

Technical Specifications

HP Ultra-light Docking Stations

Models

HP USB-C Universal Dock New!	1MK33AA
HP USB-C Mini Dock New!	1PM64AA
HP USB-C Travel Dock	T0K29AA
HP USB Travel Dock	T0K30AA
HP Elite USB-C Docking Station	X7W54AA
HP Advanced Wireless Docking Station	F7M97AA
HP UltraSlim Docking Station	D9Y32AA
HP Elite 90W Thunderbolt 3 Dock	1DT93AA
HP ZBook 150W Thunderbolt 3 Dock	P5Q58AA
HP ZBook 200W Thunderbolt 3 Dock	P5Q61AA

Technical Specifications

HP USB-C Universal Dock



- 1. USB 3.0 charging/data port
- 2. USB-C™ charging/data port

- 3. Combo audio port

HP USB-C Universal Dock



- 1. Dual DisplayPort™ ports
- 2. Ethernet port
- 3. USB 2.0 ports

- 4. Power adapter port
- 5. Security lock slot

Technical Specifications

Components	
Ports	1 USB-C™ charging/data port 4 USB ports (1 USB 3.0, 3 USB 2.0) 1 Power Adapter port 2 DisplayPort™ ports 1 Ethernet port (10/100/1000) 1 combo audio port 1 Security lock slot
	HP USB-C Universal Dock
Dimensions (H x W x D)	7.87 x 2.76 x 1.1 in (200 x 70 x 28 mm)
Weight	0.77 lb (0.350 kg)
Video resolution	Single display: up to 5120 x 2880 @ 60Hz, Dual display: up to 3840 x 2160 @ 60Hz
Front components	One powered USB 3.0 port , One USB-C port (data), Combo Audio Jack
Rear components	Two DisplayPort ports, Gigabit Ethernet port, Three USB 2.0 ports, AC adapter power connector
Side components	Kensington lock slot , USB-C cable that connects to computers
Network manageability features	PXE Boot; Wake On Lan (WoL) Note: your computer might support WoL from the Off, Sleep or Hibernation States, or only when the computer is On or in Sleep. MAC Address Pass Through Note: your computer might support MAC Address Pass Through from the On, Off, Sleep or Hibernation States, or only when the computer is On or in Sleep; supported for UEFI PXE Boot); WLAN – LAN switching Note: supported only on select computers running Windows 10 operating system.
Power Delivery (PD) profile	USB-C PD 3.0 supporting 5V/3A, 9V/3A, 10V/3A, 12/3A, 15V/3A, 20V/3A
Operating systems	Windows 7 and above, Windows10 S, Chrome Note:To install the dock drivers on computers running Windows 10 S operating system, run Windows Update.
Stand-alone power requirements	
Normal Operating Voltage	19.5V
Average Operating Power	77W
Max Operating Power	88W
Temperature	
Operating	32~104 °F (0~40 °C)
Non-operating	-4~140 °F (-20~+60 °C)
Relative humidity	
Operating	5%~90% RH, non-condensing
Non-operating	5%~95% RH, non-condensing
Altitude	
Operating	10000 ft (3048 m)
Non-operating	30000 ft (9144 m)

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Shock	
Operating	40G, 2ms, half-sine
Non-operating	240G, 2ms, half-sine
Random vibration	
Operating	~0.21Grms, 5~500 Hz
Non-operating	~2.09Grms, 5-500 Hz, Non-Operating
Option Kit Contents	HP USB-C™ Universal Dock, AC power cord, 90W A/C adapter, USB-A to USB-C™ adapter, and documentation

Technical Specifications

HP USB-C Mini Dock - Front side



1. USB-C™ charging/data port

HP USB-C Mini Dock - Rear side



1. HDMI port
2. VGA port
3. Ethernet port
4. USB-A ports

Components

Ports	<ul style="list-style-type: none"> 1 USB-C™ charging/data port 2 USB ports (1 USB 3.0, 1 USB 2.0) 1 Ethernet port (10/100/1000) 1 VGA port 1 HDMI
HP USB-C Mini Dock	
Dimensions (H x W x D)	5.7x2.17x0.69 in (145x55x17.5 mm)
Weight	.29 lb (0.132 kg)
Video resolution	<ul style="list-style-type: none"> Only single display supported HDMI: 4096 x 2160 @ 30Hz VGA: 1920 x 1080
Stand-alone power requirements	
Normal Operating Voltage	5V
Average Operating Power	12W
Max Operating Power	15W
Temperature	
Operating	32~104 °F (0~40 °C)
Non-operating	-4~140 °F (-20~+60 °C)
Relative humidity	

Technical Specifications

Operating	5%~90% RH, non-condensing
Non-operating	5%~95% RH, non-condensing

Altitude

Operating	10000 ft (3048 m) @2 hours
Non-operating	30000 ft (9144 m) @ 2 hours

Shock

Operating	40G, 2ms, half-sine
Non-operating	240G, 2ms, half-sine

Random vibration

Operating	~0.21Grms, 5~500 Hz
Non-operating	~2.09Grms, 5-500 Hz, Non-Operating

Network manageability features

PXE Boot;
Wake On Lan (WoL)
Note: your computer might support WoL from the Off, Sleep or Hibernation States, or only when the computer is On or in Sleep.
MAC Address Pass Through
Note: your computer might support MAC Address Pass Through from the On, Off, Sleep or Hibernation States, or only when the computer is On or in Sleep; supported for UEFI PXE Boot);
WLAN – LAN switching
Note: supported only on select computers running Windows 10 operating system.

Power Delivery (PD) profiles

USB-C PD 3.0 supporting 90W, 65W, 45W, 15W and 10W USB-C AC Adapters (not included)
- 90W USB-C AC Adapter supports 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A
- 65W USB-C AC Adapter supports 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A
- 45W USB-C AC Adapter supports 5V/3A, 9V/3A, 12V/2.3A, 15V/2A
- 15W USB-C AC Adapter supports 5V/1A
- 10W USB-C AC Adapter supports 5V/0.5A

Option Kit Contents

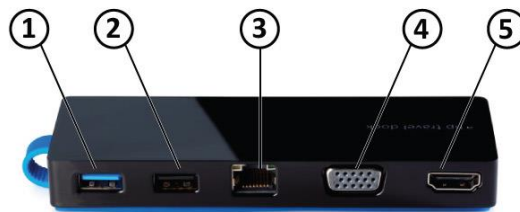
HP USB-C Mini Dock, Documentation

Technical Specifications

HP USB-C Travel Dock - Front side



HP USB-C Travel Dock - Rear side



1. USB 3.0 port
2. USB 2.0 port
3. Ethernet port

4. VGA port
5. HDMI port

Components

Ports	2 USB ports (1 USB 3.0, 1 USB 2.0) 1 Ethernet port (10/100/1000) 1 VGA port 1 HDMI
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Dimensions (W x D x H)	HP USB-C Travel Dock 1.20 x 1.71 x .69 inches (3.06 x 4.34 x 1.75 cm)
Weight	.21 lb (95 g)
Power requirements	
Powered from VBUS	5 Volts/3 Amps
Operating Systems Supported	Microsoft-Windows XP/Vista/Win7/Win8.1/Win10 (install updated driver)
Option Kit Contents	HP USB-C Travel Dock and documentation

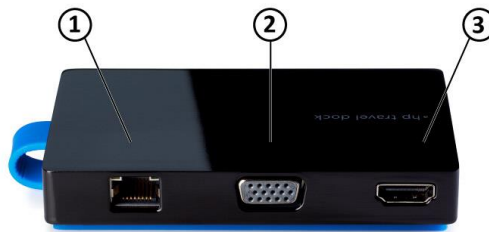
HP USB Travel Dock - Front side

Technical Specifications



1. USB ports (2)

HP USB Travel Dock - Rear side



1. Ethernet port
2. VGA port

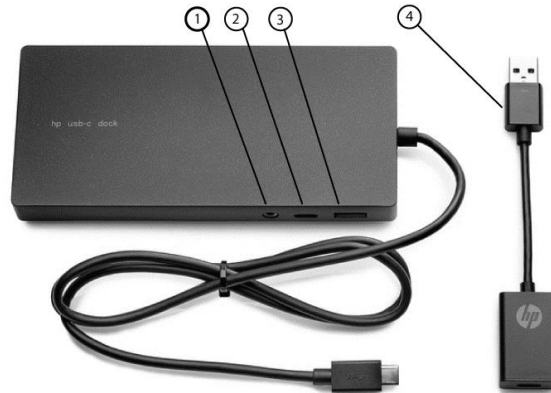
3. HDMI port

Components

Ports	2 USB ports (1 USB 3.0, 1 USB 2.0) 1 Ethernet port (10/100/1000) 1 VGA port 1 HDMI
Dimensions (W x D x H)	HP USB Travel Dock 5.0x1.5x0.75 inches (12.7 x 3.81 x 1.9 cm)
Weight	.21 lb (95 g)
Power requirements	5 Volts/3 Amps
Powered from VBUS	
Operating Systems Supported	Microsoft-Windows XP/Vista/Win7/Win8.1/Win10 (install updated driver)
Option Kit Contents	HP USB-C Travel Dock, documentation

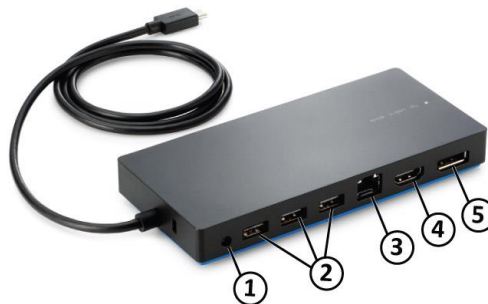
Technical Specifications

HP Elite USB-C Docking Station - Front side



1. Headphone/microphone combo
2. USB-C™ port
3. USB port
4. USB Type A to Type C Adapter

HP Elite USB-C Docking Station - Rear side



1. Power In
2. USB ports (3)
3. Ethernet port
4. HDMI port
5. DisplayPort

Components

Ports	5 USB ports (1 USB-C, 3USB 2.0, 1 USB 3.0) 1 Ethernet port (10/100/1000) 1 HDMI 1 DisplayPort
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Technical Specifications

	HP Elite USB-C Docking Station
Dimensions (H x W x D)	6x2.76x0.77 in (152.4x70x19.6 mm)
Weight	.66 lb (0.3kg)
Stand-alone power requirements	
Normal Operating Voltage	18.519.5 V
Average Operating Power	55 W
Max Operating Power	< 65 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
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	125 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Option Kit Contents	HP Elite USB-C Docking Station, AC Power Cable, 65W AC power adapter, HP USB Type A to Type C Adapter, Tether, documentation

Technical Specifications

HP Advanced Wireless Dock – Front side



- 1. Connection button
- 2. USB 3.0 Charging port

- 3. Headphone out
- 4. Microphone in

Technical Specifications

HP Advanced Wireless Dock – Rear side



- | | |
|--------------------------|-------------------------|
| 1. Reset button | 5. VGA port |
| 2. Power button | 6. RJ45 (Ethernet) port |
| 3. Display ports 1.2 (2) | 7. DC in jack -4.5 mm |
| 4. USB 3.0 ports (3) | 8. Security lock slot |

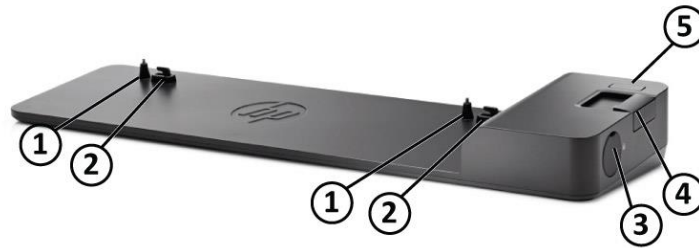
Components

Ports	4 USB 3.0 ports (3 std, 1 powered)
	1 RJ45 Ethernet port (10/100/1000)
	1 Security lock slot
	1 VGA port
	2 Display port 1.2
	1 Microphone in
	1 Headphone out
	1 DC in jack - 4.5mm

Note: The WiGig-compatible notebook or tablet must be positioned within 1.2 m (4 ft) and without obstruction in the line of sight of the wireless dock. HP Advanced Wireless Docking is compatible with the HP Elite x2 1011 G1 with an optional installed Intel® Tri Band Wireless AC with WiGig Combo card available at the time of purchase.

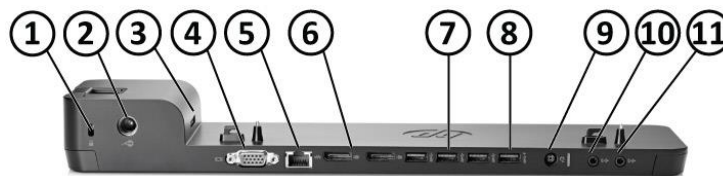
Technical Specifications

HP UltraSlim Docking Station – Front side



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|--|----------------------|
| 1. Docking posts | 4. Connection button |
| 2. Locking mechanism | 5. Power on/off |
| 3. Docking station cable lock slot (lock not included) | |

HP UltraSlim Docking Station – Rear side



- | | |
|--|------------------------------|
| 1. Lock slot (lock not included) | 7. USB 3.0 ports (3) |
| 2. Docking station cable lock slot (lock not included) | 8. USB 3.0 charging port (1) |
| 3. Side docking connector | 9. Power connector |
| 4. VGA port | 10. Line in jack |
| 5. LAN/Ethernet port | 11. Line out jack |
| 6. DisplayPort 1.2 (2) | |

Front Components

Docking posts (2)	Align and secure the computer for proper connection to the docking station
Computer connect/ release mechanisms (2)	Connect and release the computer when you press the connection button
Docking connector	Docking connector for notebook
Connect button	Secures and releases the computer Slide in to secure the computer Slide out to release the computer
LEDs	AC present: aqua white; Dock connected: white; two RJ45 LEDs: amber/green

Rear Components

AC power port	Energy-efficient 65W Smart AC adapter features integrated surge protection to help against power
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Technical Specifications

	fluctuations.
Integrated cable lock slot	Supports the HP Docking Station Cable Lock with a simplified locking mechanism. Gives you two security options: lock the docking station only (which also prevents access to the Station drive bay); or lock both the docking station and your notebook for additional security. Also supports an industry standard notebook lock.
Network connectors	RJ-45 / Ethernet pass thru
USB ports	3 USB 3.0 ports, 1 USB 3.0 charging port
Audio connectors	Line-In; Line-Out
Other connectors	VGA, DisplayPort 1.1a (DP 1.2 capable)

NOTE: Your computer, docking station, and monitor must all support USB 3.0 and DisplayPort 1.2 to benefit from the advanced speeds or features that these technologies provide. If one of the devices does not support these technologies, you will still have USB 2.0 and DisplayPort 1.1 functionality.

Technical Specifications

	HP UltraSlim Docking Station
Dimensions (H x W x D)	1.7 x 14.5 x 4.2 in (4.4 x 36.8x 10.7 cm)
Weight	1.69 lb (0.76 kg)
Stand-alone power requirements	
Normal Operating Voltage	18.5 V
Average Operating Power	18.5 W
Max Operating Power	< 65 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
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	125 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Option Kit Contents	HP UltraSlim Docking Station, AC power adapter, documentation

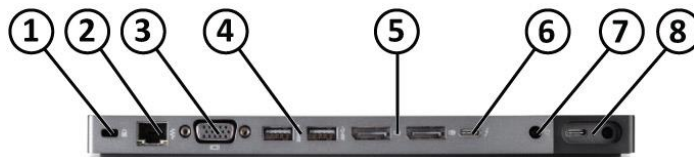
Technical Specifications

HP Elite Thunderbolt 3 Dock and HP ZBook Thunderbolt 3 Dock – Front side



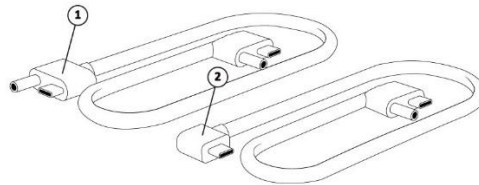
1. Power button
2. USB 3.0 ports (2)
3. Headphone/microphone combo jack

HP Elite Thunderbolt 3 Dock and HP ZBook Thunderbolt 3 Dock – Rear side



1. Security lock slot
2. Ethernet port
3. VGA port
4. USB ports (2)
5. DisplayPorts (2)
6. USB-C™ port
7. Power connector for dock 4.5mm
8. Thunderbolt™/ power cable

Cables Types - HP Elite Thunderbolt 3 Dock and HP ZBook Thunderbolt 3 Dock



1. USB-C™ with Thunderbolt 3™ power cable for HP ZBooks with Thunderbolt™ (0.5 meter cable length). A 1 meter cable available separately.
2. USB-C™ with Thunderbolt 3™ power cable for HP Elite Notebooks and Tablets (0.5 meter cable length)

Technical Specifications

HP Elite 90W Thunderbolt 3 Dock 1DT93AA
HP ZBook 150W Thunderbolt 3 Dock P5Q58AA
HP ZBook 200W Thunderbolt 3 Dock P5Q61AA

Front Components

Power button	Turns on the power to the computer
USB 3.0 ports	Two; allows you to connect to standard USB devices
Audio connector	Combo audio mic/headphones

Rear Components

AC power port	Energy-efficient 90W/150W/200W Smart AC adapters features integrated surge protection to help against power fluctuations.
Powered USB 3.0 port	One; allows you to connect to select USB devices
USB 3.0 ports	One; allows you to connect to standard USB devices
USB-C port	One; provides external device charging up to 15 watts.
Video connectors	Two DisplayPort 1.2 ports, one VGA, One Thunderbolt™/Power Cable
Power connectors	One Thunderbolt™/Power combination cable connector, one 4.5mm and one 7.4mm power inputs
Cable lock slot	Supports HP Cable Locks including the HP Dual Head Cable Lock
Network connectors	Ethernet port
Docking cable	Thunderbolt 3™ power cable connects the computer to the docking station
Other docking cables	HP ZBook Thunderbolt 3 Cable 1m (Z4P20AA); only compatible with HP ZBook 150W and 200W Thunderbolt 3 Docks; sold separately HP Elite Thunderbolt 0.5m Cable (2TE45AA); only compatible with HP Elite 90W Thunderbolt 3 Dock; sold separately

NOTE: Your Notebook must support Thunderbolt 3 to enable the docking station. Docking station, and monitor must all support USB-C, USB 3.0 and DisplayPort 1.2 to benefit from the advanced speeds or features that these technologies provide. If one of the devices does not support these technologies, you will still have USB 2.0 and DisplayPort 1.1 functionality. To support dual 4k monitors, connect one monitor via DisplayPort and one via the USB-C connector and a USB-C to DP dongle. Dual 2k monitors can be supported using both DisplayPorts.

Technical Specifications

HP Elite 90W Thunderbolt 3 Dock

Dimensions	9.06 x 2.24 x .69 in 230 x 57 x 17.5 mm(w/ feet)
Weight	.5 lb (220-227g)
Stand-alone power requirements	
Normal Operating Voltage	19.5V
Average Operating Power	0.368W
Max Operating Power	90W
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
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	125 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Option Kit Contents	HP Elite 90W Thunderbolt 3 Dock, Thunderbolt/AC power cable, 90W A/C

Technical Specifications

HP ZBook 150W Thunderbolt 3 Dock

Dimensions	9.06 x 2.24 x .69 in 230 x 57 x 17.5 mm(w/ feet)
Weight	.5 lb (220-227g)
Stand-alone power requirements	
Normal Operating Voltage	19.5V
Average Operating Power	0.29W
Max Operating Power	150W
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
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	125 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Option Kit Contents	HP ZBook 150W Thunderbolt 3 Dock, Thunderbolt/AC power cable, 150W A/C power adapter, documentation

Technical Specifications

HP ZBook 200W Thunderbolt 3 Dock

Dimensions	9.06 x 2.24 x .69 in 230 x 57 x 17.5 mm(w/ feet)
Weight	.5 lbs (220-227g)
Stand-alone power requirements	
Normal Operating Voltage	19.5V
Average Operating Power	0.368W
Max Operating Power	200W
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
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	125 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Option Kit Contents	HP ZBook 200W Thunderbolt 3 Dock, Thunderbolt/AC power cable, 200W A/

Technical Specifications

Compatibility

HP Ultra-light Docking Stations are compatible with HP EliteBook Notebook and Tablet PCs as follows:

Docking Station

HP USB Travel Dock
HP Advanced Wireless Docking Station
HP Elite USB-C Docking Station
HP UltraSlim Docking Station

Compatible Notebooks

All HP notebooks with a powered USB-A port
HP Elite x2 1011 G1***
HP Elite x2 1012, HP Pro Tablet 608 G1, HP EliteBook Folio G1
HP EliteBook 820 G1-G4, 850 G1-G4, 840 G1-G4, 1020 G1, 1040 G1-G3
HP EliteBook 720 G1-G2, 740 G1-G2, 750 G1-G2
HP EliteBook 725 G2-G4, 745 G2-G4, 755 G2-G4
HP ProBook 640 G2-G3
HP EliteBook Folio 9480m, 9470m
HP EliteBook Revolve 810 G1, G3
HP Pro x2 612 G1
HP ZBook 14, HP ZBook 15U G3 Mobile Workstation,
HP Elite x2 1012 G1-G2, HP EliteBook Folio G1, HP EliteBook x360 1030 G2
HP ZBook 15 G3- G4, HP ZBook Studio G3- G4, HP ZBook x2
HP ZBook 17 G3-G4

HP Elite 90W Thunderbolt 3 Dock

HP ZBook 150W Thunderbolt 3 Dock
HP ZBook 200W Thunderbolt 3 Dock

NOTE: Your computer, docking station, and monitor must all support USB 3.0 and DisplayPort 1.2 to benefit from the advanced speeds or features that these technologies provide. If one of the devices does not support these technologies, you will still have USB 2.0 and DisplayPort 1.1 functionality.

***The WiGig-compatible notebook or tablet must be positioned within 1.2 m (4 ft) and without obstruction in the line of sight of the wireless dock. HP Advanced Wireless Docking is compatible with the HP Elite x2 1011 G1 with an optional installed Intel Tri Band Wireless AC with WiGig Combo card available at the time of purchase.

Service and Support

HP Ultra-light Docking Stations are supported by a one-year limited warranty. Additional support is available 24 hours a day, seven days a week by phone as well as online support forums.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

Summary of changes

Date of change	Version 1 to 2		Description of change
December 17, 2014	V11 to V12	Added	Added the HP Advanced Wireless Docking Station and specs to file.
January 23, 2015	V12 to V13	Updated	Computability for HP UltraSlim Docking
April 24, 2015	V13 to V14	Removed	2013 Ultra Slim Docking Station D9Y32AA
April 28, 2015	V14 to V15	Added	Ultra Slim Docking Station D9Y32AA
		Removed	HP UltraSlim Docking Station B9C87AA
September 24, 2015	V15 to V16	Added	New docking stations listed below HP Elite 45W Thunderbolt 3 Dock P5Q54AA HP ZBook 150W Thunderbolt 3 Dock P5Q58AA HP ZBook 200W Thunderbolt 3 Dock P5Q61AA
		Removed	HP 2570p Docking Station A9B77AA HP 2740 Ultra-Slim Expansion Base WA995AA
November 20, 2015	V16 to V17	Updated	Normal Operating Voltage from 19.7v to 19.5v for HP Elite 65W Thunderbolt 3 Dock HP ZBook 150W Thunderbolt 3 Dock HP ZBook 200W Thunderbolt 3 Dock
February 10, 2015	V17 to V18	Added	HP USB C Travel Dock TOK29AA HP USB Travel Dock TOK30AA Added USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum to copyright statement
February 26, 2016	V18 to v19		Updated HP USB Travel Dock TOK30AA dims
March 10, 2016	V19 to v20	Added	HP Elite USB-C Dock T3V74AA
May 12, 2016	V20 to v21	Changed	UltraSlim Docking Station rear picture
November 3, 2016	V21 to v22	Added	HP ZBook Thunderbolt 3 1m Cable; only compatible with HP ZBook 150W and 200W Thunderbolt 3 Docks. (Z4P20AA) to HP ZBook 150W Thunderbolt 3 Dock P5Q58AA & HP ZBook 200W Thunderbolt 3 Dock P5Q61AA
September 22, 2017	V22 to v23		HP USB-C Mini Dock Resolution updated

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