

HP Thunderbolt G4 Dock



1. Backward compatible with USB-C® Alt mode, ports will work at USB-C® Alt mode speeds which are dependent on host specifications.
2. For USB-C® Alt mode, host PC must support Thunderbolt™ 3 or Thunderbolt™ 4 running a DP 1.4 DSC host.
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, have Port control, the ability to disable the RJ-45 and a BIOS MAPT authorized list.
4. 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.
5. For USB-C® alt mode functionality, host PC must support the DisplayPort™ Alt mode protocol through its USB-C® port. Charging and port replication is supported on notebooks that have implemented USB-C® Alt Mode industry specifications. Power button to turn on or wake the system, 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
6. Requires infrastructure to support 2.5Gb ethernet speeds.
7. Windows Management Instrumentation installation required. Requires Windows 10 or higher.

The Dock That Does It All

Boost your security, productivity, and connectivity with this Thunderbolt™ 4 dock. It protects your network and devices from the moment you log in, supports multi-OS compatibility¹, and can support up to four 4K displays². Ideal for ITDMs and hybrid workers, this dock also makes home or office device management easy.

The World's Most Secure Dock³

Feel safe and secure from the moment you log in. The HP Thunderbolt G4 Dock with HP Sure Start⁴ prevents hackers from using the dock to attack the network and the attached notebook. Everything connected to this dock is protected and meets full NIST 800-193 requirements.

Expanded Compatibility. Easy Connectivity

Focus on your work and not your compatibility¹ with a dock that works seamlessly with most notebooks and operating systems. Whether you use Windows, Mac, or Chrome OS—rigorous testing and certifications ensure that one USB-C® cable⁵ connects your device and peripherals without issue.

The Power To Be Productive

Multitask, create, and collaborate faster with a dock that supports up to four 4K displays through superfast Thunderbolt™ 4 technology² and has double the ethernet speed for faster downloads⁶. This dock also delivers up to 100W/230W of power—enough to charge most notebooks.

Device Management Made Easy

Manage your mixed fleet more efficiently with wired Intel® vPro® support that allows authorized administrators to remotely access and manage vPro® enabled notebooks using wired connections to make updates. IT Managers can also plan dock firmware updates anytime, even after the user disconnects through HP's One Click Installer⁷.

Features

Modern Device Manageability

With Intel® vPro® Active Management Technology, authorized administrators can remotely access notebooks using wired connections, even if turned off, to make updates.

Electronic Asset Management for Your Docks

Empower your IT to manage and track your docks by product name, serial number, and MAC Address from anywhere with the time-saving, easy-to-use Electronic Tag (eTag) asset management tool.¹

Thoughtful Product Packaging

HP is committed to reducing plastic in landfills by using recyclable, fiber-based, and sustainably sourced packaging² that meets recycling requirements, so it can stay out of the landfill³ when customers are finished with it.

One Cable. Two Power Options

With two power options (120W/280W) from one cable, you can power mainstream and high performance PCs alike with just one cable/dock.

We Test So You Can Rest

Rigorous testing⁴ helps assure dock compatibility across select HP notebooks and select Apple®, Dell, and Lenovo notebooks with USB-C® power ports.

More Ports. More Flexibility

More ports means more capabilities. With a TB4™, HDMI, two USB-C®, two DisplayPorts™, four USB-A 3.2 ports and an RJ45 port, you can connect multiple devices like a keyboard and mouse⁵.

1-year Limited Warranty

Get added peace of mind with a 1-year limited warranty that includes technical support, diagnostic services, and hardware replacement.



1. Windows Management Instrumentation installation required. Requires Windows 10 or higher.

2. 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic. Excludes plastic bags and plastic foam sheeting.

3. Recycling facilities not available in all locations.

4. Based on HP internal testing on select non-HP notebook models compatible with USB-C® industry standards. For HP notebook compatibility please visit - <https://pcb.inc.hp.com/webapp/#!/us-en> and search by notebook.

Certain Alt mode features are not supported, such as power button, MAC Address Pass-Through,

Wake-on LAN, and OOB Wake on LAN. Visit the HP Support page to determine your HP notebook's wattage and port specifications. Visit the support page of your non-HP notebook to determine its wattage and port specifications..

5. Comes with Power Cord.



Specifications



HP Thunderbolt G4 Dock

Part number	HP Thunderbolt 120W G4 Dock - 4J0A2AA/4J0A2UT/4J0A2ET HP Thunderbolt 280W G4 Dock w/Combo Cable - 4J0G4AA/4J0G4UT/4J0G4ET
Dimensions (H x W x D)	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
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 ⁷ (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 ⁷ (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 ⁵) 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
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™).

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.

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. 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.



Specifications

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

Supported operating systems⁷

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

Power delivery (PD) profiles

PD 3.0: 5V/5A, 9V/5A, 12V/5A, 15V/5A, 20V/5A

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 Slot⁸

Warranty

1-0-0

What's in the box

Dock, power supply, power cord, warranty

Country of origin

China and Taiwan

7. 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.

8. 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 and TOY15AA HP Combination Lock.



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
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
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) 4K UHD @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

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