

Technical Specifications

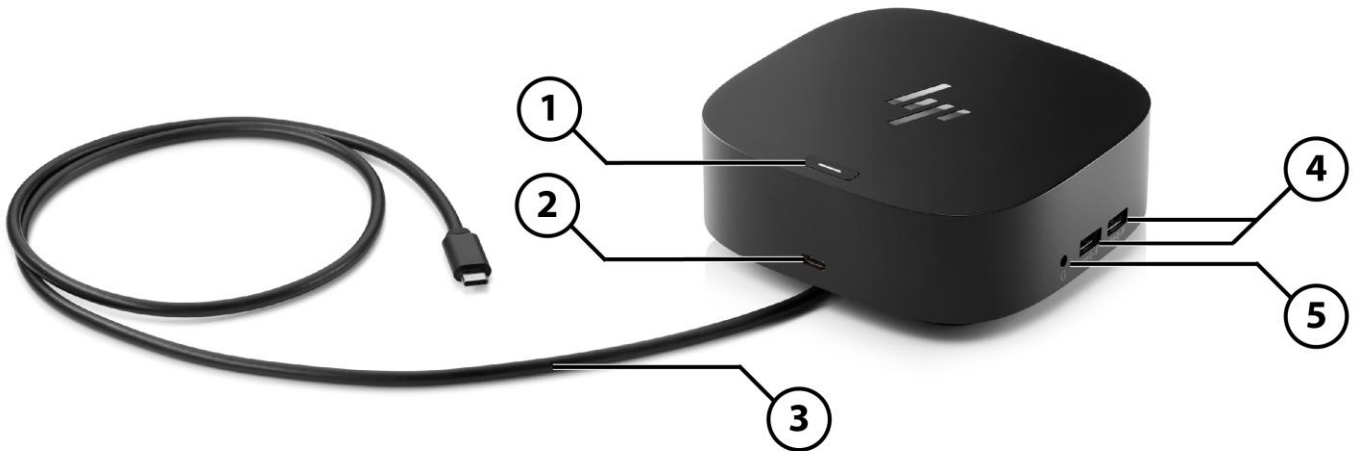
HP DOCK SOLUTIONS

Models

Docking Stations

HP USB-C Dock G5	5TW10AA
HP USB-C/A Universal Dock G2	5TW13AA
HP 4.5 mm and USB-C Dock Adapter G2	6LX61AA
HP Thunderbolt™ Dock 120W G2	2UK37AA
HP Thunderbolt™ Dock 230W G2	2UK38AA
HP Thunderbolt™ Dock G2 w/ Combo Cable	3TR87AA
HP Thunderbolt™ Dock 120W G2 w/Audio	3YE87AA
HP Thunderbolt™ Dock G2 Audio Module	3AQ21AA
HP USB-C® Dock G4	3FF69AA
HP USB-C® Universal Dock w/4.5mm Adapter	2UF95AA
HP USB-C® Universal Dock	1MK33AA
HP USB-C® Mini Dock	1PM64AA
HP USB Travel Dock	T0K30AA
HP UltraSlim Docking Station	D9Y32AA

HP USB-C Dock G5



Front and Side View

- | | |
|--|-----------------------------|
| 1. 1 LED power button | 4. 2 USB 3.0 charging ports |
| 2. 1 Type-C® USB 3.0 port with data and power out (15W) | 5. 1 Combo audio jack |
| 3. 1 USB-C® cable to connect to host system (1 meter length) | |

HP USB-C Dock G5



Back View

- | | | | |
|----|--------------------------|----|-----------------|
| 1. | 2 USB 3.0 charging ports | 4. | 1 HDMI 2.0 port |
| 2. | 2 DisplayPort™ 1.4 ports | 5. | 1 RJ45 port |
| 3. | 1 Standard lock slot | | |



Bottom View

1. Insert 4.5 mm barrel from included 120W power supply.

Technical Specifications

Components	
Part number	5TW10AA
Product dimensions (L x W x H)	4.80 x 4.80 x 1.77 in (122 x 122 x 45 mm)
Package dimensions (L x W x H)	7.63 x 6.18 x 6.57 in (194 x 157 x 167 mm)
Weight	1.49 lb (0.68 kg)
Top components	LED and power button to power or wake host system ¹
Front components	One Type-C® USB 3.0 port with data and power out (15W) One USB-C® cable to connect to host system (1 meter cable length)
Side components	Two USB 3.0 charging ports One combo audio jack
Back components	Two USB 3.0 charging ports Two DisplayPort™ 1.4 ports One RJ45 port One HDMI 2.0 port One standard lock slot
External monitor support	3 displays is the maximum displays supported, depending on the capabilities of the host machine. Triple 4K displays requires a DP 1.4 machine with DSC ² in high res mode.
Power to system	Up to 100W via USB-C® (up to 75W on non HP machines)
Power to host (USB-C PD)	5V , 9V, 10V, 12V, 15V, 20V all at 5A MAX
Operating systems¹	Win 7 Win 10 MacOS
Power Supply	120W
Power Barrel Connector	4.5mm

1. For USB-C® functionality, host PC must support the DisplayPort™ Alt mode protocol through its USB-C® port. Thunderbolt™-enabled notebooks will function at USB-C® speeds. Charging and port replication is supported on notebooks that have implemented USB-C® 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.

2. The DSC supported version and color format depends on GFX capability. DSC is disabled when display is attached to the VGA port or to an external DP2 VGA dongle.

Video Resolution (Continue on the next page)

This table shows which ports to use to achieve the display configuration. You must refer to the next table to see the limitations and requirements to achieve these resolutions.

For Chrome users, dual displays are supported at full HD. Triple displays are only supported on select Chromebox machines.

For Apple users, the maximum display resolution using Apple is one display on a DP 1.4 host at UHD@60Hz.

On an Apple DP 1.2 host you will get QHD~2.5K

	Display Configurations	Output ports
Single Display	(1) 2.5k Display	Any port
	(1) 4k Display	Any port
	(1) 5K single cable*	Either DP port
	(1) 5K dual cable	Both DP ports
	(1) 8K dual cable	Both DP ports

Technical Specifications

	(1) 8K single cable*	Either DP port
Dual Displays	(2) FHD Displays	Any 2 ports
	(2) 2.5k Displays	Any 2 ports
	(1) 4K and (1) FHD	Any 2 ports
	(2) 4k Displays	Any 2 ports
	(1) 5K single* + 1 FHD	5K on either DP, FHD on any other port
	(1) 5K dual cable + 1 FHD	Both DP ports for 5K and FHD on HDMI
Triple Displays	(3) 1680 x 1050 Displays	All 3 ports
	(3) FHD Displays	All 3 ports
	(2) 2.5K and (1) FHD	Any 3 ports
	(3) 2.5K	All 3 ports
	(1) 4K + (1) 2.5k + (1) FHD	Any 3 ports
	(1) 4k and (2) 2.5k Displays	Any 3 ports
	(2) 4K and (1) FHD	Any 3 ports
	(3) 4K	Any 3 ports
	(2) 5K single cable* and (1) 4K	5K on either DP, 4K on HDMI

*Information provided for when single cable 5K and 8K displays are available on the market.

Video Resolution

	Display Configurations ¹	Host					
		High Res mode DP Alt Mode (DP x4)			Multi-Function (default)(DP x2)		
		DP 1.2	DP 1.3/1.4	DP 1.4w/DSC**	DP 1.2 MF	DP1.3/1.4MF	DP1.4 MF w/DSC**
Single Display	(1) 2.5K Display	Y	Y	Y	Y	Y	Y
	(1) 4K Display	Y	Y	Y	Y	Y	Y
	(1) 5K single cable*		Y	Y			Y
	(1) 5K dual cable	Y (D5)	Y (D5)	Y (D5)			Y (D5)
	(1) 8K dual cable			Y (D5)			
	(1) 8K single cable*			Y			
Dual Displays	(2) FHD Displays	Y	Y	Y	Y	Y	Y
	(2) 2.5K Displays	Y	Y	Y		Y	Y
	(1) 4K and (1) FHD	Y	Y	Y		Y (D3)	Y
	(2) 4K Displays		Y (D1)	Y			Y
	(1) 5K single* + 1 FHD		Y (D4)	Y			Y
	(1) 5K dual cable + 1 FHD			Y (D5)			Y (D5)
Triple Displays	(3) 1680 x 1050 Displays	Y	Y	Y	Y	Y	Y
	(3) FHD Displays	Y	Y	Y		Y	Y
	(2) 2.5K and (1) FHD	Y	Y	Y			Y
	(3) 2.5K		Y	Y			Y

Technical Specifications

(1) 4K + (1) 2.5K + (1) FHD		Y	Y			Y
(1) 4K and (2) 2.5K Displays		Y (D1)	Y			Y
(2) 4K and (1) FHD			Y			Y (D2)
(3) 4K			Y			
(2) 5K single cable* and (1) 4K			Y			

1. Assumes the host supports up to 3 simultaneous displays with no resolution limitations. Some lower power processors may have a resolution limitation.

NOTES:

D1 - Only supports up to 3840 x 2160 (UHD 4K)

D2 - Only supports up to dual 3840 x 2160 (UHD 4K) and 1920 x 1080 (FHD)

D3 - Only supports up to 4096 x 2160 (4K) @ 30Hz

D4 - Supports up to 5120 x 2880 (5K) and 1920 x 1080 (FHD) with reduced blanking timing

D5 - Both DP cables must be connected to the same graphics controller and the graphics driver must support the tile display feature under MST. Currently, no GPU (in 2019) supports tiled 5K and 8K over MST. However, it is possible that future GPUs may add this support.

Unless noted, displays are driven @ 60Hz, 8bpp

*Information provided for when single cable 5K and 8K displays are available on the market.

** The DSC supported version and color format depends on GFX capability. DSC is disabled when display is attached to the VGA port or to an external DP2VGA dongle

FHD = 1920 x 1200 or 1920 x 1080

2.5K = 2560 x 1600 or 2560 x 1440

4K = 4096 x 2160 or 3840 x 2160

5K = 5120 x 2880