Overview

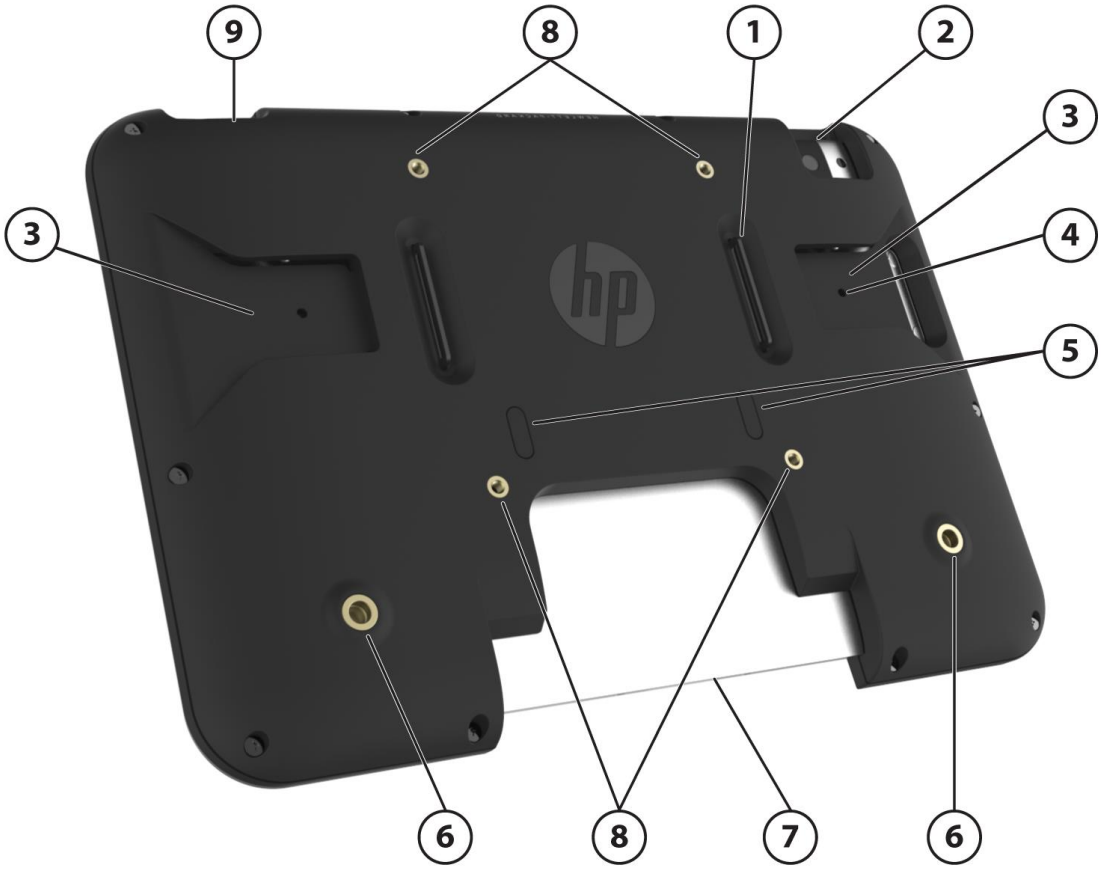
HP MX10 Retail Solution

HP ElitePad 1000 G2 + HP Retail Case or HP Retail Jacket + HP Retail Expansion Dock

FRONT VIEW OF MX10 RETAIL SOLUTION

1. HP ElitePad 1000 G2
2. HP Retail Case
3. HP Retail Expansion Dock

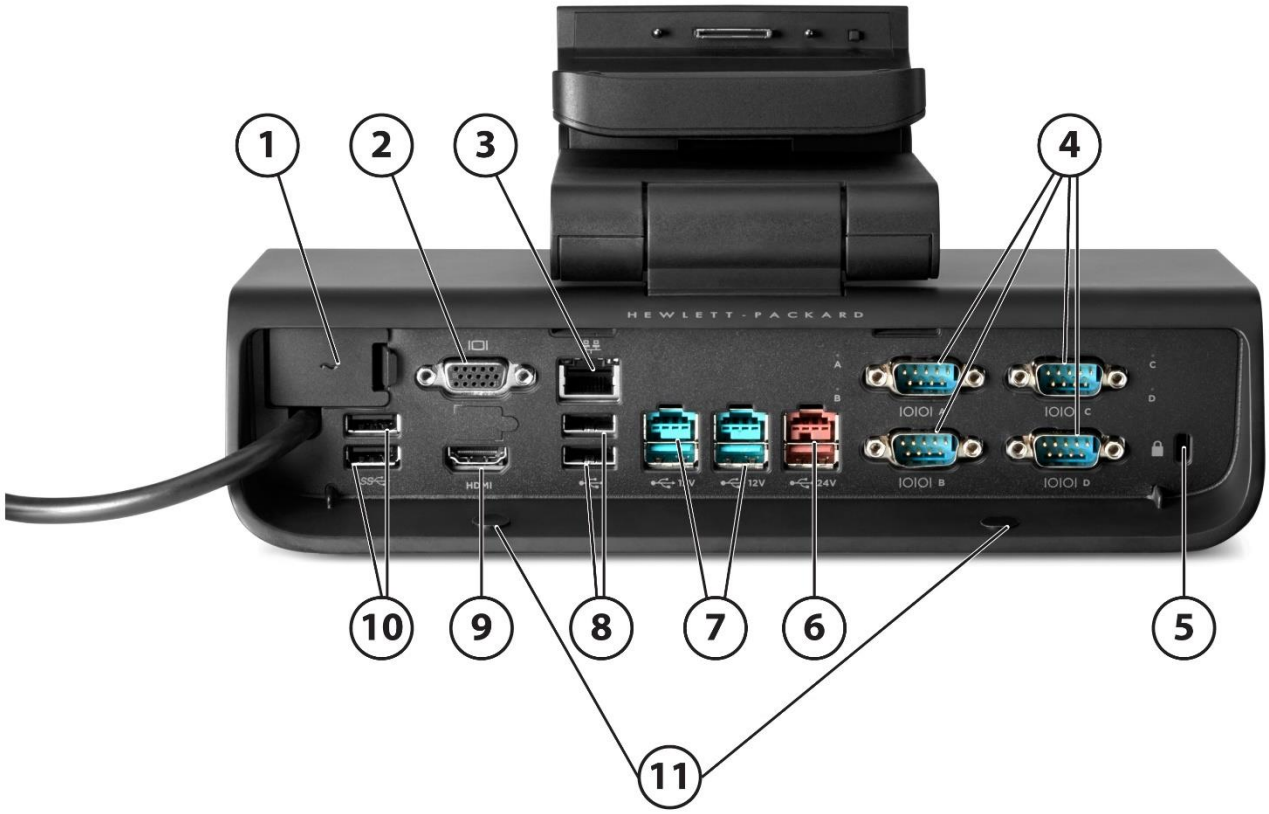
Overview



REAR VIEW OF HP RETAIL CASE

1. Brackets for Adjustable Hand Strap
2. Cutouts for Power, Camera, Volume buttons
3. PED mount attachment areas
4. PED screw-in security provision
5. Latch areas for Retail Expansion Dock
6. Shoulder strap connection points
7. 70-pin connector & ElitePad Dock Cutout
8. VESA mount connectors
9. Cutouts for Audio Jack

Overview



REAR VIEW OF HP EXPANSION DOCK

1. AC access door
2. VGA
3. RJ-45 (Ethernet)
4. Serial Ports (4) (power configurable)
5. Security lock slot
6. 24V powered USB
7. 12V Powered USB (2)
8. USB 2.0 (2)
9. HDMI
10. USB 3.0 (2)
11. Counter top mounting holes

Features

AT A GLANCE

HP ElitePad 1000 G2

- Windows 10 Pro, 64-bit, Windows 10 IoT Enterprise, 64-bit, Windows 8.1 Pro Retail 64, and Windows Embedded 8.1 Industry 64
- Two integrated webcams (2.1 MP/1080p (front facing); 8 MP with LED flash (rear facing))
- Intel® Atom Bay Trail-T Z3795 Quad Core 1.6 GHz SoC BGA
- Integrated Intel HD Graphics
- 10.1-inch diagonal WUXGA wide-viewing angle outdoor display (1920 x 1200)); 16:10 Aspect Ratio
- 4GB LPDDR3 1067 MHz Memory
- 2-cell (30 WHr) polymer HP Long Life battery
- 64 GB embedded Multi Media Card (eMMC)
- 9.2 mm thin profile
- Weight starting at 0.68 kg (1.50 lb)
- MicroSDXC card slot supports SDXC Cards up to 2TB
- Wireless connectivity: Broadcom 43241 802.11 a/b/g/n (2x2)+ BT 4 LE SDIO

Standard commercial 1 year limited warranty with extended services available with optional HP Care Packs.
NOTE: See important legal disclosures for all listed specs in their respective features sections.

HP Retail Case for ElitePad

- Allows users to physically attach their choice of a mobile payment device (PED or PIN entry device) to the HP ElitePad and conduct mobile transactions using any major payment method.
- 4 VESA mount screw holes allow the ElitePad to be mounted at an end cap, as a customer viewing display or in a fixed POS setting.
- Locks into the HP Retail Expansion dock for access to full POS connectivity and physical locking. Also compatible with the HP ElitePad Docking Station.
- 2-shoulder strap attach points for easy and reliable carrying.*
- Elastic hand strap supports comfortable use of ElitePad.

* Requires separately purchased third party shoulder sling.

HP Retail Jacket for ElitePad

- 1D/2D barcode scanner
- Three-track, bi-directional magnetic stripe reader
- USB port
- Hand strap
- Shoulder sling provisions***
- Optional battery

HP Retail Expansion Dock for ElitePad

- 6 USB ports
- 4 Serial ports for legacy peripherals
- 1 HDMI connector and 1 VGA connector
- 1 RJ-45 (Ethernet

Features

PRODUCT NAME

HP MX10 Retail Solution

- HP ElitePad 1000 G2
- HP Retail Case for ElitePad or HP Retail Jacket for ElitePad
- HP Retail Expansion Dock

OPERATING SYSTEM

Preinstalled

Windows 10 Pro, 64-bit *
Windows 10 IoT Enterprise, 64-bit *
Windows 8.1 Pro Retail 64 **
Windows Embedded 8.1 Industry 64 **

* 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 for details.

** Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See www.microsoft.com for details.

PROCESSOR

Intel Atom Z3795 (Quad Core 1.6 GHz base/2.39 GHz burst SoC BGA)*

* 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on 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 SoC PCH

GRAPHICS

Integrated:
Intel HD Graphics

DISPLAY

Internal

10.1-inch diagonal WUXGA wide-viewing angle outdoor display (1920 x 1200)

- Wide-viewing angle
- Direct bonded
- Multi-touch capacitive digitizer
- Auto rotate (selectable)
- Tough, durable Corning Gorilla Glass 3
- Anti-smudge coating

Features

External
Up to 32-bit per pixel color depth

HDMI
Supports resolutions up to 1920x1200 @ 60 Hz

STORAGE AND DRIVES

Internal Storage Device
64GB* embedded Multi Media Card (eMMC)

MicroSDXC card slot supported
Supports MicroSDXC Cards up to 2TB

Removable Storage
Optional HP External Optical Drive using ElitePad USB connector

* For Solid State Drives (SSD), GB = 1 billion bytes. Actual formatted capacity is less. Up to 5 GB for Windows 8.1 is reserved for system recovery software.

MEMORY

Standard
4 GB LPDDR3 1067 MHz memory

NETWORKING/COMMUNICATIONS

Integrated Wireless LAN*
Broadcom 43241 802.11 a/b/g/n (2x2)+ BT 4 LE SDIO

*Wireless access point and internet service requires. Availability of public wireless access points limited.

AUDIO/MULTIMEDIA

Audio
HD audio
2 Integrated stereo speakers
2 integrated microphones (dual-microphone array) (noise cancelling and beam forming)
Combo stereo/headphone/microphone jack

Cameras
Integrated 2.1 MP/1080p* with LED (front-facing)
8 MP with LED flash (rear facing)

* HD content required to view HD images.

INPUT DEVICES

Optional HP Executive Tablet Pen G2*

* Sold separately or purchased as an optional feature.

SENSORS

Features

Accelerometer
eCompass
Gyroscope
Ambient Light Sensor
Haptics

POWER

Power Supply

External 10-watt HP ElitePad 10W Smart AC Adapter with detachable duck-heads
Total length is 5.9 ft (180 cm).

Primary Battery

2-cell (30 WHr) Lithium Polymer battery

Battery Life*
Up to 13.5 hours**

System Standby Time

Standby life will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

Power Conservation

Balanced

* Sold separately or as an optional feature.
**Testing conducted by HP consisting of full battery discharge while running a series of productivity scripts against the following applications (which may or may not be included with your particular product): Adobe ® AcrobatReader 7.0, Adobe® Illustrator® CS2, Adobe® Photoshop® CS2, Apple® Quicktime 7.1, Intervideo® WinDVD® 8, Macromedia® Flash 8, Microsoft® Office® 2003 Pro, Microsoft® Project 2003, and Winzip® 10.0. Prior to testing, the system was fully charged, display brightness was set at 60 nits, wireless was turned off, and auto dim, suspend, hibernate and all other programs, utilities, and services not essential to running the computer system or battery life test were disabled. Battery life will vary depending on the 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.

Features

WEIGHTS & DIMENSIONS

Weight

ElitePad Only	Starting at 0.68kg (1.50 lb)*
ElitePad with Retail Case	Starting at 0.99kg (2.18lb)*
ElitePad with Retail Jacket	Starting at 1.24 kg (2.74 lb)*
Retail Case Only (includes hand strap)	0.31 kg (0.68 lb)
Retail Jacket Only	0.56 kg (1.24 lb)
Retail Expansion Dock	2.96 kg (6.54 lb)

*Weight will vary by configuration. ElitePad weight includes 2-cell battery, embedded Multi Media Card, and 4 GB memory.

Dimensions (W x D x H)

ElitePad only	26.10 x 0.92 x 17.80 cm	10.28 x 0.36 x 7.01 in
ElitePad with Retail Case	28.54 x 2.05 x 19.44 cm	11.24 x 0.81 x 7.65 in
Retail Case Only	28.54 x 2.05 x 19.44 cm	11.24 x 0.81 x 7.65 in
Retail Jacket Only	27.70 x 3.20 x 20.70 cm	10.91 x 1.26 x 8.15 in
Retail Expansion Dock Only	33.70 x 26.49 x 21.00 cm	13.28 x 10.43 x 8.27 in

PORTS/SLOTS

Ports
Headphone/Microphone Combo Jack – One
System Connector – One

Digital Media Slots
Micro SDXC card slot
Micro SIM slot

Features

SOFTWARE AND SECURITY

Software	**Windows 10 Pro, 64-bit, Windows 10 IoT Enterprise, 64-bit, Windows 8.1 Pro Retail 64, Windows Embedded 8.1 Industry 64**
Included Security	HP Client Security (incl. Credential Manager and Password Manager) Absolute Data Protect[1] Device Access Manager with Just In Time Authentication (web only) Essential System Updates for Microsoft Windows 8.1
HP Value Add Software	HP ePrint Driver[2] HP Manageability HP PageLift PDF Complete HP WallPaper System Default Settings HP PC Hardware Diagnostics UEFI
Microsoft Products	Buy Office

1. HP ElitePad 1000 includes a 4 year license of Absolute Data Protect to locate your device, lock and prevent unauthorized access and remotely delete personal data. License must be activated by customer. 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, check 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**.** If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
2. HP ePrint 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/businessmobileprinting

Security

Client Management Solutions - Fully manageable and supported by industry-standard HP Client Management Solutions. Optional LANDesk management suite simplifies mobile device management and security. Contact your account team or hp@landesk.com for more information.

LANDesk Management Suite 9.5 (sold separately)LANDesk Security Suite (sold separately)

HP System Software Manager (SSM)*
HP BIOS Configuration Utility (BCU)*
HP Client Management Interface (HP CMI)*

* Free downloads available at the CMS website under HP Hardware Management tools
http://www.hp.com/go/clientmanagement

Features

Standard
Firmware TPM* (default), hardware TPM (v1.2)
Near Field Communication with Secure Element**

* A subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
** NFC is shipped disabled.

For more information on HP security solutions refer to: http://www.hp.com/go/security

SERVICE AND SUPPORT

1-year standard parts, labor and onsite limited warranty, 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.

For more details visit: http://www.hp.com/go/cpc.

* Sold separately or as an optional feature.

NOTE: 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 http://www.hp.com/go/cpc. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp

Technical Specifications

HP RETAIL CASE

Dimensions (W x D x H)		28.54 x 2.05 x 19.44 cm (11.24 x 0.81 x 7.65 in)	
Weight	**Retail Case Only (includes handstrap)**	0.31kg	(0.68lb)
	Retail Case w/ElitePad	0.99kg	(2.18lb)

HP RETAIL JACKET FOR ELITEPAD

Dimensions (W x D x H)	10.91 x 1.26 x 8.15 in (27.7 x 3.2 x 20.7 cm)	
Weight	1.24 lb (0.56 kg) (jacket only)	
Ports / connectors	(1) USB port (1) Power/system connector	
Additional feature	(1) Hand strap (right or left handed orientation)	
Drivers	Windows native, OPOS, JavaPOS, POS for .NET (MSR only)	
Stand-alone power requirements	**Normal Operating Voltage**	6.5 V
	Average Operating Power	8.952 W
	Max Operating Power	< 40 W
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%, relative humidity
	Non-operating	5% to 95% relative humidity, 101.6° F (38.7° C) maximum wet bulb temperature
Altitude	**Operating**	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Shock	**Operating**	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random vibration	**Operating**	10-500 Hz, 0.5 grms
	Non-operating	10-500 Hz, 1.0 grms
Barcode scanner	**Scanner type**	Omni-directional
	Light Source	622 nm – 628 nm visible LED
	Nominal working distance/depth of field	35 mm – 210 mm
	Print contrast	≥30%

Technical Specifications

Scan angle		36˚ (horizontal)
Decode symbologies factory default barcodes		• Code39* • Code93* • Code128* • UPC-A* • UPC-E* • EAN-8* • EAN-13* • PDF417* • UCC/EAN 128* • GS1 Databar* • QR Code* • Data Matrix* * Factory setting has these code selections enabled by default Available symbologies 1D symbologies: Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN, Code93, UCC/EAN-128, S1 Databar, etc. 2D symbologies: PDF417, QR Code (model ½), Datamatrix (EC200, ECC000, 050, 080, 100, 140), Aztec, Maxiode, etc.
Magnetic Stripe Reader	**General**	Bi-directional Reads up the three (3) tracks
Formats		Reads ISO 7811, ASMVA cards
Card thickness		0.015 to 0.045 in (0.38 to 114 mm)
Slot width		0.045 to 0.061 in (1.15 to 1.55 mm)
Reliability		500,000 card swipes
Encryption		Supported algorithms: Triple DES, AES Supported key management: DUKPT, Fixed Shipped with encryption disabled*

* The MSR is shipped in unencrypted mode so that data is transmitted in clear text. Encryption mode may be enabled by customer using separately purchased injection service. Additional service fees may apply to process payment transactions. Internet access required

HP Retail Expansion Dock

Standard Features

Two docking posts	Align and secure the HP ElitePad Mobile POS Solution for proper connection to the HP Retail Expansion Dock.
Docking connector	Connects the HP ElitePad Mobile POS Solution to the HP Retail Expansion Dock.
Charging LED	Indicates charging of ElitePad when HP ElitePad Mobile POS Solution is properly connected, and also is used as a visual alignment indicator for fast and easy docking.
Eject switch	Ejects HP ElitePad Mobile POS 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 ElitePad Mobile POS 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 ElitePad Mobile OS Solution while docked
Option Kit Contents	HP Retail Expansion Dock for ElitePad, 150W AC Adapter, Power Cord, Input / Output cover, two keys, documentation.

Technical Specifications

Dimensions (H x W x D)	Fully extended with cable cover, without Retail Jacket	13.28 x 10.43 x 8.27 in (337.22 x 265 x 224.2mm)
	Fully collapsed with cable cover, without Retail Jacket	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

Technical Specifications

SYSTEM UNIT (ElitePad Only)

Stand-Alone Power Requirements (AC Power)	**Nominal Operating Voltage**	90 Vac~265 Vac
	Average Operating Power	8 W
	Max Operating Power	< 10 W
Temperature	**Operating**	32° to 95° F (0° 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%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	**Operating**	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	**Operating**	0.75 grms
	Non-operating	1.50 grms
Altitude (unpressurized)	**Operating**	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard Certifications	**UL**	Yes
	CSA	Yes
	FCC Compliance	Yes
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes
	CIT	Yes
	GOST	Yes
	Saudi Arabian Compliance (ICCP)	Yes
	SABS	Yes
	UKRSERTCOMPUTER	Yes

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

Technical Specifications

DISPLAYS

10.1-inch diagonal WUXGA wide-viewing angle outdoor display (1920 x 1200)	**Diagonal Size**	10.1 inch
	Surface	Anti-smudge Gorilla Glass 3
	Refresh Rate	60Hz
	Brightness	400 nits (typical)*
	Format	1920 x 1200

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

STORAGE AND DRIVES

64 GB embedded Multi Media Card (eMMC)	**Drive Weight**	Up to 2g
	Capacity	64 GB
	Height	1.4 mm
	Width	12 x 16 mm
	Interface	MMC protocol v4.51
	Performance	Sequential Read : 100MB/s (min.) Sequential Write ： 40MB/s (min.)
	Features	Embedded Multi Media Card v4.51 compliant, TRIM, Secure Erase, CMD5 support, Partition management, Enhanced Write Protection, HS200 support

SECURITY

Near Field Communications (NFC)*	**NFC Specifications**	ISO/IEC 14443A, ISO/IEC 14443B PCD 106 kbps to 848 kbps ISO/IEC 14443A, ISO/IEC 14443B PICC 106 kbps to 424 kbps ISO/IEC 15693/ICODE reader NFC-IP1 and NFC-IP2 protocols, 106 kbps to 424 kbps MIFARE reader encryption mechanism NFC Forum Types 1-4 card reader
	Supported Host Interfaces	I2C Automatic wakeup from Standby via host control interface
	Dimensions	0.18 x 0.18 x 0.04 in (4.5 x 4.5 x 0.9 mm)
	Frequency Band	13.56 MHz ISO Band
	RF Output Voltage	3.3 V max 150 mA max (@3.0V output)
	Power Consumption	1.5 W (max)
	Antenna	Built-in
	Antenna Range	Up to 0.79 in (2 cm)
	Secure Element Interfaces	SWP/HCI according to ETSI/SCP standardization ISO/IEC 28361 (ECMA 373) NFC-WI. Data rate restricted to 106kbps
	Embedded Secure Element (eSE)	P5CN145 SmartMX Secure Dual Interface PKI Smart Card Controller
	eSE Memory	144 kB EEPROM

		264 kB User ROM 7.5 kB RAM (5 kB standard, 2.5 kB FameXE RAM)
	Operating Temperature	-13 to 185 °F (-25 to +85°C)

* NFC is shipped disabled.

NETWORKING/COMMUNICATIONS

BROADCOM DUAL BAND WIRELESS-N 43241 802.11 A/B/G/N (2X2) WIFI + BLUETOOTH® 4.0 COMBO ADAPTOR *	**WIRELESS LAN STANDARDS**	IEEE 802.11A IEEE 802.11B IEEE 802.11G IEEE 802.11N	
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)	
	Frequency Band	802.11b/g/n	2.402 - 2.482 GHz
		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
	Antenna Structure	2 transmit; 2 receive (2x2)	
	Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)	
	Modulation	Direct Sequence Spread Spectrum CCK, BPSK, QPSK, 16-QAM, 64-QAM	
	Security[1]	• 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	
	Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.	
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
	Roaming	IEEE 802.11 compliant roaming between band Access Points	
	Output Power[2]	• 2.4G: +13.5dBm minimum • 5G: +12dBm minimum	
	Power Consumption	Transmit: 2.0 Watts Receive: 1.6 Watts	

Technical Specifications

		Idle mode[3]: 150 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Radio off: 25 mW
	Power Management	802.11 compliant power saving mode
	Receiver Sensitivity[4]	802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps) 802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm (11 Mbps) 802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps) 802.11n:-69 dBm (150 Mbps), -66 dBm (300 Mbps)
	Antenna Connections	2 U.FL type connectors (output impedance of 50 ± 2 ohms)
	Form Factor	Customize LGA Card
	Dimensions	Width 17 x Depth 10.5 x High 1.5(mm)
	Operating Voltage	3.3v +/- 9% and 1.8V +/- 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)
HP Integrated Module with Bluetooth 4.0 LE SDIO Wireless Technology* *This module is Bluetooth Smart Ready for systems running Windows 8 and Windows 8.1.	**Bluetooth Specification**	BT 4.0 LE SDIO
	Dimensions	Width 17 x Depth 10.5 x High 1.5(mm)
	Frequency Band	2402 to 2480 MHz
	Number of Available Channels	79 (1 MHz) available channels
	Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
	Transmit Power	-1.5 dBm to 4 dBm (Bluetooth Class II)
	Receiver Sensitivity	Better than -20 dBM at 0.1 % raw bit error rate
	Power Consumption	Peak (Tx) 300 mW Peak (Rx) 180 mW Selective Suspend 10 mW
	Antenna	Internally integrated within module
	Range	Up to 33 ft (10 m)
	Electrical Interface	UART compliant Microsoft Windows Plug and Play compliant Broadcom Bluetooth for Windows

Technical Specifications

Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	Point to Point, Multipoint Pico Nets up to 7 slaves
Security	Full support of Bluetooth Security Provisions
Power Management	Microsoft Windows ACPI, and USB Bus Support Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Certifications	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Bluetooth Profiles Supported	Serial Port Profile (SPP)[1] Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN)[1,2] Generic Object Exchange Profile (GOEP)[1,2] Object Push Profile (OPP)[1,2] File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP)[1,2] Personal Area Networking Profile (PAN)[1,2] Human Interface Device Profile (HID)[1,2] FAX Profile (FAX) Basic Imaging Profile (BIP)[2] Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

* Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

AUDIO/MULTIMEDIA – HD audio

Audio Output Quality	**Frequency Response**	20 Hz - 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-110 dB
	Play/Record Sampling Rate(s)	8 kHz - 48kHz
	DAC	16, 20 or 24-bit
	ADC	16 or 20-bit
Integrated Stereo Speakers	**Power Rating**	500mW
	Impedance	4 ohm

POWER

HP 10W non-Smart AC Adapter	**Dimensions**	2.56 x 2.17 x 1.12 in (65.0 x 55.0 x 28.5 mm)	
	Input	100 to 240 VAC	
		Input dPower Rating	< 15W
		Input frequency range	47 – 63 Hz
		Input AC current	0.3A at 90 VAC
	Output	**Voltage**	9V +/- 4.0%
		Constant power	11 W (maximum) continuously between DC output 9V – 6.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	1.1A
	Connector	3 pin/grounded, mates with interchangeable cords; 70 pin / tyco connector (to tablet side)	
	Environmental Design	**Operating temperature**	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Operating altitude	0 to 16,404 ft (0 to 5,000 m)
		Non-operating altitude	0 to 50,000 ft (0 to 15,240 m)
		Humidity	0% to 95%
		Storage Humidity	0% 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	
HP 2-cell (30 WHr) Polymer Long Life Primary battery	**Weight**	0.17 kg	
	Dimensions (H x W x L)	8.7 x 1.56 x 0.17 in (22.09 x 13.963 x 0.43 cm)	
	Cells/Type	2-cell, Lithium Ion Polymer	
	Energy	**Voltage**	7.4V

Technical Specifications

	Amp-hour capacity	4.2
	Watt-hour capacity	30Wh
	Operating (Charging)	32˚ to 113˚ F (0˚ to 45˚ C)
Temperature	**Operating (Discharging)**	14˚ to 140˚ F(-10˚ to 60˚ C)
	Non-operating	-4˚ to 140˚ F (-20˚ to 60˚ C)
Battery Re-Charge Time	**System in OFF or Standby Mode**	depends on system setting
	System ON	depends on system setting
Fuel Gauge LED	No	
Warranty	36 months	
Optional Travel Battery Available	No	

ENVIRONMENTAL DATA

MATERIAL USAGE

This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment (http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- 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
- 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)
- Nickel finishes that release greater than 0.5 µgrams/cm^2/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

END-OF-LIFE MANAGEMENT AND RECYCLING

Eligible for recycling or cash back through HP's buyback and recycling program.*
http://www.hp.com/go/smbrecycling (10 units or less)
www.hp.com/go/businessrecycling (overview of all business related end of use programs)

Technical Specifications

Email recycling.quote@hp.com to get a quote or details on recycling programs

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

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.

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
Environment website
http://www.hp.com/environment
Eco-label certifications
http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html
ISO 14001 certificates:
http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

COUNTRY OF ORIGIN

China

Options and Accessories (may vary per country)

Type	Description	Part #
Docking	HP ElitePad Mobile POS Charging Dock	G8C11AA
Input/Output	HP Executive Tablet Pen (G2)	F3G73AA
	HP ElitePad USB Adapter (USB 2.0)	H3N46AA
	HP ElitePad 3.0 Adapter	E8F98AA
	HP USB External DVDRW Drive	F2B56AA
	HP ElitePad Productivity Jacket	D6S54AA
	HP ElitePad Productivity Jacket (Americas)	D6S54UT
	HP ElitePad Productivity Jacket (EMEA)	D6S54ET
	HP ElitePad SD Card Reader	H3N48AA
	HP ElitePad Serial Adapter	H3N50AA
	HP Slim Bluetooth Keyboard	H4Q44AA
	HP Mini Wireless Keyboard (Mulit-OS)	E5J21AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP X4000b Bluetooth Mouse	H3T50AA
	HP Slim Bluetooth Mouse	F3J92AA
Power	HP ElitePad 10 Watt AC Adapter	H4K08AA
	HP 65W Smart Adapter	ED49494AA
	HP ElitePad 40W AC Adapter	H5W93AA
	HP ElitePad Jacket Battery	H4F20AA
	HP ElitePad 12W USB Auto Adapter	F5V87AA
	HP ElitePad Smart AC Adapter	H3N47AA
	HP ElitePad USB Chrg 24Pk Cable	F5V88A6
Video	HP ElitePad HDMI & VGA Adapter	H3N45AA
Networking	HP ElitePad Ethernet Adapter	H3N49AA
	HP ElitePad Power/Ethernet Adapter	TBD
Charging Station	HP Multi-Tablet Charging Module	H4W98UT
Miscellaneous	HP Retail Jacket for ElitePad NoBattery	E6R78AA
	HP Retail Jacket for ElitePad w/Battery	E6R79AA

NOTE: For additional information and specifications for the HP ElitePad Accessories, please access the HP ElitePad Accessories QuickSpecs: http://h18004.www1.hp.com/products/quickspecs/14491_div/14491_div.html

Summary of Changes

Date of change:	Version History:		Description of change:
November 30, 2013	From v1 to v2	Changed	Added several new images Made some minor grammatical changes throughout
January 11, 2015	From v2 to v3	Added	HP ElitePad Mobile POS Charging Dock, HP Retail Case, HP Retail Jacket, and HP Retail Expansion Dock
		Changed	Linearts for Product photos with callouts
March 1, 2016	From v3 to v4	Added	Windows 10 Pro, 64-bit, and Windows 10 IoT Enterprise Pro Retail, 64-bit and notes.

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