

Components Overview

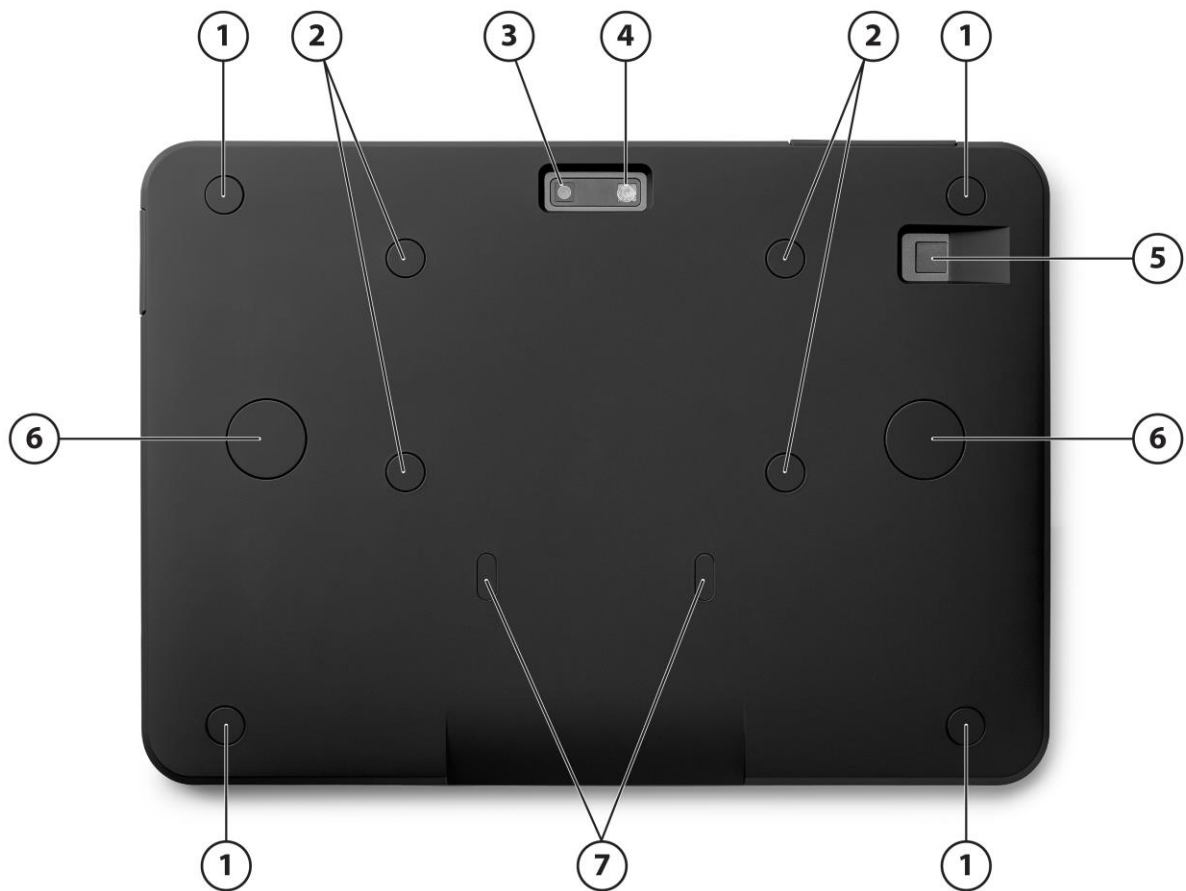
HP MX12 Retail Solution



Front View

- | | |
|---|--------------------|
| 1. Front-facing camera LED | 5. Alignment LED |
| 2. Front-facing camera | 6. Power button |
| 3. Stereo headphone-out/mic-in combo jack | 7. Volume controls |
| 4. USB 3.0a | |

Components Overview



Rear View

- | | | | |
|----|--|----|---------------------------------------|
| 1. | Shoulder strap connection points (K7T92AA) | 5. | Fingerprint reader |
| 2. | Hand strap connection points | 6. | PED mount attachment area* |
| 3. | Rear-facing camera LED | 7. | Latch areas for Retail Expansion Dock |
| 4. | Rear-facing camera | | |

* PED mounts included with each Retail Case 12

Overview

HP Retail Case 12

DIMENSIONS AND WEIGHT

Dimensions (W X D X H)

32.81 x 23.36 x 2.13 cm (landscape orientation, tablet included)
12.91 x 9.19 x 0.83 in

Weight (Grams, lbs.)

386.8g (0.67lbs)

PORTS

- (1) USB-C™ with Guest Protocol (only support Power, USB)
- (1) USB-C™ to connect with tablet
- (1) External 70-pin connector to Sprocket dock (only support Power, USB)

NOTE: The 70-pin connector on the bottom of the HP Retail Case 12 with HP Pro x2 612 G2 tablet supports only the HP Retail Expansion Dock (F3K89AA). Legacy adapters and peripherals are not supported on this connector and will not function.

SERVICE AND SUPPORT

1-year standard parts, labor and onsite limited warranty. Online technical support is available seven days a week, 24 hours a day. Certain restrictions and exclusions apply. Depending on country; 1-year limited warranty on primary battery. Optional HP Care Pack Services are extended service contracts which go beyond your standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Restrictions and limitations apply. Service starts at date of hardware purchase. For details, visit <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>

Features

HP Retail Expansion Dock*

- 6 Powered USB ports
- 4 Powered Serial ports for legacy peripherals
- 1 RJ-45 (Ethernet)
- 1 VGA port
- 1 HDMI port

NOTE: When docking the Pro x2 612 tablet with Retail Case 12 into the Retail Expansion Dock, the VGA and HDMI ports on the expansion dock are not active for the tablet and should not be used to connect a secondary display. You may instead connect a secondary display to the USB Type-A port on the expansion dock using any necessary video adapters. For additional information, refer to the documentation included with your product.

Standard Features

Two docking posts	Align and secure the HP Pro x2 Mobile Retail Solution for proper connection to the HP Retail Expansion Dock
Docking connector	Connects the HP Pro x2 Mobile Retail Solution to the HP Retail Expansion Dock
Charging LED	Indicates charging of Pro x2 when HP Pro x2 Mobile Retail Solution is properly connected, and also is used as a visual alignment indicator for fast and easy docking
Eject switch	Ejects HP Pro x2 Mobile Retail Solution from HP Retail Expansion Dock
USB ports	6 USB ports (one 24V for printer, 2 12V for complex character VFD and optional PIN pad, four 5V for scanner, keyboard, mouse, cash drawer, etc.)
Serial Ports	4 Serial ports for legacy peripherals (DB9, powered, jumper selectable - 5V/12V)
Video	1 HDMI connector and 1 VGA connector
Network	1 RJ-45 (Ethernet)
Security	Three security options: lock the HP Pro x2 Mobile Retail Solution to the HP Retail Expansion Dock with a key, secure the HP Retail Expansion Dock with a cable lock, or secure the HP Retail Expansion Dock to a counter or cash drawer with a bolt.
Power	Internal HP 150W AC Adapter and power cord
Dual hinge	Ability to adjust tilt and height of HP Pro x2 Mobile Retail Solution while docked
Option Kit Contents	HP Retail Expansion Dock for Pro x2, 150W AC Adapter, Power Cord, Input / Output cover, two keys, documentation

HP Pro x2 612 G2

- Windows 10 Pro 64, Windows® IoT for Retail
- Intel® next generation Pentium®, Core™ m3, Core™ i5 processors
- 12-inch diagonal capacitive multi-touch, eDP WUXGA+ BrightView WLED UWVA (1920 x 1280), featuring Corning® Gorilla® Glass 4
- Up to 8GB 1866 MT/s LPDDR3-1 SDRAM
- M.2 2280 128GB and PCIe 256GB SSDs
- Micro SD Card Slot supported, expandable up to 2TB
- 802.11ac WiDi (2x2) Wi-Fi
- Bluetooth® 4.0 connectivity (combo card with WiFi)
- LTE/HSPA+ WWAN options available¹

1. Must be configured at the time of purchase.

Features

OPERATIVE SYSTEM

Preinstalled

Windows 10 Pro (64-bit)*

Windows 10 IoT Enterprise for Retail (64-bit)

* 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.microsoft.com>.

NOTE: Your product does not support Windows 8 or Windows 7

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

PROCESSOR

Intel® Pentium® 4410Y with Intel® Graphics 615 (1.5 GHz, 2 MB cache, 2 cores)*

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

Intel® Core™ i5-7Y57 (up to 3.30 GHz, 4 MB cache, 2 cores)*

* 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. 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: Chipset is integrated with processor.

Features

MEMORY

Up to 8 GB LPDDR3-1866 SDRAM Dual Channel Memory (Transfer rates up to 1600 MT/s)

* Transfer rates up to 1600 MT/s. Onboard memory not customer accessible/upgradeable

STORAGE

Internal Storage Device

M.2 128GB SATA-3 SSD SS 2280 Value

PCIe Gen3x4 256GB SSD NVMe SS TLC

Micro SD Card Slot supported

Supports SDXC microSD cards up to 2 TB **

* GB = 1 billion bytes. Actual formatted capacity is less.

DISPLAY

Internal

30.48 cm (12-inch) diagonal capacitive multi-touch, eDP WUXGA+ BrightView, Ultralim (1920x1280)

Features:

- 1920x1280 High Definition (FHD)* resolution**
- 3:2 aspect ratio
- Brightness (typical) - 340 nits (cd/m²)
- 10 point capacitive touch solution, Direct bonding
- Anti-Smudge with Corning® Gorilla® Glass 4

External

24-bit per pixel color depth

*High definition (HD) content is required to view high-definition images

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

GRAPHICS

Integrated Intel® HD Graphics 615

Features

NETWORKING/COMMUNICATIONS

Integrated Wi-Fi*

Intel® Dual Band Wireless-AC 7265 802.11 a/b/g/b/ac WiDi (2x2) WiFi and Bluetooth® 4.0 Combo

WWAN**

WWAN NA-1-S3 LTE/EVDO/HSPA+ w/GPS M.2 (746479-002)

WWAN ME906E LTE/HSPA+ w/GPS M.2 (739797-002)

WWAN MU736 HSPA+ w/GPS M.2 (746700-002)

NFC

Near Field Communications

* Wireless access point and Internet service required and 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.

** WWAN is an optional feature, requires factory configuration, and use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

AUDIO/MULTIMEDIA

Audio

HD audio

2 Front-facing Stereo Speakers

2 Integrated Audio Microphones

3.5mm Combo headphone/microphone jack*

* Headphones are sold separately

Cameras

2MP HD Front-facing camera

8MP rear-facing auto-focus without LED flash

Sensors

Accelerometer

eCompass

Gyroscope

Ambient light sensor

Hall effect

Haptics

Features

POWER

Power Supply

HP 45W USB Type-C™ AC Adapter

HP 65W USB Type-C™ AC Adapter

Battery

41.58 Whr lithium-polymer

INPUT/OUTPUT (WITH CASE)

Ports/connectors

- (1) USB port Type C™ (Docking, power, USB)
- (1) USB 3.0a Port
- (1) 3.5mm Combo headphone/microphone jack*
- (1) Micro SD card slot** (tablet)
- (1) Micro SIM
- (1) Docking port

* Headphones are sold separately

** Up to 2TB of expandable storage. Micro SD card sold separately

WEIGHT AND DIMENSIONS

Dimensions (W x D x H)	Tablet-only	30 x 21.38 x 0.9 cm (11.81 x 8.42 x 0.36 in) landscape orientation
	Tablet + Case	32.81 x 23.36 x 2.13 cm (12.91 x 9.19 x 0.83 in)

Weight*	Tablet + Case	Starting at 1238g (2.73lbs.)
----------------	----------------------	------------------------------

* Weight will vary by configuration

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen3¹

HP SureStart Gen3¹⁰

HP DriveLock | HP Automatic DriveLock

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase²

Absolute Persistence Module³

Pre-boot Authentication

Features

Communication / Connectivity

HP Mobile Connect Pro (Windows 8.1 and Windows 10 only)⁴
Native Miracast Support⁵
HP LAN-WLAN Protection
HP MAC Address Manager
HP Wireless Wakeup
HP SureConnect
HP Workwise
HP Velocity

HP Value Add Software

HP ePrint Driver + JetAdvantage⁶
HP Hotkey Support - CMIT
HP Recovery Manager
HP Jumpstart
HP Support Assistant
HP Noise Cancellation Software
HP Notifications

Microsoft Products

Buy Office
Bing Search
Skype⁷

Manageability

HP Driver Packs⁸
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)⁸
HP BIOS Config Utility (BCU)⁸
HP Client Catalog⁸
HP MIK for Microsoft SCCM⁸
LANDESK Management⁹

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

Client Security Software

HP Client Security Suite Gen3¹¹

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Fingerprint Sensor
- HP Password Manager
- Absolute Persistence Module
- Power On Authentication

Microsoft Defender¹²

Features

Standard

Trusted Platform Module (TPM) 1.2 (Infineon SLB9670). Common Criteria EAL4+ Certified.

Upgradable to TPM 2.0. Convertible to FIPS 140-2 Certified mode. (TPM 2.0 is not available for Win 7 32-bit.)¹³

HP Fingerprint Reader (On select models)

HP Smart Card Reader

1. HP BIOSphere G3 requires Intel® or AMD® 7th generation processors.
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: <http://www.absolute.com/company/legal/agreements/> computrace-agreement. 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. HP Mobile Connect Pro is only available on preconfigured devices with WWAN and requires prepaid service purchase. For geographic availability refer to <http://www.hp.com/go/mobileconnect>
5. 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>
6. 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 <http://www.hp.com/go/eprintcenter>).
7. Skype is not offered in China.
8. Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>
9. Subscription required.
10. Sure Start Gen 3 is available on HP Elite products equipped with Intel® 7th generation processors.
11. HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th generation processors.
12. Microsoft Defender requires Windows 10.
13. This product ships with TPM 1.2 with option to upgrade to TPM 2.0. Upgrade utility is available via HP Customer Support

Technical Specifications

HP Retail Expansion Dock

Dimensions (H x W x D)	Fully extended with cable cover, without Retail Case	13.28 x 10.43 x 8.27 in (337.22 x 265 x 224.2mm)
	Fully collapsed with cable cover, without Retail Case	4.95 x 10.43 x 10.51in (125.82 x 265 x 267.03mm)
Weight	6.54lb (2965g). Includes embedded 150W power supply and AC power cord	
Power Supply (input)	Rated Voltage	100 to 240 V
	Rated Current	2.7A rms
	Line Frequency	50 - 60 Hz
Temperature	Operating	50° to 95° F (10° to 35° C)
	Non-operating	14° to 140° F (-10° to 60° C)
Relative Humidity	Operating/Non-condensing	10% to 90% relative humidity
	Non-operating	5% to 90% relative humidity, 101.6° F (38.7° C) maximum wet bulb temperature
Maximum Altitude	Operating	0 to 10,000 ft (0 to 3,048 m)
	Non-operating	0 to 30,000 ft (0 to 9,144 m)
Shock	Operating	40 G, 2-3 ms, half-sine
	Non-operating	165cm/sec, 2-3mm, half-sine
Vibration	Operating	0.21 G 5 to 500 Hz, random
	Non-operating	2.09G, 5 to 500Hz, random
	Non-operating	0.5G, zero to peak, 5 to 500Hz, 0.5 oct/min sweep rate, sine

DISPLAY

Diagonal Size	12.0 inch
Refresh Rate	60Hz
Aspect Ratio	Wide Aspect Ratio
Format	1920 x 1280
Brightness (typical)*	340 nits (cd/m ²)

Technical Specifications

ENVIRONMENTAL DATA

Low Halogen*

ENERGY STAR® certified**

Mercury Free display backlights and arsenic-free display glass

All HP computing products are delivered by SmartWay carriers***

Recycled Packaging

Eligible for free recycling or cash back through HP's Planet Partners Recycling and Consumer Buyback programs

(<http://www.hp.com/go/easybuyback>)****

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.

*** Designation based on actions to reduce transportation-related emissions. SmartWay: US only. (14e) Free recycling in select countries.

**** Program may not be available in your area. Check <http://www.hp.com/go/recycling> to see if HP offers free recycling in your area

COUNTRY OF ORIGIN

China

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

<u>Type</u>	<u>Description</u>	<u>Part #</u>
Case	HP Retail Case 12	Y6J29AA
Docking	HP Retail Expansion Dock	F3K89AA
Accessories	HP Retail Case Shoulder Strap	K7T92AA

Summary of Changes

Date of change:	Version History:		Description of change:
February 2, 2017	From v1 to v2	Added	Callout content and footnotes. Full processor descriptions.
		Removed	Port Replicator, Power and Adapter from Options and Accessories offering.
February 7, 2017	From v2 to v3	Added	HP Retail Expansion Dock features and Specs
March 9, 2017	From v3 to v4	Changed	Notes for Ports and Retail Expansion Dock.
April 20, 2017	From v4 to v5	Added	In The Input/Output section added With Case to denote.
		Changed	ElitePad was replaced with HP Pro x2 Mobile Retail Solution in Standard Features section, Page 8 & 11 changed the word to Case instead of Jacket.
		Removed	Integrated NFC was removed from the HP Pro x2 612 G2 features, The Video port subsection of Standard Features was removed, The 1 st note for HP Pro x2 612 G2 section was removed, The 1 st note for Operative System section was removed.
June 6, 2017	From v5 to v6	Added	Intel Core i5-7Y57 to Processors and PCIe Gen3x4 256GB SSD NVMe SS TLC to Storage section
		Changed	Memory up to 8GB SDRAM
		Removed	Reference to video ports on the Expansion Dock
June 27, 2017	From v6 to v7	Added	Reference to video ports on the Expansion Dock
		Changed	Processors section

Copyright © 2017 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Pentium and Core are registered trademarks or trademarks of Intel Corporation in the U.S. and/or other countries. Bluetooth is a trademark of its proprietor and used by HP Inc. under license. Microsoft and Windows are U.S. registered trademarks of the Microsoft group of companies. ENERGY STAR® is a registered trademark owned by the U.S. Environmental Protection Agency. USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. SD, SDXC, and microSD, are trademarks or registered trademarks of SD-3C in the United States, other countries or both.