m)

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

*Not meant to operate for more than two hours under these conditions, product will automatically shut down. Test performed with a fully charged battery, device stored for 30mins, using continuous 720p video playback, with middle level brightness, system audio level at 100% no adapter connected for two hours.

Technical Specifications

INDUSTRY STANDARD CERTIFICATIONS

Tablet:

EMC Compliance - EU/FCC/IC CISPR 22 / EN 55022; CISPR 24 / EN 55024; FCC CFR 47 Part 15 / ICES-003

Safety Compliance - UL/CSA/CB IEC/CSA/UL/EN 60950-1

Telecom & SAR Compliance - EU/FCC/IC EN 300 328; EN 300 440; EN 301 489; EN 301 893; EN 301 908; EN 301; EN 62311; EN 62209; EN 62479; FCC 47 CFR Part 2; IC RSS102

CE, EMI&RF, FCC EMI, BIS, IEC 60601, BQB, ISO 9001

Battery:

UL 1642, UL 2054, BIS, IEEE1725 PACK, IEEE1725 Cell, UN/DOT 38.3, IEC/EN/UL 62368, IEC/EN 621

Adapter:

CB, CE, UL, FCC, BIS, IEC 60601

ENVIRONMENTAL DATA

Low Halogen*

ENERGY STAR® certified**

Mercury Free display backlights and arsenic-free display glass

Recycled Packaging

EPEAT® Silver***

ROHS (including adapter)/REACH/GSE

WEEE (including adapter)

RAT, EDS

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>

Environment website

<http://www.hp.com/environment>

* External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

** ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency.

***EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options

Technical Specifications

COUNTRY OF ORIGIN

China

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Change Log

Date of change:	Version History:	Description of change:
04-12-2017	From 1 to 2	Updates to Display 16.7M color, Accessories list, Adaptor spec 5V to 9V and added SIM slot pin.
01-25-2018	From 2 to 3	Updates on SDcard 128GB support in FAT32 format, correction in value of Fahrenheit conversion, disclaimers on SDcard format, Service and Support.