

### Overview

#### HP Thunderbolt 4 Ultra 180W G6 Dock

(with Thunderbolt 4 cable shown)



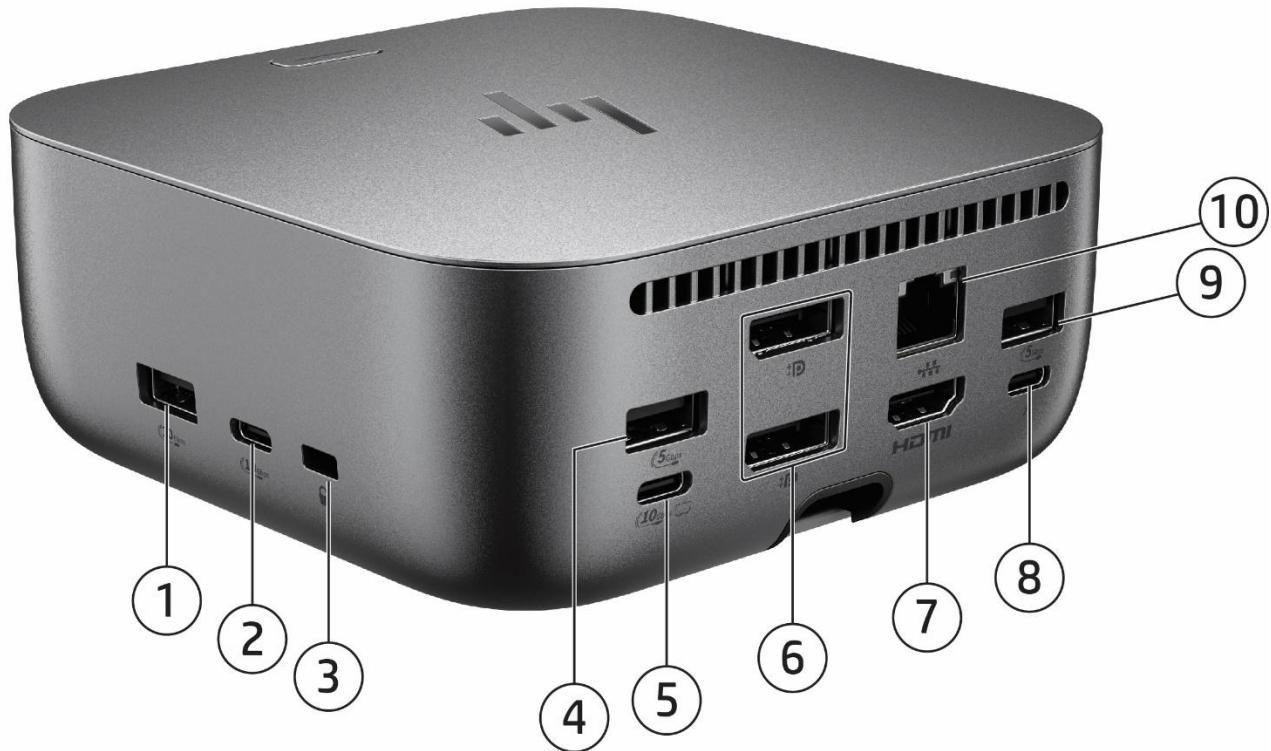
1. (1) USB Type-A 3.2 Gen 2 (10 Gbps) charging port
2. (1) USB Type-A 3.2 Gen 2 (10 Gbps) charging port
3. (1) Mechanical power button with RGB LED<sup>1</sup>
4. (1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out (15W)
5. (1) Thunderbolt 4 cable (40 Gbps) to connect to host system<sup>2</sup>

1. The dock power button may support non-HP notebooks that have implemented USB Power Delivery specification to support Extended Alert messages.

2. Up to 180W power delivery through the Thunderbolt 4 cable available on PC's that support PD 3.1.

### Overview

#### HP Thunderbolt 4 Ultra 180W TAA G6 Dock



1. (1) USB Type-A 3.2 Gen 2 (10 Gbps) charging port
2. (1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out (15W)
3. (1) Nano security lock slot
4. (1) USB Type-A 3.2 Gen 1 (5 Gbps) charging port
5. (1) USB Type-C 3.2 Gen 2 DisplayPort Alt Mode
6. (2) DisplayPort 1.4
7. (1) HDMI 2.1 port
8. (1) Thunderbolt 4
9. (1) USB Type-A 3.2 Gen 1 (5 Gbps) charging port<sup>1</sup>
10. (1) Ethernet port (2.5 Gbps)<sup>1</sup>

1. Requires infrastructure that supports 2.5GB Ethernet speeds.

### Overview

#### HP Thunderbolt 4 Ultra 180W TAA G6 Dock



1. (1) Thunderbolt 4 cable connector
2. Bottom cover latch
3. (1) RGB LED bar

### Technical Specifications

Components	
<b>Part Number</b>	HP Thunderbolt 4 Ultra 180W G6 Dock - 9X481UT
<b>Dimensions (HxWxD)</b>	4.77 x 4.77 x 2 in (121.2 x 121.2 x 50.5 mm)
<b>Weight</b>	1.43-1.76 lb (0.65-0.8 kg)
<b>Cable Type</b>	Thunderbolt™ 4 <sup>1</sup>
<b>Cable Length</b>	1 m (3.2 ft)
<b>Security</b>	HP Wolf Security <sup>2</sup> with HP Sure Start <sup>3</sup>
<b>Supported Operating Systems<sup>4</sup></b>	Windows 10 and above ChromeOS macOS Linux ThinPro
<b>Supported Platforms<sup>5</sup></b>	Tested and supported on select HP commercial PCs. For HP notebook compatibility please visit - <a href="https://pcb.inc.hp.com/webapp/#!/us-en">https://pcb.inc.hp.com/webapp/#!/us-en</a> and search by notebook. Tested and supported on select 3 <sup>rd</sup> party PCs. Contact your local sales representative to learn more.
<b>Supported HP Quick Connect Platforms</b>	HP Elite x360 830 13-inch G11 2-in-1 Notebook PC HP EliteBook 830 13-inch G11 Notebook PC HP EliteBook 840 14-inch G11 Notebook PC HP EliteBook 860 16-inch G11 Notebook PC HP ZBook Firefly 14-inch G11 Mobile Workstation PC HP ZBook Firefly 16-inch G11 Mobile Workstation PC HP Elite x360 1040 14-inch G11 2-in-1 Notebook PC HP EliteBook 1040 14-inch G11 Notebook PC HP ZBook Power 16-inch G11 Mobile Workstation PC HP ProBook 440 14-inch G11 Notebook PC HP ProBook 460 16-inch G11 Notebook PC HP EliteBook 630 13.3-inch G11 Notebook PC HP EliteBook 640 14-inch G11 Notebook PC HP EliteBook 660 16-inch G11 Notebook PC HP EliteBook X Flip G1i 14-inch Notebook Next Gen AI PC HP EliteBook X G1i 14-inch Notebook Next Gen AI PC HP EliteBook 8 Flip G1i 13 Notebook PC HP EliteBook 8 G1i 13 Notebook PC HP EliteBook 8 G1i 14 Notebook PC HP EliteBook 8 G1i 16 Notebook PC HP EliteBook 8 G1i 14-inch Notebook Next Gen AI PC HP EliteBook 8 G1i 16-inch Notebook Next Gen AI PC HP ZBook 8 G1i 14-inch Mobile Workstation PC HP ZBook 8 G1i 16-inch Mobile Workstation PC HP ProBook 4 G1i 14 Notebook PC HP ProBook 4 G1i 16-inch Notebook AI PC HP EliteBook 6 G1i 13 Notebook PC

### Technical Specifications

	HP EliteBook 6 G1i 14 Notebook PC HP EliteBook 6 G1i 16 Notebook PC HP EliteBook X G1a 14-inch Notebook Next Gen AI PC HP ZBook Ultra G1a 14-inch Mobile Workstation PC
<b>Systems Management</b>	System network manageability in any power state (HP with HP)
<b>Top Components</b>	Mechanical power button with RGB LED indicator to power or wake host system <sup>6</sup>
<b>Front Components</b>	(1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out (15W) (1) RGB LED bar
<b>Right Side Components</b>	(1) USB Type-A 3.2 Gen 2 (10 Gbps) port with charging (1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out (15W) (1) Nano security lock slot
<b>Left Side Components</b>	(2) USB Type-A 3.2 Gen 2 (10 Gbps) port with charging
<b>Back Components</b>	(2) USB Type-A 3.2 Gen 1 (5 Gbps) ports with charging (1) USB Type-C 3.2 Gen 2 DisplayPort (2) DisplayPort 1.4 (1) HDMI 2.1 (1) Thunderbolt 4 (1) Ethernet port (2.5 Gbps) (1) Thunderbolt 4 cable (40 Gbps) to connect to host system
<b>Dock LED<sup>7</sup></b>	Power button: RGB LED: White, Blue, Amber, Green, Red LED Bar: RGB LED: White, Blue, Amber, Green, Red
<b>Network Manageability Features</b>	HP CMSL Disconnected Firmware updates eTag PXE Boot Wake on LAN (from the Off, Sleep or Hibernation States <sup>8</sup> MAC address pass-through (from the On, Off, Sleep or Hibernation States) <sup>9</sup> WLAN-LAN Switching Disable LAN Event messaging Intel(R) Wired vPro
<b>Networking/Communications</b>	WLAN Realtek RTL8721DM 802.11a/b/g/n + Bluetooth®
<b>Management Software<sup>10</sup></b>	Poly Lens <sup>11,16</sup> (Cloud, Desktop)
<b>Software Included<sup>10</sup></b>	HP Quick Connect <sup>12</sup> myHP
<b>Power to System</b>	Up to 180W on HP and non-HP systems that support PD 3.1 <sup>13</sup>
<b>External Displays Supported</b>	Up to 3 external displays and 1 PC display or Up to 4 external displays
<b>Maximum Resolution Supported<sup>14</sup></b>	Up to 8K
<b>Maximum Refresh Supported<sup>14</sup></b>	Up to 360Hz

### Technical Specifications

#### Video Resolution Supported<sup>14</sup>

Non-Thunderbolt with Multi-Function PCs:

- (1) 4K UHD @120Hz\*
- (2) QHD @120Hz\*
- (3) FHD @120Hz\*
- (1) FHD @360 Hz

Non-Thunderbolt with High-Resolution PCs:

- (2) 4K UHD @120Hz\*
- (3) QHD @120Hz\*
- (2) FHD @360hz\*
- (1) QHD @360hz\*

Thunderbolt with dual DisplayPort streams:

- (4) 4K UHD @60Hz\*
- (2) 4K UHD @120Hz\*
- (3) QHD @120Hz\*
- (2) FHD @360hz\*
- (1) QHD @360hz\*
- (1) 8K @60Hz\*

Thunderbolt with single DisplayPort stream:

- (4) 4K UHD @60Hz\*
- (2) 4K UHD @120Hz\*
- (3) QHD @120Hz\*
- (2) FHD @360hz\*
- (1) QHD @360hz\*
- (1) 8K @60Hz\*

**\*NOTE:** Requires DisplayPort 1.4 support with Display Stream Compression

<b>Certifications</b>	Intel® Thunderbolt™ 4
<b>Operating Temperature (Celsius)</b>	0°C to 35°C
<b>Operating Temperature (Fahrenheit)</b>	32°F to 95°F
<b>Non-operating Temperature (Celsius)</b>	-20°C to 60°C
<b>Non-operating Temperature (Fahrenheit)</b>	-4°F to 140°F
<b>Operating Humidity</b>	10% to 90%
<b>Non-operating Humidity</b>	5-95%
<b>Operating Altitude</b>	-15 m to 3,048 m
<b>Non-operating Altitude</b>	-15 m to 12,192m
<b>Security Slot Type</b>	1x Nano security slot <sup>15</sup>
<b>Warranty</b>	3-0-0

### Technical Specifications

#### What's in the Box

HP Thunderbolt 4 Ultra 180W G6 Dock, 230W power adapter, power cord, product notice, warranty card.

#### Country of Origin

9X481UT: China, Thailand, Mexico

1. For full data and video capability, the PC must support either: DisplayPort alt mode, Thunderbolt 3 alt mode, or USB4 through its USB-C port. Charging and port replication are supported on notebooks that have implemented the USB-C Power Delivery specifications. HP Quick Connect, Wake-on LAN from warm and cold dock, Wake-on LAN from S4/S5, and MAC Address Pass-Through, S0, S3, S4, S5 warm and cold dock features only function on HP or HP supported notebooks. HP does not provide ethernet and audio drivers on Mac PCs. Power button to turn off or to wake the system depends on implementation of the related and optional Power Delivery specification.
2. HP Wolf Security for Business requires Windows 10 or 11 Pro and higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
3. Based on HP's internal analysis of docking stations that are Thunderbolt™ 4, have auto validating & self healing firmware, Meet NIST 800-173 requirements, the ability to disable the RJ-45 and a BIOS MAPT authorized list. HP Sure Start on HP Thunderbolt G6 dock supports firmware integrity verification and recovery during dock start-up and disconnect. It does not include real-time and runtime protections or Microsoft SCCM integration typically found on HP Sure Start in HP notebooks.
4. Operating systems supported: Windows 10 22H2 and up, Win 10 IoT Enterprise LTSC 2021, Windows 11 23H2 and up, ChromeOS M133 and up, Ubuntu Linux 22.04 LTS with 5.15 kernel, ThinPro OS 8.0 and MacOS Sonoma 14. Not all features work with all operating systems, ask your sales representative about compatibility with your PC. Linux, ChromeOS, MacOS, and ThinPro OS testing currently underway and expected to be completed after launch.
5. Our docks are tested and validated with most HP USB-C and Thunderbolt 4 systems as well as tested with select 3rd party systems like Dell, Lenovo, and Apple. Contact your local sales representative to learn more.
6. The dock power button may support non-HP notebooks that have implemented USB Power Delivery specification to support Extended Alert messages.
7. Please refer to the User Guide for LED light behaviors. The User Guide can be found on <https://support.hp.com/>.
8. Your computer might support Wake on LAN from the Off, Sleep or Hibernate States, or only when the computer is On or in Sleep.
9. Your computer might support MAC address pass-through the On, Off, Sleep or Hibernate States, or only when the computer is On or in Sleep. Thunderbolt™ host systems require Thunderbolt™ software (minimum SW17.x). Ethernet drivers need to be installed separately on non-HP Windows systems for headset auto switching functionality. Drivers available on HP website. For Apple PCs, HP does not provide ethernet and audio drivers. Firmware updates on Window-based host systems only. Certain features are not functional on non-HP supported nor non-HP notebooks:
  - Power button to turn on or wake the system.
  - Wake on LAN from warm and cold dock.
  - Wake on LAN from S4/S5.
  - MAC Address pass-through S0, S3, S4, S5 warm and cold dock.
10. Certain feature(s) not available on TAA docks.
11. Poly Lens is a cloud-based device management solution that provides actionable insights and analytics around unified communications endpoints like Poly voice, video, headset devices, and select HP docking stations and can be sold as a stand-alone service. Internet access is required. Not available on TAA versions. Visit [lens.poly.com](https://lens.poly.com) to set-up an account.
12. HP Quick Connect must be enabled on the PC's BIOS and on the dock. HP Quick Connect is available on select HP G11 Intel and G12 Intel and AMD PCs. Bluetooth required. Not available on TAA versions. Contact your local sales representative to learn more.
13. Up to 180W power delivery through the Thunderbolt 4 cable available on PC's that support PD 3.1.
14. Video resolution and support is dependent on the maximum capability of the notebook.
15. Compatible with the following HP locks: 63B28AA HP Nano Combination Cable Lock, 63B31AA HP Essential Nano Combination Cable Lock.
16. The European Union Data Act is a compliance regulation concerning connected devices placed on the European Union market. Customers who own HP devices sold in this market can request the data from their devices. For more information, see [https://support.hp.com/us-en/document/ish\\_12884929-12885022-16](https://support.hp.com/us-en/document/ish_12884929-12885022-16) or visit <https://compliance-euda.hp.com/>

### Technical Specifications

HP Thunderbolt™ G6 Dock video resolution specifications		
Video resolution and support is dependent on the maximum capability of the notebook. (All Thunderbolt resolutions assume at least dual DP streams. All high resolution mode resolutions assume 4 DP streams)		
Host Specification		
DP 1.2 Thunderbolt™ host:		<p><i>Single display:</i> (1) 8k @30Hz running multiple tiles</p> <p><i>Dual displays:</i> (2) 4K UHD @60Hz</p> <p><i>Triple displays:</i> (3) QHD @30Hz</p> <p><i>Quad displays:</i> (3) QHD @30Hz + (1) FHD @30Hz</p>
DP 1.2 USB-C host:	<b>Multi-function mode</b>	<p><i>Single display:</i> (1) 4K DCI @30Hz</p> <p><i>Dual displays:</i> (1) 4K DCI @30Hz + (1) FHD @30Hz</p> <p><i>Triple displays:</i> (3) FHD @30Hz</p>
	<b>High resolution mode</b>	<p><i>Single display:</i> (1) 4K DCI @60Hz</p> <p><i>Dual displays:</i> (2) 4K DCI @30Hz</p> <p><i>Triple displays:</i> (3) QHD @30Hz</p>
Host Specification		
DP 1.3/1.4 Thunderbolt host:		<p><i>Single display:</i> (1) 8k @30Hz running multiple tiles</p> <p><i>Dual displays:</i> (2) 4K UHD @60Hz</p> <p><i>Triple displays:</i> (2) 5K single cable@30Hz + (1) QHD @30Hz</p> <p><i>Quad displays:</i> (4) 4k UHD @30Hz</p>
DP 1.3/1.4 USB-C host:	<b>Multi-function mode</b>	<p><i>Single display:</i> (1) 5k Ultra Wide @60Hz or (1) 4K DCI @60Hz</p> <p><i>Dual displays:</i> (2) 4k UHD@30Hz</p> <p><i>Triple displays:</i> (3) QHD @30Hz</p>
	<b>High resolution mode</b>	<p><i>Single display:</i> (1) 5k Ultra Wide @60Hz or (1) 8k @30Hz running multiple tiles</p> <p><i>Dual displays:</i> (2) 4K UHD @60Hz</p> <p><i>Triple displays:</i> (2) 5K single cable@30Hz + (1) QHD @30Hz</p>
Host Specification		
DP 1.4 with DSC Thunderbolt host:		<p><i>Single display:</i> up to (1) 8K Thunderbolt with multiple tiles @60Hz</p> <p><i>Dual displays:</i> (2) 4K DCI @60Hz</p> <p><i>Triple displays:</i> (3) 4K@60Hz</p> <p><i>Quad displays:</i> (4) 4K DCI @60Hz</p>
DP 1.4 with DSC USB-C host:	<b>Multi-function mode</b>	<p><i>Single display:</i> (1) 8k @30Hz running multiple tiles</p> <p><i>Dual displays:</i> (2) 4K UHD @60Hz</p> <p><i>Triple displays:</i> (3) QHD @30Hz</p> <p><i>Quad displays:</i> (3) QHD @30Hz + (1) FHD @30Hz</p>
	<b>High resolution mode</b>	<p><i>Single display:</i> (1) 4K DCI @30Hz</p> <p><i>Dual displays:</i> (1) 4K DCI @30Hz + (1) FHD @30Hz</p> <p><i>Triple displays:</i> (3) FHD @60Hz</p>

### Summary of changes

Date of change	Version		Description of change
April 7, 2025	V1 to V2	Update	General arrangement
April 9, 2025	V2 to V3	Correction	Supported HP QC Platforms, Management Software and footnote #10 corrected
May 7, 2025	V3 to V4	Update	Web to Cloud on Management software
September 11, 2025	V4 to V5	Addition	Footnote 16 added
October 30, 2025	V5 to V6	Addition	Mexico added to COO
	V6 to V7		
	V7 to V8		
	V8 to V9		
	V9 to V10		
	V10 to V11		
	V11 to V12		
	V12 to V13		
	V13 to V14		
	V14 to V15		
	V15 to V16		

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