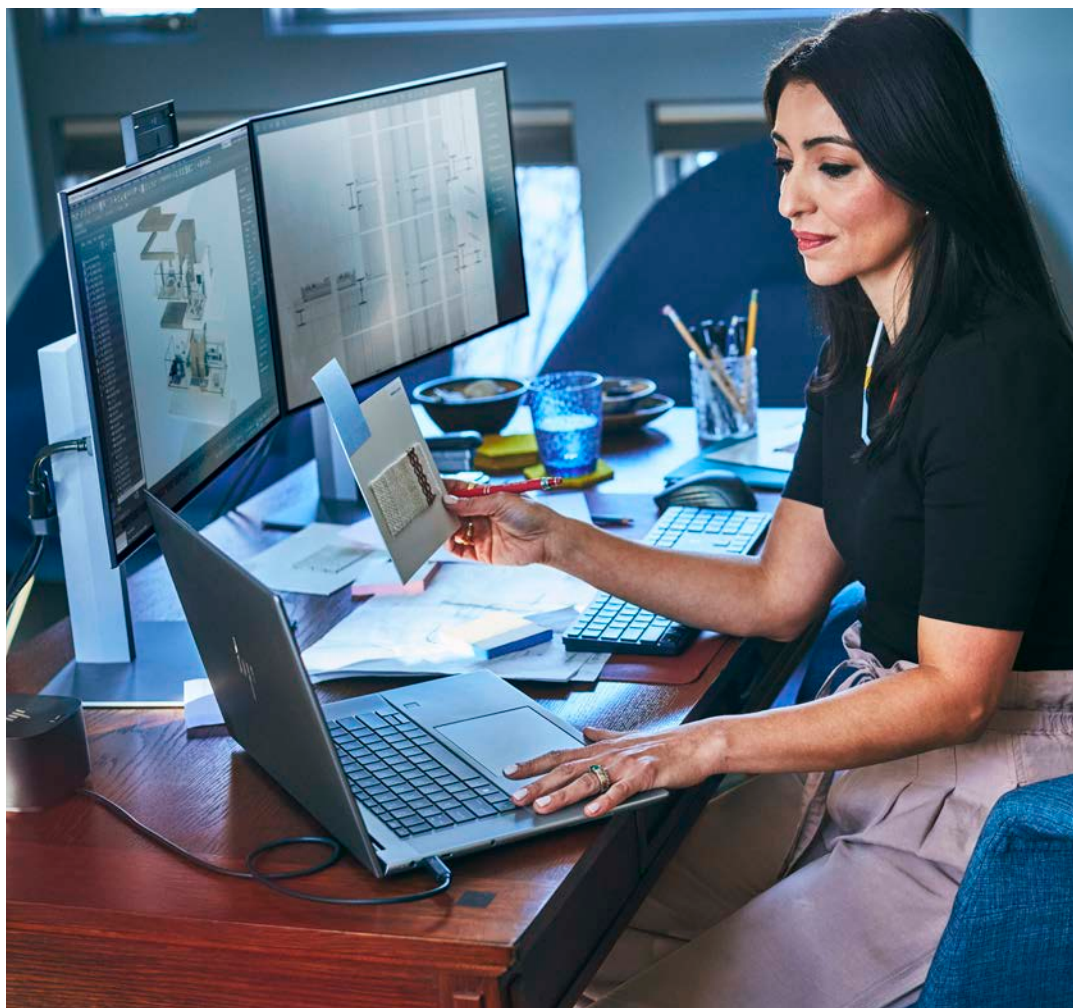




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Z by HP Discrete Graphics Quick Reference Guide

Discrete graphics solutions for Z by HP Workstations

HP is proud to offer discrete graphics choices on all of our Z by HP workstations—from the HP ZBook family to our ultimate workstation, the HP Z8 Fury.

HP's professional graphics line-up is perfect for users who are running business critical applications who require stability, reliability, great performance, additional support, and application-specific features and optimization for things like complex design modeling, dataset manipulation, visual effects and visualization.

Note: Currently, Z2 Mini, Z2 SFF, Z2 Tower, Z1 Entry Tower and all ZBooks support CPUs with built-in integrated graphics. Please refer to platform quickspecs for details on the CPU integrated graphics supported in that platform.

Update July 2023



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HP Z Desktops: Current Discrete Graphics Offerings

Platform		Z2 Mini G9	Z2 SFF G9	Z2 Tower G9	ZCentral 4R
Graphics	Category				
NVIDIA® T400	Entry 3D	●	● ●	● ●	● ●
AMD Radeon™ Pro WX 3200	Low-end 3D	-	●	●	-
NVIDIA® T1000	Mid-range 3D	● ●	● ● ●	● ● ●	● ● ●
NVIDIA® RTX™ A2000	Mid-range 3D	● ●	● ●	● ● ●	● ●
AMD Radeon™ 6400	High-mid 3D	-	●	●	-
AMD Radeon™ Pro W6600	High-mid 3D	-	●	●	-
AMD Radeon™ RX 6700 XT	High-end 3D	-	●	●	-
AMD Radeon™ Pro W6800	Ultra 3D	-	-	●	-
NVIDIA® RTX™ A4000	High-end 3D	-	●	● ●	-
NVIDIA® RTX™ A4500	High-end 3D	-	-	●	●
NVIDIA® RTX™ A5000	Ultra 3D	-	-	●	●
NVIDIA® RTX™ A6000	Ultra 3D	-	-	-	●

Key Legend:

● single

● ● dual

● single (2x memory)

● ● dual (2x memory)

NOTE

***Please refer to platform specifications and ordering guides for applicable configuration restrictions**



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HP Z Desktops: Current Discrete Graphics Offerings

Platform		Z4 G4	Z6 G4	Z8 G4
Graphics	Category			
AMD Radeon™ Pro WX 3200	Low-end 3D	•	• • •	• • •
NVIDIA® T400	Low-end 3D	• • • •	•	• •
AMD Radeon™ Pro W5700	High-end 3D	• •	•	• •
AMD Radeon™ Pro W6600	High-mid 3D	• •	•	-
AMD Radeon™ RX 6700 XT	High-end 3D	•	-	-
AMD Radeon™ Pro W6800	Ultra 3D	• •	•	-
NVIDIA® T1000	Mid-range 3D	• • • •	• • • •	• • • • • •
NVIDIA® Quadro® GV100	Ultra 3D	• •	-	• • •
NVIDIA® RTX™ A2000	Mid-range 3D	• • • •	• • • •	• • • • • •
NVIDIA® RTX™ A4000	High End 3D	• •	• •	• • • •
NVIDIA® RTX™ A4500	High End 3D	• •	• •	• • •
NVIDIA® RTX™ A5000	Ultra 3D	• •	• •	• • •
NVIDIA® RTX™ A6000	Ultra 3D	• •	•	• •

Key Legend:

•	single	• • •	triple	•	single (2x memory)	• • •	triple (2x memory)
NOTE	• •	dual	• • • •	quad	• •	dual (2x memory)	

***Please refer to platform specifications and ordering guides for applicable configuration restrictions**



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HP Z Desktops: Current Discrete Graphics Offerings

Platform		Z4 G5	Z6 G5	Z8 G5	Z8 Fury G5
Graphics	Category				
NVIDIA® T400	Low-end 3D	• •	• • •	• •	• • • •
AMD Radeon™ RX 6400	Entry 3D	•	•	•	•
AMD Radeon™ Pro W6600	High-mid 3D	• •	• • •	• •	• • •
AMD Radeon™ RX 6700 XT	High-end 3D	•	•	-	-
AMD Radeon™ Pro W6800	Ultra 3D	• •	• •	• •	• •
NVIDIA® T1000	Mid-range 3D	• • • •	• • • • • •	• • • •	• • • • • • • • • •
NVIDIA® RTX™ A2000	Mid-range 3D	• • • •	• • •	• •	• • • •
NVIDIA® RTX™ A4000	High End 3D	• •	• • •	• •	• • • •
NVIDIA® RTX™ A4500	High End 3D	• •	• • •	• •	• • • •
NVIDIA® RTX™ A5000	Ultra 3D	• •	• • •	• •	• • • •
NVIDIA® RTX™ A6000	Ultra 3D	• •	• • •	• •	• • • •
NVIDIA® RTX™ 6000 ADA	Ultra 3D	• •	• • •	• •	• • • •
Intel® ARC™ Pro A40		•	•	•	•

Key Legend:

•	single	• • •	triple	•	single (2x memory)	• • •	triple (2x memory)
NOTE	• •	dual	• • • •	quad	• •	dual (2x memory)	

***Please refer to platform specifications and ordering guides for applicable configuration restrictions**



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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® T400	NVIDIA® T600	Intel® ARC™ Pro A40	AMD Radeon™ RX 6400
Graphics Category	Entry 3D	Low-end 3D	Entry 3D	Entry 3D
Graphics Memory	2 GB 4 GB GDDR6	4 GB GDDR6	6 GB GDDR6	4 GB GDDR6
Memory Bandwidth	Up to 80 GB/s	Up to 160 GB/s	Up to 192 GB/s	Up to 128 GB/s
Cores ⁵	384	640	128	768
Power	30 W	40 W	50 W	53 W
Form Factor ³	Single slot, Half Height	Single slot, Half Height	Single slot, Half Height	Single slot, Half Height (2.713" H x 6.137" L)
DirectX Support	12_1	12_1	12 Ultimate	12 Ultimate
OpenGL Support	4.6	4.6	4.6	4.6
Max Resolution (DP) ^{1,4}	7680 x 4320 @60 Hz	7680 x 4320 @60 Hz	7680 x 4320 @60 Hz	Up to 4x 5120 x 2880 x 24 bpp @60 Hz
Max Displays	4 with MST	4	4	4
Video Outputs	3x mini-DP 1.4	4x mDP 1.4	4x mDP 1.4	DP + HDMI
Included Video Adapters:				
CTO	None	None	None	None
AMO	2 mDP-to-mDP	2 mDP-to-mDP	2 mDP-to-mDP	None
ISV Certified ²	Yes	Yes	Yes	No
Other	Vulkan™, CUDA®, Mosaic™	Vulkan™, CUDA®, Mosaic™	Vulkan™ 1.3	-



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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ Pro WX 3200	NVIDIA® T1000	AMD Radeon™ RX 6700 XT
Graphics Category	Low-end 3D	Mid-range 3D	High-end 3D
Graphics Memory	4 GB GDDR5	4 GB 8 GB GDDR6	12 GB GDDR6
Memory Bandwidth	Up to 96 GB/s	Up to 160 GB/s	Up to 384 GB/s
Cores ⁵	640	896	2560
Power	56 W	50 W	230 W
Form Factor ³	Single slot, Half Height	Single slot, Half Height	Dual Slot, Full Length
DirectX Support	12	12_1	12_1
OpenGL Support	4.5	4.6	4.6
Max Resolution (DP) ^{1,4}	5120 x 2880 @60 Hz ²	5120 x 2880 @60 Hz	5210 x 3200 @60 Hz
Max Displays	4 or 5 with DP MST	4	4
Video Outputs	4x mDP 1.4	4x mini-DP	4x mDP 1.4
Included Video Adapters:			
CTO	None	None	None
AMO	2x mDP-to-mDP	2x mDP-to-mDP	-
ISV Certified ²	Yes	Yes	No
Other	AMD Sync, OpenCL 2.0, Eyefinity, DirectGMA, FreeSync, HDR Ready	GPU Boost 3.0, CUDA®, Mosaic™	-



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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® RTX™ A2000	AMD Radeon™ Pro W5500	AMD Radeon™ Pro W5700
Graphics Category	Mid-range 3D	Mid-range 3D	High-end 3D
Graphics Memory	6 GB 12 GB GDDR6	8 GB GDDR6	8 GB GDDR6
Memory Bandwidth	Up to 288 GB/s	Up to 224 GB/s	Up to 448 GB/s
Cores ⁵	3328	1408	2304
Power	70 W	130 W	205 W
Form Factor ³	dual slot, Half Height	single slot, Full Height	dual slot, Full Height
DirectX Support	12_1	12_1	12_1
OpenGL Support	4.6	4.6	4.6
Max Resolution (DP) ^{1,4}	5120 x 2880 @60 Hz	7690 x 4320 @60 Hz ^{7,9}	7690 x 4320 @60 Hz ^{7,8}
Max Displays	4	4	6
Video Outputs	4x DP 1.4	4x DP 1.4a	5x mDP 1.4a and 1x USB-C® AltMode port
Included Video Adapters:			
CTO	None	None	None
AMO	2x mDP-to-mDP	None	None
ISV Certified ²	Yes	Yes	Yes
Other	CUDA®, OpenCL™ 2.0	OpenCL 2.0, FreeSync, HDR Ready, Radeon™ Pro Software, AMD Eyefinity, Radeon™ ProRender, Unified Video Decoder, Video Code Engine, VR Ready	OpenCL 2.0, FreeSync, HDR Ready, Radeon™ Pro Software, AMD Eyefinity, Radeon™ ProRender, Unified Video Decoder, Video Code Engine, VR Ready



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HP Z Desktops: Discrete Graphics Spec
Summary

Graphics Module	AMD Radeon™ Pro W6600	NVIDIA® Quadro® GV100	AMD Radeon™ Pro W6800
Graphics Category	High-Mid 3D	Ultra 3D	Ultra 3D
Graphics Memory	8 GB GDDR6	32 GB HBM2	32 GB GDDR6
Memory Bandwidth	Up to 224 GB/s	Up to 870 GB/s	Up to 512 GB/s
Cores ⁵	1792	5120	3840
Power	130 W	250 W	261W
Form Factor ³	single slot, Full-height	dual slot, Full Height	dual slot, Full Height
DirectX Support	12_1	12	12 Ultimate
OpenGL Support	4.6	4.5	4.6
Max Resolution (DP) ^{1,4}	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Max Displays	4	4	6
Video Outputs	4x DP 1.4	4x DP 1.4	6x mDP 1.4a
Included Video Adapters:			
CTO	None	None	None
AMO	None	None	2x mDP-to-mDP
ISV Certified ²	Yes	Yes ³	Yes
Other	Vulkan™ 1.2, OpenCL™ 2.1	Quadro® Sync II, GPUDirect, GPU Boost 3.0, CUDA®, Mosaic™, VR Ready, Multi-GPU Scalability NVLink (2-way)	Vulkan™ 1.2, OpenCL™ 2.1



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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® RTX™ A4000	NVIDIA® RTX™ A4500	NVIDIA® RTX™ A5000	NVIDIA® RTX™ A6000	NVIDIA® RTX™ 6000 Ada
Graphics Category	High-End 3D	High-End 3D	Ultra 3D	Ultra 3D	Ultra 3D
Graphics Memory	16 GB GDDR6	20 GB GDDR6	24 GB GDDR6	48 GB GDDR6	48 GB GDDR6
Memory Bandwidth	Up to 448 GB/s	Up to 640 GB/s	Up to 768 GB/s	Up to 768 GB/s	Up to 768 GB/s
Cores ⁵	6144	7168	8192	10752	10888
Power	140W	200W	230 W	300 W	300 W
Form Factor ³	single slot, Full Length	dual slot, Full Height	dual slot, Full Height	dual slot, Full Height	dual slot, Full Height
DirectX Support	12_1	12_1	12_1	12_1	12_1
OpenGL Support	4.6	4.6	4.6	4.6	4.6
Max Resolution (DP) ^{1,4}	7680 x 4320 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Max Displays	4	4	4	4	4
Video Outputs	4X DP 1.4	4X DP 1.4	4x DP 1.4a	4x DP 1.4a	4x DP 1.4a
Included Video Adapters:					
CTO	None	None	None	None	None
AMO	None	None	None	None	None
ISV Certified ²	Yes	Yes	Yes	Yes	Yes
Other	Quadro® Sync II, GPUDirect, GPU Boost 3.0, CUDA®, Mosaic™, VR Ready, Vulkan™	Quadro® Sync II, GPUDirect, GPU Boost 3.0, NVLink, CUDA®, Mosaic™, VR Ready	Quadro® Sync II, GPUDirect, GPU Boost 3.0, NVLink, CUDA®, Mosaic™, VR Ready	Quadro® Sync II, GPUDirect, GPU Boost 3.0, NVLink, CUDA®, Mosaic™, VR Ready	CUDA, OpenCL™ 3, Shader Model 6.6, Vulkan™ 1.3, Direct Compute



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HP ZBooks: Current Discrete Graphics Offerings

Platform		ZBook Firefly G9	ZBook Power G9	ZBook Studio G9	ZBook Fury G9
Graphics	Category				
NVIDIA® T550 4 GB	Entry 3D	●	-	-	-
NVIDIA® T600 4 GB	Low-end 3D	-	●	-	-
NVIDIA® RTX™ A500 4 GB	Low-end 3D	●	-	-	-
NVIDIA® RTX™ A1000 4 GB	Mid-range 3D	-	●	●	●
NVIDIA® RTX™ A2000 8 GB	Mid-range 3D	-	●	●	●
NVIDIA® RTX™ A3000 12 GB	High-end 3D	-	-	●	●
NVIDIA® RTX™ A4500 16 GB	High-end 3D	-	-	●	●
NVIDIA® RTX™ A5500 16 GB	Ultra 3D	-	-	●	-
NVIDIA® RTX™ 3060 6 GB	High-end 3D	-	-	●	-
NVIDIA® RTX™ 3070 Ti 8 GB	High-end 3D	-	-	●	-
NVIDIA® RTX™ 3080 Ti 16 GB	High-end 3D	-	-	●	-
AMD RADEON™ Pro W6600M	High-end 3D	-	-	-	●

Key Legend:

- single



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HP ZBooks: Current Discrete Graphics Offerings

Platform		ZBook Firefly G10	ZBook Power G10	ZBook Studio G10	ZBook Fury G10
Graphics	Category				
NVIDIA® RTX™ A500 4 GB	Low-end 3D	●	●	-	-
NVIDIA® RTX™ A1000 6 GB	Mid-range 3D	-	●	●	●
NVIDIA® RTX™ 2000 ADA 8 GB	Mid-range 3D	-	●	●	●
NVIDIA® RTX™ 3000 ADA 8 GB	Mid-range 3D	-	●	●	-
NVIDIA® RTX™ 3500 ADA 12 GB	High-end 3D	-	-	-	●
NVIDIA® RTX™ 4000 ADA 12 GB	High-end 3D	-	-	●	●
NVIDIA® RTX™ 5000 ADA 16 GB	Ultra 3D	-	-	-	●
NVIDIA® RTX™ 4070 8 GB	High-end 3D	-	-	●	-
NVIDIA® RTX™ 4080 12 GB	High-end 3D	-	-	●	-

Key Legend:

- single



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HP ZBooks: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® T550	NVIDIA® RTX™ A500	NVIDIA® T600	NVIDIA® RTX™ A1000	NVIDIA® RTX™ A2000 8 GB
Graphics Category	Entry 3D	Entry 3D	Low-end 3D	Mid-range 3D	Mid-high 3D
Memory	4 GB GDDR6	4 GB GDDR6	4 GB GDDR6	4 GB 6 GB GDDR6	8 GB GDDR6
Max Cores ²	1024	2048	896	2048	2560
Max Power ⁴	20 W	20 W	25 W	35 W	35 W
DirectX Support	12	12 Ultimate	12_1	12 Ultimate	12 Ultimate
OpenGL Support	4.5	4.6	4.6	4.6	4.6
Max Resolution (DP) ¹	Determined by CPU ³	Determined by CPU ³	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Display Pipelines ¹	4	4	4	4	4
ISV Certified ²	Yes	Yes	Yes	Yes	Yes
Other	CUDA®	CUDA®	CUDA®	CUDA®	CUDA®

HP ZBooks: Discrete Graphics Spec Summary

Graphics Module	AMD RADEON™ Pro W6600M	NVIDIA® RTX™ A3000	NVIDIA® RTX™ A4500	NVIDIA® RTX™ A5500
Graphics Category	High-end 3D	High-end 3D	High-end 3D	Ultra 3D
Memory	8 GB GDDR6	12 GB GDDR6	16 GB GDDR6	16 GB GDDR6
Cores ²	1972	4096	5888	7424
Power ⁴	80 W	60 W	80 W	80 W
DirectX Support	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate
OpenGL Support	4.6	4.6	4.6	4.6
Max Resolution (DP) ¹	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Display Pipelines ¹	4	4	4	4
ISV Certified	Yes	Yes	Yes	Yes
Other	OpenCL 2.0, Vulkan™ 1.2	CUDA®	CUDA®	CUDA®



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Graphics Module	NVIDIA® RTX™ 2000 Ada	NVIDIA® RTX™ 3000 Ada	NVIDIA® RTX™ 3500 Ada	NVIDIA® RTX™ 4000 Ada	NVIDIA® RTX™ 5000 Ada
Graphics Category	Mid-high 3D	Mid-high 3D	High-end 3D	High-end 3D	Ultra 3D
Memory	8 GB GDDR6	8 GB GDDR6	12 GB GDDR6	12 GB GDDR6	16 GB GDDR6
Cores ²	3070	4608	5120	7424	9728
Power ⁴	35 W	60 W	60 W	80 W	80 W
DirectX Support	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate
OpenGL Support	4.6	4.6	4.6	4.6	4.6
Max Resolution (DP) ¹	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Display Pipelines ¹	4	4	4	4	4
ISV Certified ²	Yes	Yes	Yes	Yes	Yes
Other	CUDA®	CUDA®	CUDA®	CUDA®	CUDA®

Graphics Module	NVIDIA® GeForce RTX™ 3060	NVIDIA® GeForce RTX™ 3070 Ti	NVIDIA® GeForce RTX™ 3080 Ti	NVIDIA® GeForce RTX™ 4070	NVIDIA® GeForce RTX™ 4080
Graphics Category	High-end 3D	High-end 3D	High-end 3D	High-end 3D	High-end 3D
Memory	6 GB GDDR6	8 GB GDDR6	16 GB GDDR6	8 GB GDDR6	12 GB GDDR6
Cores ²		5888	7424	4608	7424
Power ⁴		80 W	80 W	70 W	80 W
DirectX Support	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate
OpenGL Support	4.6	4.6	4.6	4.6	4.6
Max Resolution (DP) ¹	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Display Pipelines ¹	4	4	4	4	4
ISV Certified ²	No	No	No	No	No
Other	CUDA®	CUDA®	CUDA®	CUDA®	CUDA®



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Z1 Entry Tower: Current Discrete Graphics Spec Offering
and Spec Summary

Z1 G9		
Graphics	Category	
AMD Radeon™ RX 6300	Entry 3D	•
NVIDIA® T400	Entry 3D	• •
NVIDIA® T1000	Mid-range 3D	•
Intel® ARC™ A380	Mid-range	•
NVIDIA® GeForce RTX™ 3050	High-end 3D	•
NVIDIA® GeForce RTX™ 3060	High-end 3D	•
NVIDIA® GeForce RTX™ 3070	High-end 3D	•

Key Legend:

- single
- single (2x memory)
- • dual

*2nd PCIe slot is not x16, may only be x4 electrically



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Z1 Entry Tower: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ RX 6300	NVIDIA® T400	NVIDIA® T1000	Intel® ARC™ A380
Graphics Category	Entry 3D	Entry 3D	Mid-range 3D	Mid-range 3D
Graphics Memory	2GB GDDR6	4 GB GDDR6	4GB 8 GB GDDR6	6 GB GDDR6
Memory Bandwidth	Up to 56 GB/s	Up to 80 GB/s	Up to 160 GB/s	Up to 186 GB/s
Cores	768	384	896	X ^e -Core: 8
Power	25 W	30 W	50 W	75 W
Form Factor ³	Single slot, Full Height	Single slot, Half Height	Single slot, Half Height	Single slot, Full Height
DirectX Support	12.2	12_1	12_1	12 Ultimate
OpenGL Support	4.6	4.6	4.6	4.6
Max Resolution (DP) ¹	7680x4320 @60 Hz	3x5120x2880 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	2	4 with MST	4	4
Video Outputs	1xHDMI + 1x DP (LP)	3x mini-DP 1.4	4x mini-DP	1xHDMI + 3xDP
Included Video Adapters:				
CTO	None	None	None	None
AMO	Offered as AMO 7Y6P7AA	2 mDP-to-mDP	2x mDP-to-mDP	Coming
ISV Certified	No	Yes	Yes	No
Other	Shader Model 6.7, OpenCL 2.2, Vulkan™ 1.3	Vulkan™, CUDA®, Mosaic™	GPU Boost 3.0, CUDA®, Mosaic™	Vulkan™ 1.3

Graphics Module	NVIDIA® GeForce RTX™ 3050	NVIDIA® GeForce RTX™ 3060	NVIDIA® GeForce RTX™ 3070
Graphics Category	High-end 3D	High-end 3D	High-end 3D
Graphics Memory	8GB GDDR6	12 GB GDDR6	8 GB GDDR6
Memory Bandwidth	Up to 224 GB/s	Up to 360 MB/s	Up to 448 MB/s
Power	130 W	170W	220W
Form Factor ²	Dual slot, Full Height	Dual slot, Full Height	Dual slot, Full Height
DirectX Support	12 Ultimate	12 Ultimate	12 Ultimate
OpenGL Support	4.6	4.6	4.6
Max Resolution (DP) ¹	7680x4320 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	4	4	4
Video Outputs	1xHDMI + 3xDP	3xDP + 1xHDMI	3xDP + 1xHDMI
Included Video Adapters:			
CTO	None	None	None
AMO	None	None	None
ISV Certified	None	None	None



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Graphics Accesories

DisplayPort™ to DVI-D	Single link DVI-D support (max 1920x1200 @60 Hz) Part number: FH973AA
DisplayPort™ to HDMI True 4K Adapter	Supports audio over DP, supports UHD up to 30 Hz and True 4K up to 24 Hz (HDMI 1.4) Part number: 2JA63AA
DisplayPort™ to VGA	VGA support Part number: AS615AA
6-pin to 8-pin Power Adapter	HP Z Workstation PSU adaptor for graphics Part number: N1G35AA
NVIDIA® 3D Stereo Bracket	For NVIDIA® RTX A4000, RTX A4500, RTX A5000, RTX A6000 ADA applications Part number: KOA25AA
NVIDIA® Quadro® Sync II	For NVIDIA® RTX A4000, RTX A4500, RTX A5000, RTX A6000 ADA multi-display applications Part number: 1WT20AA
HP (Bulk 12) miniDP-to-DP Adapter Cables	To connect additional displays to graphics cards with miniDP ports Part number: 2KW87A6
HP Single miniDP-to-DP Adapter Cable	To connect one additional display to graphics card's miniDP port Part number: 2MY05AA
HP NVIDIA® GV100 NVLINK Bridge Kit (Pair)	To connect two GV100 graphics cards for GPU-compute scaling Part number: 3NZ66AA
NVIDIA® NVLink 2-slot Bridge	To connect two RTX A4500, RTX A5000 or RTX A6000 graphics cards for GPU-compute scaling in Z4 G4, Z8 G4, Z4 G5, or Z8 G5 Part Number: 340L2AA
NVIDIA® NVLink 3-slot Bridge	To connect two RTX A4500, RTX A5000, or RTX A6000 graphics cards for GPU-compute scaling in Z6 G4 or Z6 G5 Part Number: 340L3AA
HP NVIDIA® SLI 3-Slot Graphics Connector	Z6 G4 Part number: 2YY85AA
HP NVIDIA® SLI 2-Slot Graphics Connector	Z4 G4, Z8 G4 Part number: 2YY84AA
HP GFX Power Cable CPU-8p to PU-8p	Z4 G5,Z6 G5, Z8 G5, Z8 Fury G5 Part number: 6J6H7AA
HP GFX Power Cable CPU-8p to x2 PCIe 8p(6+2)	Z4 G5,Z6 G5, Z8 G5, Z8 Fury G5 Part number: 6J6H8AA



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Additional Resources

Resources, contacts, or additional links

AMD Radeon™ Pro Professional Graphics <https://www.amd.com/en/graphics/workstations>

NVIDIA® Quadro® and RTX Graphics [nvidia.com/object/hp_workstations.html](https://www.nvidia.com/object/hp_workstations.html)

- Desktop Workstations

<https://www.nvidia.com/en-us/design-visualization/desktop-graphics/>

- Professional Laptops

<https://www.nvidia.com/en-us/design-visualization/rtx-professional-laptops/>

Learn more about our Z workstations at hp.com/go/z

Sources and Legal Disclaimers

HP Z Desktop Workstation notes

- 1 Not all video outputs of the graphics card may support the stated Max Resolution. See the card QuickSpecs for details and any restrictions.
- 2 Tested by select ISVs.
- 3 "Half Height" is also known as "Low Profile", "Single Slot" is also known as "Single Width", and "Dual Slot" is also known as "Dual Width."
- 4 Some video display modes such as 7680x4320 @60 Hz require the use of DSC (Display Stream Compression).
- 5 Different graphics architectures "Cores" cannot be directly compared. Cores is useful for comparing graphics that are of the same architecture, usually designated by common prefix letter(s) in the model name.

HP ZBook Mobile Workstation notes

- 1 See mobile workstation system specifications for display output types and max displays and resolutions supported.
- 2 Different graphics architectures "Cores" cannot be directly compared. Cores is useful for comparing graphics that are of the same architecture, usually designated by common prefix letter(s) in the model name.
- 3 All notebook designs but Fury used here requires the CPU's graphics engine to drive all display signals. Hence, it is the CPU's graphics that determines what maximum display resolution is possible to support. The maximum resolutions of the notebook's CPUs are documented in the respective notebook's QuickSpecs.
- 4 Baseline GPU TGP (Total Graphics Power) in watts when on AC power adapter. ZBooks opportunistically enables a boosted power level above the baseline TGP when the system temperature and power consumption allow.

HP Z1 notes

- 1 Not all video outputs of the graphics card may support the stated Max Resolution. See the card QuickSpecs for details and any restrictions.
- 2 "Half Height" is also known as "Low Profile", "Single Slot" is also known as "Single Width", and "Dual Slot" is also known as "Dual Width".

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