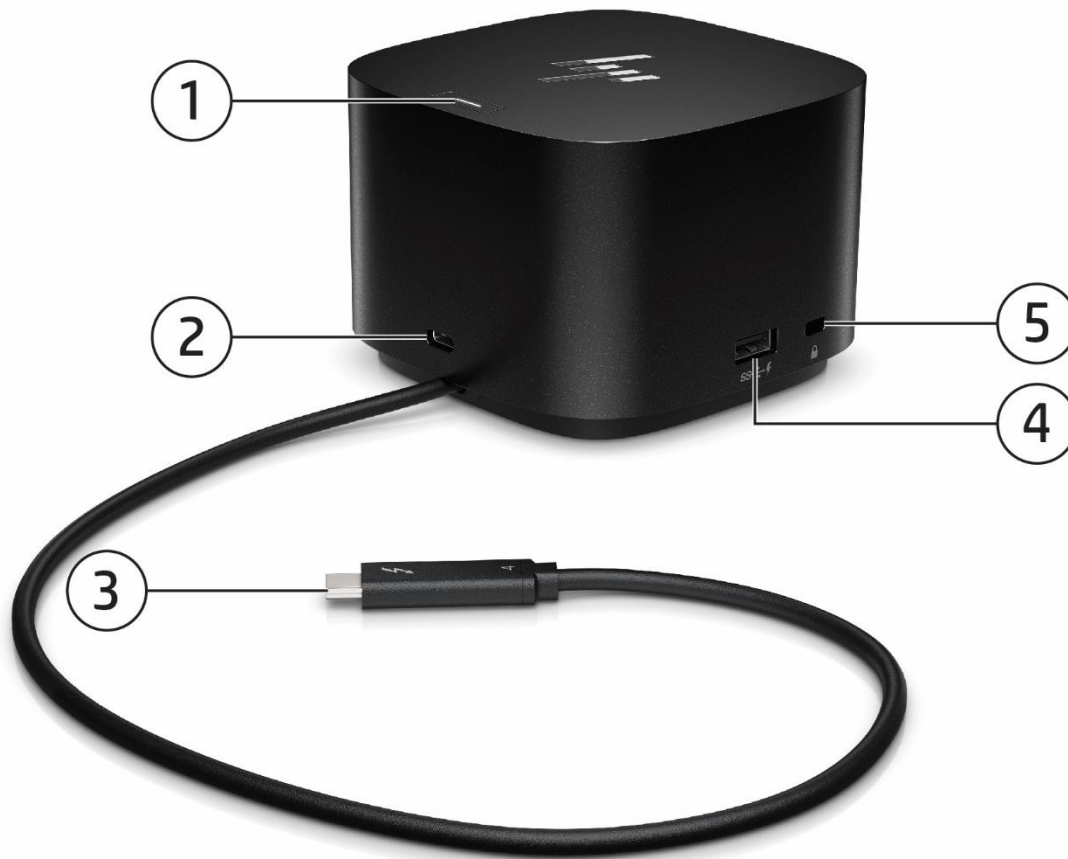


Overview

HP Thunderbolt G4 Dock - 120W/280W (120W version with USB-C alt mode cable shown)



1. (1) Mechanical power button¹
2. (1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out 15W
3. (1) USB-C alt-mode cable (delivering up to 100W power)²
4. (2) USB-A 3.2 Gen 2 (10 Gbps; power output: 7.5W) charging port - 1 on each side
5. (1) Standard Kensington lock slot

1. The dock power button is not functional when connected to non-supported HP notebooks or non-HP notebooks.

2. 75W delivery to non-HP laptops.

Overview

HP Thunderbolt G4 Dock - 120W/280W (280W version with cable combo shown)



1. (2) USB-A 3.2 Gen 2 (10 Gbps; power output: 7.5W) charging port - 1 on each side
2. (1) 4.5mm power barrel (delivering up to 230W power to host)
3. (1) USB-C alt-mode cable (delivering up to 100W power)²
4. (1) USB Type-C 3.2 Gen 2 (10 Gbps) port with data and power out 15W
5. (1) Mechanical power button

1. The dock power button is not functional when connected to non-supported HP notebooks or non-HP notebooks.
2. 75W delivery to non-HP laptops.

Overview



- | | |
|---|---|
| 1. (2) USB-A 3.2 Gen 1 (5 Gbps each) ports | 5. (1) Thunderbolt 4 port |
| 2. (2) DisplayPort 1.4 ports ¹ | 6. (1) Power barrel port (120W or 280W) |
| 3. (1) USB-C 3.2 Gen 2 DisplayPort ¹ | 7. (1) Indicator light |
| 4. (1) HDMI 2.0 port | 8. (1) Ethernet port: 2 internal NIC cards to support 1Gb and 2.5Gb Ethernet ² |

1. The lower DisplayPort port and USB-C 3.2 Gen 2 DisplayPort port are mutually exclusive. Only one may be used at a time. Refer to Figure C in the [HP Thunderbolt Dock G4 Features and Troubleshooting](#) technical white paper.

2. Requires infrastructure that supports 2.5Gb Ethernet speeds.

Technical Specifications

Components	
Part Number	HP Thunderbolt 120W G4 Dock - 4J0A2AA/4J0A2UT/4J0A2ET HP Thunderbolt 280W G4 Dock w/Combo Cable - 4J0G4AA/4J0G4UT/4J0G4ET
Dimensions (HxWxD)	3.9 x 3.9 x 2.7 in (98 x 98 x 68 mm)
Weight	120W: 1.68 lbs (762 g) 280W: 1.76 lbs (798.3 g)
Security	HP Sure Start ¹
Supported Operating Systems²	Windows 11 21H2 Windows 11 22H2 Windows 10 19H1 Windows 10 19H2 Windows 10 20H1 Windows 10 20H2 Windows 10 21H1 Windows 10 22H2 ChromeOS v92.0.4515.157 Linux Ubuntu 20.04 LTS 5.14 Kernel ThinPro 8.0 Windows 10 IoT Enterprise LTSC 2021 macOS Monterey v12.0 macOS Big Sur 11.5.2
Systems Management	Wired vPRO Management
Top Components	Mechanical power button with LED indicator to power or wake host system ³
Front Components	(1) USB Type-C® 3.2 Gen 2 (10 Gbps) port with data and power out (15W) 4J0A2AA: (1) USB-C cable to connect to host system (0.8 m cable length) 4J0G4AA: (1) USB-C cable to connect to host system (0.8 m cable length) and (1) 4.5mm power barrel
Side Components	Right side: (1) Kensington Standard Lock Slot (2) USB-A 3.2 Gen 2 (10 Gbps; power output: 7.5W) charging port - 1 on each side
Back Components	(2) USB-A 3.2 Gen 1 (5 Gbps each) ports (1) HDMI 2.0 port (2) DisplayPort 1.4 ports (1) Power barrel port (120W or 280W) (1) Ethernet port: 2 internal NIC cards to support 1 Gb and 2.5 Gb Ethernet ⁴ (1) USB-C® 3.2 Gen 2 DisplayPort (1) Thunderbolt™ 4 port
Network Manageability Features	vPRO (wired) ⁴ eTag Disconnected Firmware updates PXE Boot Wake on LAN (from the Off, Sleep or Hibernation States ⁵) MAC address pass-through (from the On, Off, Sleep or Hibernation States ⁶)

Technical Specifications

	WLAN-LAN Switching
Networking	Supports 1 Gb and 2.5G Ethernet
Power to System	Up to 100W via USB-C with the 120W version Up to 230W on HP platforms with the 280W version via the combo cable Up to 75W via USB-C on non-HP platforms
External Monitor Support	For hosts that support DisplayPort 1.4 with Display Stream Compression: 4x FHD @ 60 Hz 4x QHD @ 60 Hz 4x 4K @ 60 Hz For hosts that support DisplayPort 1.3/1.4: 4x FHD @ 60 Hz 3x QHD @ 60 Hz 3x 4K @ 60Hz For hosts that support DisplayPort 1.2: 3x FHD @ 60 Hz 2x QHD @ 60 Hz 1x 4K @ 60Hz
Power Delivery (PD) Profiles	PD 3.0: 5V/5A, 9V/5A, 12V/5A, 15V/5A, 20V/5A
Supported Platforms	Tested and supported on select HP commercial notebooks. For HP notebook compatibility please visit: https://pcb.inc.hp.com/webapp/#!/us-en and search by notebook. Tested and supported on the following 3rd party notebooks: Apple MacBook Pro 13 2022 (M2), Dell Latitude 5540 2022 (11th Gen Intel® Core™), Dell Latitude 7430 2022 (12th Gen Intel® Core™), Dell XPS 13 2022 (12th Gen Intel® Core™), Lenovo ThinkPad X1 Carbon Gen 9 2021 (11th Gen Intel® Core™), Lenovo ThinkPad X1 Carbon Gen 10 2022 (12th Gen Intel® Core™).
Operating Voltage and Current	120W: Input 100 to 240V 1.7A 50 to 60Hz. Output is 19.5V at 6.15A 280W: Input 100 to 240V 1.7A 50 to 60Hz. Output is 19.5V at 14.35A
Temperature (operating)	0° C to 35° C (32° F to 95° F)
Relative Humidity Noncondensing (operating)	10 % to 90 %
Maximum Altitude Unpressurized (operating)	15 m to 3,048 m (~ 50 ft to 10,000 ft)
Cable Length	0.8 m
Security Slot Type	1x Kensington Lock Slot ⁷
Warranty	1-0-0
What's in the Box	Dock, power supply, power cord, warranty
Country of Origin	China and Taiwan

1. HP Sure Start on HP Thunderbolt G4 dock supports firmware integrity verification and recovery it does not include real-time and runtime protections or Microsoft SCCM integration typically found on HP Sure Start in HP notebooks.

Technical Specifications

2. Operating systems supported: Windows 10 19H1 and up, Win 10 IoT Enterprise LTSC 2021, Windows 11 21H2 and up, ChromeOS M101 and up, Ubuntu Linux 20.04 LTS with 5.14 kernel, ThinPro OS 8.0 and MacOS Big Sur 12.1. Not all features work with all operating systems, ask your sales representative about compatibility with your PC. Linux testing currently underway and expected to be completed after launch.

3. The dock power button is not functional when connected to non-supported HP notebooks or non-HP notebooks.

4. Requires infrastructure that supports 2.5 GB Ethernet speeds.

5. Your computer might support Wake on LAN from the Off, Sleep or Hibernate States, or only when the computer is On or in Sleep.

6. 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 MAC 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.

7. Compatible with the following HP locks: T1A62AA HP Keyed Cable Lock 10mm, T1A63AA HP Keyed Cable Lock 10mm (master), T1A64AA HP Dual Headed Keyed Cable Lock 10mm, T1A65AA HP Dual Headed Keyed Cable Lock 10mm (master), TOY16AA HP Essential Combination Lock, TOY15AA HP Combination Lock.

Technical Specifications

HP Thunderbolt™ G4 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:	Dual 4K @30Hz or dual 4K UHD @ 60Hz or (1) 6k TBT running multiple tiles Triple displays: (3) 2.5k @30Hz Quad displays: (3) 2.5k @30Hz + (1) FHD @ 30Hz
DP 1.2 USB-C host:	Multi-function mode Single display: (1) 4K DCI @ 30Hz Dual display: (1) 4K DCI @ 30Hz + (1) FHD @ 30Hz Triple displays: (3) FHD @30Hz
	High resolution mode Single display: (1) 4K DCI @60Hz Dual displays: (2) 4K DCI @ 30Hz Triple displays: (3) 2.5k @30
Host Specification	
DP 1.3/1.4 Thunderbolt host:	Single display: (1) 4K DCI @60Hz Dual displays: (2) 4K UHD @60Hz Triple displays: (2) 5K single cable@30Hz + (1) 2.5K@30Hz or (3) 4K DCI @ 30Hz
DP 1.3/1.4 USB-C host:	Multi-function mode Single display: (1) 5k Ultra Wide @60Hz or (1) 4K DCI @ 60Hz Triple displays: (3) 2.5K@ 30Hz
	High resolution mode Single display: (1) 5k Ultra Wide (5120X1440) @ 60Hz or (1) 8k single cable @ 30Hz Dual displays: (2) 4K UHD @60Hz or (2) 4K DCI @ 30Hz Triple displays: (3) 4K DCI @ 30Hz
Host Specification	
DP 1.4 with DSC Thunderbolt host:	Single display: up to (1) 8K Thunderbolt with multiple tiles @ 60Hz Dual displays: (2)4K DCI @ 60Hz or Triple displays: (3) 4K@ 60Hz up to (2) 5K single cable @30Hz + (1) 4K UHD @30Hz Quad displays: (4) 4K DCI @ 60Hz
DP 1.4 with DSC USB-C host:	Multi-function mode Single display: (1) 4K DCI @ 60Hz up to (1) 8K single cable @ 30Hz Dual displays: (2) 4K DCI @ 60 Hz up to (1) 5K dual cable + (1) 4K Triple displays: (3) 4K DCI @ 30Hz or (3) 4K UHZ @ 60Hz up to (2) 5K single cable@30Hz + (1) 4KUHD @30Hz
	High resolution mode Single display: upto (1) 8K dual @ 60Hz Dual displays: (2) 4K DCI @ 60Hz or up to (2) 5K single cable + (1) 4K UHD@ 60 Hz Triple displays: (3) 4K DCI @ 60Hz up to (2) 5K single cable + (1) 4K UHD

Summary of changes

Date of change	Version		Description of change
June 7, 2022	V1 to V2	Update	Call outs and tables generally corrected
June 15, 2022	V2 to V3	Removal	Dual displays: (2) 4K UHD @60Hz removed from DP 1.3/1.4 USB-C host Multi-function mode specs
June 27, 2022	V3 to V4	Correction	(2) USB-A 3.2 Gen 1 in side components row corrected to 10 Gbps
August 10, 2022	V4 to V5	Update	General update
November 15, 2022	V5 to V6	Update	External monitor support, Operating systems updated / Compatibility added.
January 9, 2023	V6 to V7	Update	HP Thunderbolt 120W G4 Dock part number updated
April 17, 2023	V7 to V8	Update	Security slot type updated and disclaimer added
April 27, 2023	V8 to V9	Update	Link activated and disclaimer reference point added to lock -page 5
September 7, 2023	V9 to V10	Update	HP Thunderbolt 120W G4 Dock PN corrected
November 7, 2023	V10 to V11	Update	Disclaimer added to rear view call outs image and compatibility changed to supported operating systems
February 12, 2024	V11 to V12	Update	Supported platforms section updated
	V12 to V13		
	V13 to V14		
	V14 to V15		
	V15 to V16		

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