



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings 2-4

HP Z Desktops: Discrete Graphics Spec Summary 5-8

HP ZBooks: Current Discrete Graphics Offerings 9-10

HP ZBooks: Discrete Graphics Spec Summary 11-12

Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary 13

Z1 Entry Tower: Discrete Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16



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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Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops:
Current Discrete
Graphics Offerings 2-4

HP Z Desktops:
Discrete Graphics
Spec Summary 5-8

HP ZBooks:
Current Discrete
Graphics Offerings 9-10

HP ZBooks:
Discrete Graphics
Spec Summary 11-12

Z1 Entry Tower: Current
Discrete Graphics Spec
Offering and Spec Summary 13

Z1 Entry Tower: Discrete
Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

HP Z Desktops: Current Discrete Graphics Offerings

Platform	Z2 Mini G9	Z2 SFF G9	Z2 Tower G9
Graphics			
NVIDIA® T400 4 GB	•	• •	• •
NVIDIA® T1000 4 GB / 8 GB	• •	• • • •	• • • •
NVIDIA® RTX™ A2000 6 GB / 12 GB	•	•	• •
NVIDIA® RTX™ A4000 16 GB	-	•	• •
NVIDIA® RTX™ 4000 Ada 20 GB	-	•	• •
NVIDIA® RTX™ 4000 SFF Ada 20 GB	•	-	-
NVIDIA® RTX™ A4500 20 GB	-	-	•
NVIDIA® RTX™ A5000 24 GB	-	-	•
NVIDIA® RTX™ 5000 Ada 32 GB	-	-	•
NVIDIA® RTX™ A6000 48 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	-	•	•
AMD Radeon Pro W7900 48 GB	-	-	•

Key Legend:

• single • single (2x memory)

NOTE • • dual • • dual (2x memory)

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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

HP Z Desktops: Current Discrete Graphics Offerings

Platform	ZCentral 4R	Z4 Rack G5	Z4 G5	Z6 G5	Z6 G6 A	Z8 G5	Z8 Fury G5
Graphics							
NVIDIA® T400 4 GB	•	•	••	•••	•••	••	••••
NVIDIA® T1000 4 GB / 8 GB	•• •	•	•• ••	••• •••	•••	•• ••	•••• ••••••
NVIDIA® RTX™ A2000 6 GB / 12 GB	• •	•	••	•••	•••	••	••••
NVIDIA® RTX™ A4000 16 GB	••	•	••	•••	•••	••	••••
NVIDIA® RTX™ 4000 Ada 20 GB	-	•	••	•••	-	-	••••
NVIDIA® RTX™ A4500 20 GB	•	•	••	•••	•••	••	••••
NVIDIA® RTX™ A5000 24 GB	•	•	••	•••	-	••	••••
NVIDIA® RTX™ 5000 Ada 32 GB	-	-	••	•••	•••	-	••••
NVIDIA® RTX™ A6000 48 GB	•	•	••	•••	-	•	••••
NVIDIA® RTX™ 6000 Ada 48 GB	-	•	••	•••	•••	••	••••
Intel® ARC™ Pro A40 6 GB	-	•	•	•	-	•	•
AMD Radeon™ RX 6400 4 GB	-	-	-	•	•	•	•
AMD Radeon™ RX 6700 XT 12 GB	-	-	•	•	-	-	-

Key Legend:

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

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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

HP Z Desktops: Current Discrete Graphics Offerings

Platform	ZCentral 4R	Z4 Rack G5	Z4 G5	Z6 G5	Z6 G6 A	Z8 G5	Z8 Fury G5
Graphics							
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**



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops:
Current Discrete
Graphics Offerings 2-4

**HP Z Desktops:
Discrete Graphics
Spec Summary 5-8**

HP ZBooks:
Current Discrete
Graphics Offerings 9-10

HP ZBooks:
Discrete Graphics
Spec Summary 11-12

Z1 Entry Tower: Current
Discrete Graphics Spec
Offering and Spec Summary 13

Z1 Entry Tower: Discrete
Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® T400	NVIDIA® T1000	NVIDIA® RTX™ A2000
Graphics Memory	4 GB GDDR6	4 GB 8 GB GDDR6	6 GB 12 GB GDDR6
Memory Bandwidth	Up to 80 GB/s	Up to 160 GB/s	Up to 288 GB/s
Cores ⁵	384	896	3328
Power	30 W	50 W	70 W
Form Factor ³	Single slot, half height	Single slot, half height	Dual slot, half height
Max Resolution (DP) ^{1,4}	7680 x 4320 @60 Hz	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz
Max Displays	4 with MST	4	4
ISV Certified ²	Yes	Yes	Yes

Graphics Module	NVIDIA® RTX™ A4000	NVIDIA® RTX™ 4000 Ada	NVIDIA® RTX™ 4000 SFF Ada
Graphics Memory	16 GB GDDR6	20 GB GDDR6	20 GB GDDR6
Memory Bandwidth	Up to 448 GB/s	Up to 360 GB/s	Up to 280 GB/s
Cores ⁵	6144	6144	6144
Power	140 W	130 W	70 W
Form Factor ³	Single slot, full length	Single slot, full height	Dual slot, half height
Max Resolution (DP) ^{1,4}	7680 x 4320 @60 Hz	7680 x 4320 @60 Hz	
Max Displays	4	4	4
ISV Certified ²	Yes	Yes	Yes



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops:
Current Discrete
Graphics Offerings 2-4

**HP Z Desktops:
Discrete Graphics
Spec Summary 5-8**

HP ZBooks:
Current Discrete
Graphics Offerings 9-10

HP ZBooks:
Discrete Graphics
Spec Summary 11-12

Z1 Entry Tower: Current
Discrete Graphics Spec
Offering and Spec Summary 13

Z1 Entry Tower: Discrete
Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® RTX™ A4500	NVIDIA® RTX™ A5000	NVIDIA® RTX™ 5000 Ada
Graphics Memory	20 GB GDDR6	24 GB GDDR6	32 GB GDDR6
Memory Bandwidth	Up to 640 GB/s	Up to 768 GB/s	Up to 576 GB/s
Cores ⁵	7168	8192	12800
Power	200 W	230 W	250 W
Form Factor ³	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	
Max Displays	4	4	4
ISV Certified ²	Yes	Yes	Yes

Graphics Module	NVIDIA® RTX™ A6000	NVIDIA® RTX™ 6000 Ada	Intel® ARC™ Pro A40
Graphics Memory	48 GB GDDR6	48 GB GDDR6	6 GB GDDR6
Memory Bandwidth	Up to 768 GB/s	Up to 768 GB/s	Up to 192 GB/s
Cores ⁵	10752	10888	128
Power	300 W	300 W	50 W
Form Factor ³	Dual slot, full height	Dual slot, full height	Single slot, half height
Max Resolution (DP) ^{1,4}	5120 x 2880 @60 Hz	5120 x 2880 @60 Hz	7680 x 4320 @60 Hz
Max Displays	4	4	4
ISV Certified ²	Yes	Yes	Yes



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops:
Current Discrete
Graphics Offerings 2-4

**HP Z Desktops:
Discrete Graphics
Spec Summary 5-8**

HP ZBooks:
Current Discrete
Graphics Offerings 9-10

HP ZBooks:
Discrete Graphics
Spec Summary 11-12

Z1 Entry Tower: Current
Discrete Graphics Spec
Offering and Spec Summary 13

Z1 Entry Tower: Discrete
Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ RX 6400	AMD Radeon™ RX 6700 XT	AMD Radeon™ Pro WX 3200
Graphics Memory	4 GB GDDR6	12 GB GDDR6	4 GB GDDR5
Memory Bandwidth	Up to 128 GB/s	Up to 384 GB/s	Up to 96 GB/s
Cores ⁵	768	2560	640
Power	53 W	230 W	56 W
Form Factor ³	Single slot, half height (2.713" H x 6.137" L)	Dual slot, full length	Single slot, half 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
Max Displays	4	4	4 or 5 with DP MST
ISV Certified ²	No	No	Yes

Graphics Module	AMD Radeon™ Pro W6600	AMD Radeon™ Pro W6800	AMD Radeon™ Pro W7500
Graphics Memory	8 GB GDDR6	32 GB GDDR6	8 GB GDDR6
Memory Bandwidth	Up to 224 GB/s	Up to 512 GB/s	Up to 172 GB/s
Cores ⁵	1792	10888	1700
Power	130 W	3840	
Form Factor ³	Single slot, full height	Dual slot, full height	Single 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	4	6	4
ISV Certified ²	Yes	Yes	Yes



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops:
Current Discrete
Graphics Offerings 2-4

**HP Z Desktops:
Discrete Graphics
Spec Summary 5-8**

HP ZBooks:
Current Discrete
Graphics Offerings 9-10

HP ZBooks:
Discrete Graphics
Spec Summary 11-12

Z1 Entry Tower: Current
Discrete Graphics Spec
Offering and Spec Summary 13

Z1 Entry Tower: Discrete
Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

HP Z Desktops: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ RTX W7600	AMD Radeon™ Pro 7900
Graphics Memory	8 GB GDDR6	48 GB GDDR6
Memory Bandwidth	Up to 288 GB/s	Up to 864 GB/s
Cores ⁵	2440	
Power	130 W	295 W
Form Factor ³	Single slot, full height	Triple slot, full height
Max Resolution (DP) ^{1,4}	5120 x 2880 @60 Hz	
Max Displays	4	3
ISV Certified ²	Yes	Yes



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

HP ZBooks: Current Discrete Graphics Offerings

Platform	ZBook Firefly G9	ZBook Power G9	ZBook Studio G9	ZBook Fury G9
Graphics				
NVIDIA® T550 4 GB	•	-	-	-
NVIDIA® T600 4 GB	-	•	-	-
NVIDIA® RTX™ A500 4 GB	•	-	-	-
NVIDIA® RTX™ A1000 6 GB	-	•	•	•
NVIDIA® RTX™ A2000 8 GB	-	•	•	•
NVIDIA® RTX™ A3000 12 GB	-	-	•	•
NVIDIA® RTX™ A4500 20 GB	-	-	•	•
NVIDIA® RTX™ A5500 16 GB	-	-	•	-
NVIDIA® RTX™ 3060 6 GB	-	-	•	-
NVIDIA® RTX™ 3070 Ti 8 GB	-	-	•	-
NVIDIA® RTX™ 3080 Ti 16 GB	-	-	•	-
AMD RADEON™ Pro W6600 8 GB	-	-	-	•

Key Legend:

- single



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

HP ZBooks: Current 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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

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

HP ZBooks: Discrete Graphics Spec Summary

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
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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

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
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
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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings 2-4

HP Z Desktops: Discrete Graphics Spec Summary 5-8

HP ZBooks: Current Discrete Graphics Offerings 9-10

HP ZBooks: Discrete Graphics Spec Summary 11-12

Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary 13

Z1 Entry Tower: Discrete Graphics Spec Summary 14

Graphic Accessories 15

Additional Resources 16

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

Z1 G9

Graphics

NVIDIA® T400
4 GB

•

NVIDIA® T1000
4 GB / 8 GB

•

NVIDIA® GeForce RTX™ 3050
8 GB

•

NVIDIA® GeForce RTX™ 3060
12 GB

•

NVIDIA® GeForce RTX™ 3070
8 GB

•

Intel® ARC™ A380
6 GB

•

AMD Radeon™ RX 6300
2 GB

•

Key Legend:

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

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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

Z1 Entry Tower: Discrete Graphics Spec Summary

Graphics Module	AMD Radeon™ RX 6300	NVIDIA® T400	NVIDIA® T1000	Intel® ARC™ A380
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
Max Resolution (DP) ¹	7680x4320 @60 Hz	3x5120x2880 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	2	4 with MST	4	4
ISV Certified	No	Yes	Yes	No

Z1 Entry Tower: Discrete Graphics Spec Summary

Graphics Module	NVIDIA® GeForce RTX™ 3050	NVIDIA® GeForce RTX™ 3060	NVIDIA® GeForce RTX™ 3070
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
Max Resolution (DP) ¹	7680x4320 @60 Hz	7680x4320 @60 Hz	7680x4320 @60 Hz
Max Displays	4	4	4
ISV Certified	None	None	None



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings 2-4

HP Z Desktops: Discrete Graphics Spec Summary 5-8

HP ZBooks: Current Discrete Graphics Offerings 9-10

HP ZBooks: Discrete Graphics Spec Summary 11-12

Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary 13

Z1 Entry Tower: Discrete Graphics Spec Summary 14

Graphic Accesories 15

Additional Resources 16

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: 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
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



Graphics Quick Reference Guide

Contents & navigation

HP Z Desktops: Current Discrete Graphics Offerings	2-4
HP Z Desktops: Discrete Graphics Spec Summary	5-8
HP ZBooks: Current Discrete Graphics Offerings	9-10
HP ZBooks: Discrete Graphics Spec Summary	11-12
Z1 Entry Tower: Current Discrete Graphics Spec Offering and Spec Summary	13
Z1 Entry Tower: Discrete Graphics Spec Summary	14
Graphic Accessories	15
Additional Resources	16

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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