HP USB-C G5 Dock vs. HP USB-C G5 Essential Dock

HP USB-C G5 Dock	Features	HP USB-C G5 Essential Dock
Small, compact	Design	Small, compact
USB-C alt. mode	Technology	USB-C alt. mode
100W	Power Delivery	65W
Mimics notebook	Power Button LED	On when docked, off when undocked
Connected & Disconnected	FW Updates	Connected
✓	PXE Boot	✓
✓	OOB Wake on LAN	X
✓	MAC Address Thru	X
✓	eTag	X
✓	Disable LAN	X
✓	Secure FW Update	X
✓	Event Messaging	X
X	Availability	✓

✓ 100W Power Delivery
✓ Manageability

✓ 65W Power Delivery
✓ Ready to ship

Product Definition
HP USB-C G5 Essential Dock

Feature gaps summary

→ Only 65W charging power, not suitable for charging Firefly
→ Possible less displays at high resolution supported
→ Manageability has less functionalities, missing out of band manageability

Source:

Attributes	Product Details
System compatibility	USB-C Alt mode - works with systems that have a USB-C Alt mode, USB4, or Thunderbolt port.
Power Button to system	Yes (HP supported systems only)
Video Resolution	(DP 1.4) 2 x FHD @ 60Hz 2 x 2.5K @ 60Hz 1 x 4K @ 60Hz
Cable length	1.0 meter cable
Power to system	HP or non-HP: Up to 65W USB-C
Ports	4x USB-A 3.0 Gen 1 (2x Fast Charging – Side; 2x Charging - Rear) 1x USB-C (data + 15W) 1x RJ45 – Gb Ethernet 1x Combo Audio 1x Kensington Lock Slot
Video ports	2x DP 1.4, Single up to 4k@60Hz 1x HDMI 2.0, Single up to 4k@60Hz
Additional Features	PXE Boot, connected FW updates, LAN/WLAN switching 1-year warranty (US)
Technology	USB-C (plug and play – no drivers required)

USB-C Dock G5 v. USB-C DOCK G5 Essential Feature Comparison

Hardware/Features	G5	G5 Essential
[Hardware] Type-C port UFP – USB-C Cable to Host system	100W	65W
[Hardware] Type-C port DFP (Front) – 1 x USB-C® port with data and power out (15W)	●	●
[Hardware] USB-A charging ports (Side) – 2 x USB 3.0 charging ports	●	●
[Hardware] USB-A charging ports (Rear) – 2 x USB 3.0 ports (DMC)	Fast Charge	No Fast Charging
[Hardware] Audio Jack (Rear) – 1 x Combo Audio Jack	●	●
[Hardware] Display – DP Ports (Rear) – 2 x DisplayPort™ ports	●	●
[Hardware] Display – HDMI Port (Rear) – 1 x HDMI 2.0 port	●	●
[Hardware] Ethernet LAN Port (Rear) – 1 x RJ45 port	●	●
[Hardware] Security lock slot (Rear) – 1 x Standard Lock Slot	●	●
[Firmware] Power button – Wake from Sleep Mode	●	●
[Firmware] Power button LED (HP alt mode support) – When connected, the dock's power button LED mimic's the host notebook power button (ex. blinks during S3)	●	LED is ON when docked, Off when undocked
[Firmware][Manageability] Disconnected Firmware update – Firmware Update while disconnected (DMC)	●	
[Firmware][Manageability] OOB Wake On LAN – ITDM can wake the connected notebook from sleep states through the dock LAN connection.	●	
[Firmware][Manageability] MAC Address Pass Through (MAPT) – ITDM can access the host notebook MAC address through the dock LAN connection	●	
[Firmware][Manageability] eTag – ITDM can discover the dock Product name, Serial Number, MAC Address and FW Version remotely	●	
[Firmware][Manageability] Disable LAN – ITDM can choose to disable the dock's LAN connection for added security	●	
[Firmware] Dock Secure FW Update – Additional Firmware Resiliency based on NIST SP800-193. Requires signed FW infrastructure implementation.	●	
[Firmware] Event messaging – Limited dock events notification (DMC)	●	

Manageability comparison

Manageability	E24u & E27u G4	E24/7/34m & MultiportHUB	Z USB-C 2022	USB-C Essential Dock	USB-C Dock G5 &Tb Dock G4	Remarks
Display Manageability						
Remote Firmware Installer	✓	✓	✓	✓	✓	For 2021 monitors, supported by HP Display Manager. For Docking Stations and E24d, supported by HP Firmware Installer, One Click Installer (OCI).
HP Display Manager	✓	✓	✓			Includes remote monitor firmware installation, telemetry and asset tracking functionalities.
Update Upon Disconnect					✓	
Dock eTag					✓	IT can use to query product name, MAC address, FW version.
Docked System Manageability						
Wake On LAN (WOL) In-band		✓	✓		✓	Wakes PC to push updates
MAC-Address Passthrough (MAPT) In-band		✓	✓		✓	Shows address of PC, not monitor
Preboot eXecution Environment (PXE) boot in-band		✓	✓	✓	✓	IT can issue commands to PC when awake or asleep
Out-of-Band WOL (S4, S5)					✓	Wakes "off" PC. HP manageability is required.
Out-of-Band MAPT (S4, S5)					✓	Connects to "off" PC. HP manageability is required
Single Power On (Monitor Power Button controls PC)	✓				✓	HP manageability is required. SPO under discussion for Rose.
Other						
KVM Switch			✓*			*Only on Z34c, Z32u; Z40c has Device Bridge 2.0