



TECHNICAL WHITE PAPER

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SOLIDWORKS

**Modeling – SOLIDWORKS, SOLIDWORKS CAM, SOLIDWORKS Plastics,
SOLIDWORKS Electrical Schematics, SOLIDWORKS PCB, SOLIDWORKS
PhotoView 360**

- Application workflow benefits from the highest clock frequency. 4–8 CPU core processors typically have highest clock frequency
- Application workflow benefits from 4 GB / 5 GB / 6 GB graphics memory (dedicated graphics)
- Processor technology supports multi-channel memory and multi-slot memory per channel. Populate channels with identical memory types and sizes in the first slot set and then the second slot set (if second slot set available). 32 GB RAM
- The operating system and application install benefits from an SSD storage device. The application workflow benefits from a separate SSD or NVMe storage device

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Workspace environment is desk and space allow for a desktop tower chassis.



HP Z2 Tower G4

Processor:	Intel® Core™ i7-9700K 3.6 - 4.9 GHz, 8 core
Memory:	32 GB
Storage:	512 GB SSD + 1 TB M.2
Graphics:	NVIDIA® Quadro® P2200
Operating System:	Windows 10 Pro

Workspace environment is desk space-constrained. Small form factor or mini form factor chassis take less footprint on desk.

Note: The mini form factor chassis can be attached to a display stand.



HP Z2 Mini G4

Processor:	Intel® Xeon® E2236 3.4 - 4.8 GHz, 6 core
Memory:	32 GB
Storage:	1 TB M.2
Graphics:	NVIDIA® Quadro® P1000
Operating System:	Windows 10 Pro

Workspace environment is both laptop on desk and mobile. Note: There is suitable space for docking and display.



HP ZBook 15 G6

Processor:	Intel® Core™ i7-9850H 2.6 - 4.6 GHz, 6 core
Memory:	32 GB
Storage:	512 GB M.2 + 1 TB M.2
Graphics:	NVIDIA® Quadro® T2000
Operating System:	Windows 10 Pro
Display	15.6 FHD AG LED UWVA 250 wHDC slim

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RENDERING, SURFACING, VISUALIZATION – SOLIDWORKS VISUALIZE

- Application workflow benefits from the highest clock frequency. 4–8 CPU core processors typically have highest clock frequency.
- Application workflow benefits from 16 GB graphics memory (dedicated graphics)
- Processor technology supports multi-channel memory and multi-slot memory per channel. Populate channels with identical memory types and sizes in the first slot set and then the second slot set (if second slot set available). 32–64 GB RAM
- The operating system and application install benefits from an SSD storage device. The application workflow benefits from a dedicated SSD or NVMe storage device.

Workspace environment is desk and space allow for a desktop tower chassis.



HP Z2 Tower G4

Processor:	Intel® Core™ i7-9700K 3.6 - 4.9 GHz, 8 core
Memory:	64 GB
Storage:	512 GB SSD + 1 TB M.2
Graphics:	NVIDIA® Quadro RTX™ 5000
Operating System:	Windows 10 Pro

Workspace environment is both laptop on desk and mobile. Note: There is suitable space for docking and display.



HP ZBook 17 G6

Processor:	Intel® Core™ i9-9880H 2.3 - 4.8 GHz, 8 core
Memory:	64 GB
Storage:	512 GB M.2 + 1 TB M.2
Graphics:	NVIDIA® Quadro RTX™ 5000
Operating System:	Windows 10 Pro
Display:	17.3 FHD AG LED UWVA 300 1HDC slim ALS

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SIMULATION – SOLIDWORKS FLOW SIMULATION, SIMULATION

- Application workflow benefits from the highest clock frequency. 4–8 CPU core processors typically have highest clock frequency
- Application workflow benefits from 4 GB / 5 GB / 6 GB graphics memory (dedicated graphics)
- Processor technology supports multi-channel memory and multi-slot memory per channel. Populate channels with identical memory types and sizes in the first slot set and then the second slot set (if second slot set available). 32 GB RAM
- The operating system and application install benefits from an SSD storage device. The application workflow benefits from a separate SSD or NVMe storage device

Workspace environment is desk and space allow for a desktop tower chassis.



HP Z2 Tower G4

Processor:	Intel® Core™ i7-9700K 3.6 - 4.9 GHz, 8 core
Memory:	32 GB
Storage:	512 GB SSD + 1 TB M.2
Graphics:	NVIDIA® Quadro® P2200
Operating System:	Windows 10 Pro

Workspace environment is both laptop on desk and mobile. Note: There is suitable space for docking and display.



HP ZBook 15 G6

Processor:	Intel® Core™ i7-9850H 2.6 - 4.6 GHz, 6 core
Memory:	32 GB
Storage:	512 GB M.2 + 1 TB M.2
Graphics:	NVIDIA® Quadro® T2000
Operating System:	Windows 10 Pro
Display:	15.6 FHD AG LED UWVA 250 wHDC slim

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SKETCHING AND CONCEPTUAL DESIGN – SOLIDWORKS INDUSTRIAL DESIGNER

- Application workflow benefits from more CPU cores. Note: Higher clock frequency will also benefit application performance. LumenRT is either CPU or GPU intensive depending on the task being performed. The pre-processing phase is CPU intensive while the navigation/viewing process is GPU intensive. LumenRT is optimized to make the best of all the processors/cores on your system. LumenRT would be the product for Virtual Reality (VR)
- Application workflow benefits from 6-16 GB graphics memory (dedicated graphics). RTX graphics candidate
- Processor technology supports multi-channel memory and multi-slot memory per channel. Populate channels with identical memory types and sizes in the first slot set and then the second slot set (if second slot set available). 64–96 GB RAM
- The operating system and application install benefits from an SSD storage device. The application workflow benefits from a separate SSD or NVMe storage device

Workspace environment is desk and space allow for a desktop tower chassis.



HP Z2 Tower G4

Processor:	Intel® Core™ i7-9700K 3.6 - 4.9 GHz, 8 core
Memory:	32 GB
Storage:	512 GB SSD + 1 TB M.2
Graphics:	NVIDIA® Quadro® P2200
Operating System:	Windows 10 Pro

Workspace environment is both laptop on desk and mobile. The workflow includes pen for writing and/or drawing.



HP ZBook x2 G4

Processor:	Intel® Core™ i7-8550U 1.8 - 4.0 GHz, 4 core
Memory:	16 GB
Storage:	512 GB HP Z Turbo Drive SSD
Graphics:	NVIDIA® Quadro® M620
Operating System:	Windows 10 Pro
Display:	14 UHD B-LED UWVA 1FHD/IR slim TS

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4AA7-6304ENW, October 2019.