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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.

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HP Z Desktops: Current Discrete Graphics Offerings

Platform	Z1 G9	Z2 Mini G9	Z2 SFF G9	Z2 Tower G9
Graphics				
NVIDIA® T400 4 GB	•	•	• •	• •
NVIDIA® T1000 4 GB / 8 GB	•	• •	• • • •	• • • •
NVIDIA® RTX™ A2000 12 GB	–	•	•	• •
NVIDIA® RTX™ A4000 16 GB	–	–	•	• •
NVIDIA RTX 2000 Ada	–	•	•	• •
NVIDIA® RTX™ 4000 Ada 20 GB	–	–	•	• •
NVIDIA® RTX™ 4000 SFF Ada 20 GB	–	•	–	–
NVIDIA® RTX™ A4500 20 GB	–	–	–	•
NVIDIA® RTX™ A4500 Ada 24 GB	–	–	–	•
NVIDIA® RTX™ A5000 24 GB	–	–	–	•
NVIDIA® RTX™ 5000 Ada 32 GB	–	–	–	•
AMD Radeon™ RX 6300 2 GB	•	–	–	–
AMD Radeon™ RX 6400 4 GB	–	–	•	•
AMD Radeon™ RX 6700 XT 12 GB	–	–	•	•
AMD Radeon™ PRO WX 3200 4 GB	–	–	•	•
AMD Radeon™ PRO W6600 8 GB	–	–	•	•
AMD Radeon™ PRO W6800 32 GB	–	–	–	•
AMD Radeon™ PRO W7500 8 GB	–	–	•	•
AMD Radeon™ PRO W7600 8 GB	–	–	•	•

Key Legend:

• single • single (2x memory)

NOTE • • dual • • 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	Z1 G9	Z2 Mini G9	Z2 SFF G9	Z2 Tower G9
Graphics				
AMD Radeon™ PRO W7900 48 GB	-	-	-	•
NVIDIA® GeForce RTX™ 3050 8 GB	•	-	-	-
NVIDIA® GeForce RTX™ 3060 12 GB	•	-	-	-
NVIDIA® GeForce RTX™ 4060 8 GB	•	-	-	-
Intel® ARC™ Pro A380 6 GB	•	-	-	-
NVIDIA® GeForce RTX 4070S 12GB	•			

Key Legend:

• single • single (2x memory)

NOTE • • dual • • 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	ZCentral 4R	Z4 Rack G5	Z4 G5	Z6 G5	Z6 G5 A	Z8 G5	Z8 Fury G5
Graphics							
NVIDIA® T400 4 GB	•	•	• •	• • •	• • •	• •	• • • •
NVIDIA® A800 Active[1] 40 GB	–	•	–	• •	• •	–	• • •
NVIDIA® T1000 4 GB / 8 GB	• • / •	• •	• • / • •	• • • / • • •	• • •	• • / • •	• • • • / • • • • • •
NVIDIA® RTX™ A2000 6 GB / 12 GB	• / •	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ 2000 Ada 16 GB	–	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ A4000 16 GB	• •	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ 4000 Ada 20 GB	–	• •	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ A4500 20 GB	•	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ 4500 Ada 24 GB	–	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ A5000 24 GB	•	•	• •	• • •	–	• •	• • • •
NVIDIA® RTX™ 5000 Ada 32 GB	–	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ A6000 48 GB	•	•	• •	• • •	–	• •	• • • •
NVIDIA® RTX™ 5880 Ada 48 GB	–	•	• •	• • •	• • •	• •	• • • •
NVIDIA® RTX™ 6000 Ada 48 GB	–	•	• •	• • •	• • •	• •	• • • •

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	ZCentral 4R	Z4 Rack G5	Z4 G5	Z6 G5	Z6 G5 A	Z8 G5	Z8 Fury G5
Graphics							
Intel® ARC™ Pro A40 6 GB	–	•	•	•	–	•	•
AMD Radeon™ RX 6400 4 GB	–	–	•	•	•	•	•
AMD Radeon™ RX 6700 XT 12 GB	–	–	•	•	–	–	–
AMD Radeon™ PRO W6600 8 GB	–	–	• •	• • •	–	• •	• • •
AMD Radeon™ PRO W6800 32 GB	–	•	• •	• •	–	• •	• •
AMD Radeon™ PRO W7500 8 GB	–	•	•	• • •	• • •	–	• • •
AMD Radeon™ PRO W7600 8 GB	–	•	• •	• • •	• • •	• •	• • •
AMD Radeon™ PRO W7900 48 GB	–	–	•	•	•	•	•

Key Legend:

• single • • • triple

NOTE • • dual • • • • quad

***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® T1000	NVIDIA® A800 Active	NVIDIA® RTX™ A2000	NVIDIA® RTX™ 2000 Ada
Graphics Memory	4 GB GDDR6	4 GB | 8 GB GDDR6	40 GB HBM2	6 GB | 12 GB GDDR6	16 GB GDDR6
Memory Bandwidth	Up to 80 GB/s	Up to 160 GB/s	1,555.2 GB/s	Up to 288 GB/s	224 GB/s
CUDA Cores[5]	384	896	6912	3328	2816
Power	30 W	50 W	240 W	70 W	70 W
Form Factor[3]	Single slot, half height	Single slot, half height	4.4” H x 10.5” L, dual slot	Dual slot, half height	2.7” H x 6.6” L, dual Slot
Max Resolution (DP)[1,4]	5120 x 2880 @60 Hz	7680 x 4320 @60 Hz	N/A	5120 x 2880 @60 Hz	4096 x 2160 @120 Hz
Max Displays	4 with MST	4	N/A	4	4
ISV Certified[2]	Yes	Yes	No	Yes	Yes

Graphics Module	NVIDIA® RTX™ A4000	NVIDIA® RTX™ 4000 Ada	NVIDIA® RTX™ 4000 SFF Ada	NVIDIA® GeForce RTX™ 4060
Graphics Memory	16 GB GDDR6	20 GB GDDR6	20 GB GDDR6	8 GB GDDR6
Memory Bandwidth	Up to 448 GB/s	Up to 360 GB/s	Up to 280 GB/s	272
CUDA Cores[5]	6144	6144	6144	3072
Power	140 W	130 W	70 W	115 W
Form Factor[3]	Single slot, full length	Single slot, full height	Dual slot, half height	4.38” H x 5.7” L
Max Resolution (DP)[1,4]	7680 x 4320 @60 Hz	7680 x 4320 @60 Hz		4K at 240Hz or 8K at 60Hz with DSC
Max Displays	4	4	4	4
ISV Certified[2]	Yes	Yes	Yes	No

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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® RTX™ A4500	NVIDIA® RTX™ 4500 Ada	NVIDIA® RTX™ A5000	NVIDIA® RTX™ 5000 Ada
Graphics Memory	20 GB GDDR6	24 GB GDDR6	24 GB GDDR6	32 GB GDDR6
Memory Bandwidth	Up to 640 GB/s	Up to 432 GB/s	Up to 768 GB/s	Up to 576 GB/s
CUDA Cores[5]	7168	7680	8192	12800
Power	200 W	210 W	230 W	250 W
Form Factor[3]	Dual slot, full height	Dual slot, full height	Dual slot, full height	Dual slot, full height
Max Resolution (DP)[1,4]	5120 x 2880 @60 Hz	7680 x 4320 @60 Hz	5120 x 2880 @60 Hz	
Max Displays	4	4	4	4
ISV Certified[2]	Yes	Yes	Yes	Yes

Graphics Module	NVIDIA® RTX™ A6000	NVIDIA® RTX™ 6000 Ada	NVIDIA® GeForce RTX™ 3050	NVIDIA® GeForce RTX™ 3060
Graphics Memory	48 GB GDDR6	48 GB GDDR6	8GB GDDR6	12 GB GDDR6
Memory Bandwidth	Up to 768 GB/s	Up to 768 GB/s	Up to 224 GB/s	Up to 360 MB/s
CUDA Cores[5]	10752	10888	2560	3584
Power	300 W	300 W	130 W	170W
Form Factor[3]	Dual slot, full height	Dual slot, full height	Dual slot, full height	Dual slot, full height
Max Resolution (DP)[1,4]	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	4	4	4	4
ISV Certified[2]	Yes	Yes	None	None

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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	Intel® ARC™ Pro A40	Intel® ARC™ A380	AMD Radeon™ RX 6300
Graphics Memory	6 GB GDDR6	6 GB GDDR6	2GB GDDR6
Memory Bandwidth	Up to 192 GB/s	Up to 186 GB/s	Up to 56 GB/s
CUDA Cores[5]	128	Xᵉ-Core: 8	768
Power	50 W	75 W	25 W
Form Factor[3]	Single slot, half height	Single slot, full height	Single slot, full height
Max Resolution (DP)[1,4]	7680 x 4320 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	4	4	2
ISV Certified[2]	Yes	No	No

Graphics Module	AMD Radeon™ RX 6400	AMD Radeon™ RX 6700 XT	AMD Radeon™ PRO WX 3200	AMD Radeon™ PRO W6600
Graphics Memory	4 GB GDDR6	12 GB GDDR6	4 GB GDDR5	8 GB GDDR6
Memory Bandwidth	Up to 128 GB/s	Up to 384 GB/s	Up to 96 GB/s	Up to 224 GB/s
CUDA Cores[5]	768	2560	640	1792
Power	53 W	230 W	56 W	130 W
Form Factor[3]	Single slot, half height (2.713" H x 6.137" L)	Dual slot, full length	Single slot, half height	Single slot, full height
Max Resolution (DP)[1,4]	Up to 4x 5120 x 2880 x 24 bpp @60 Hz	5210 x 3200 @60 Hz	5120 x 2880 @60 Hz[2]	5120 x 2880 @60 Hz
Max Displays	4	4	4 or 5 with DP MST	4
ISV Certified[2]	No	No	Yes	Yes

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HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ PRO W6800	AMD Radeon™ PRO W7500	AMD Radeon™ RTX W7600	AMD Radeon™ PRO 7900
Graphics Memory	32 GB GDDR6	8 GB GDDR6	8 GB GDDR6	48 GB GDDR6
Memory Bandwidth	Up to 512 GB/s	Up to 172 GB/s	Up to 288 GB/s	Up to 864 GB/s
CUDA Cores[5]	10888	1700	2440	
Power	3840 W		130 W	295 W
Form Factor[3]	Dual slot, full height	Single slot, full height	Single slot, full height	Triple slot, full height
Max Resolution (DP)[1,4]	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	
Max Displays	6	4	4	3
ISV Certified[2]	Yes	Yes	Yes	Yes

HP ZBooks: Discrete Graphics Offerings

Platform	ZBook Firefly G10	ZBook Power G10	ZBook Studio G10	ZBook Fury G10
Graphics				
NVIDIA® RTX™ A500 4 GB	●	●	-	-
NVIDIA® RTX™ A1000 6 GB	-	●	●	●
NVIDIA® RTX™ 2000 Ada 8 GB	-	●	●	●
NVIDIA® RTX™ 3000 Ada 8 GB	-	●	●	-
NVIDIA® RTX™ 3500 Ada 12 GB	-	-	-	●
NVIDIA® RTX™ 4000 Ada 12 GB	-	-	●	●
NVIDIA® RTX™ 5000 Ada 16 GB	-	-	-	●
NVIDIA® RTX™ 4070 8 GB	-	-	●	-
NVIDIA® RTX™ 4080 12 GB	-	-	●	-

Key Legend:

- ● single

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HP ZBooks: Discrete Graphics Offerings

Platform	ZBook Firefly G11	ZBook Power G11	ZBook Studio G11	Zbook Fury G11
Graphics				
NVIDIA® RTX™ A500 4 GB	●	-	-	-
NVIDIA® RTX™ 500 Ada 4 GB	-	●	-	-
NVIDIA® RTX™ 1000 Ada 6 GB	-	●	●	●
NVIDIA® RTX™ 2000 Ada 8 GB	-	●	●	●
NVIDIA® RTX™ 3000 Ada 8 GB	-	●	●	-
NVIDIA® RTX™ 3500 Ada 12 GB	-	-	-	●
NVIDIA® RTX™ 4000 Ada 12 GB	-	-	-	●
NVIDIA® RTX™ 5000 Ada 16 GB	-	-	-	●
NVIDIA® GeForce RTX™ 4070 8 GB	-	-	●	-

Key Legend:

- ● single

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HP ZBooks: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® T550	NVIDIA® T600	NVIDIA® RTX™ A500	NVIDIA® RTX™ A1000	NVIDIA® RTX™ A2000
Memory	4 GB GDDR6	4 GB GDDR6	4 GB GDDR6	6 GB GDDR6	8 GB GDDR6
Max Cores[2]	1024	896	2048	2048	2560
Max Power[4]	20 W	25 W	20 W	35 W	35 W
Max Resolution (DP)[1]	Determined by CPU[3]	5120 x 2880 @60 Hz	Determined by CPU[3]	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

Graphics Module	NVIDIA® RTX™ A3000	NVIDIA® RTX™ A4500	NVIDIA® RTX™ A5500	AMD Radeon™ PRO W6600M
Memory	12 GB GDDR6	16 GB GDDR6	16 GB GDDR6	8 GB GDDR6
CUDA Cores[2]	4096	5888	7424	1972
Power[4]	60 W	80 W	80 W	80 W
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

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HP ZBooks: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® RTX™ 2000 Ada	NVIDIA® RTX™ 3000 Ada	NVIDIA® RTX™ 3500 Ada	NVIDIA® RTX™ 4000 Ada	NVIDIA® RTX™ 5000 Ada
Memory	8 GB GDDR6	8 GB GDDR6	12 GB GDDR6	12 GB GDDR6	16 GB GDDR6
CUDA Cores[2]	3070	4608	5120	7424	9728
Power[4]	35 W	60 W	60 W	80 W	80 W
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

Graphics Module	NVIDIA® GeForce RTX™ 3060	NVIDIA® GeForce RTX™ 3070 Ti	NVIDIA® GeForce RTX™ 3080 Ti	NVIDIA® GeForce RTX™ 4070	NVIDIA® GeForce RTX™ 4080
Memory	6 GB GDDR6	8 GB GDDR6	16 GB GDDR6	8 GB GDDR6	12 GB GDDR6
CUDA Cores[2]	3584	5888	7424	4608	7424
Power[4]		80 W	80 W	70 W	80 W
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

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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**
NVIDIA® 3D Stereo Bracket	For NVIDIA® RTX A4000, RTX A4500, RTX A5000, RTX A6000 ADA applications **Part number: K0A25AA**
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**
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 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

- 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".

HP Z6 G5, Z6 G5A and Z8 Fury G5A notes

1 NVIDIA® A800 Active requires either the T1000 8 GB, A4000, or 4000 Ada to be configured with it.

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