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HP WORKSTATIONS GRAPHICS CARD OPTIONS

QUICK REFERENCE GUIDE

PROFESSIONAL GRAPHICS SOLUTIONS FOR HP Z WORKSTATIONS

HP is proud to exclusively offer professional graphics choices on all of our HP Workstations—from the HP ZBook Mobile Workstation family to our ultimate workstation, the HP Z8.

HP's professional graphics line-up is perfect for users who are running business critical applications based on OpenGL and DirectX® 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.

1. HP recommends Windows 10.



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HP DESKTOP WORKSTATIONS GRAPHICS SUPPORT MATRIX¹

Platform		HP Z2 Mini G4	HP Z2 SFF G4	HP Z2 Tower G4	HP Z4 G4	HP Z6 G4	HP Z8 G4
Graphics	Category						
Intel® UHD Graphics 630	Office 2D	•	•	•			
Intel® UHD Graphics P630	Entry 3D	•	•	•			
AMD FirePro™ W2100	Entry 3D				••	••	••
AMD Radeon™ Pro WX 3100	Low-end 3D		•	•	••	••	••
AMD Radeon™ Pro WX 4100	Mid-range 3D				••*	••*	••••*
AMD Radeon™ Pro WX 4150	Mid-range 3D		•**				
AMD Radeon™ Pro WX 7100	High-end 3D			•	••	••	••••
AMD Radeon™ Pro WX 9100	Ultra 3D				•	•	•
NVIDIA® Quadro® P400	Sub-entry 3D		•	•	••	••	••
NVIDIA® Quadro® P600	Entry 3D		•***		••	••	••
NVIDIA® Quadro® P620	Entry 3D		•	•	••	••	••
NVIDIA® Quadro® P1000	Mid-range 3D		•***	•	••	••••	•••••
NVIDIA® Quadro® P2000	Mid-range 3D			•	••	••	•••••
NVIDIA® Quadro® P4000	High-end 3D			•	••	••	••••
NVIDIA® Quadro® P5000 ¹	Ultra 3D			•	•	••	••••
NVIDIA® Quadro® P6000 ¹	Ultra 3D				•	•	••••
NVIDIA® Quadro® GP100	Ultra HD				•	•	••••
NVIDIA® Quadro® GV100	Ultra 3D				••		••••

Key Legend:

- single
- dual
- triple
- quad

Note:

- *Offered via AMO.
- ** MXM module (AMD Radeon™ Pro WX 4150 4 GB)
- *** MXM module (NVIDIA® Quadro® P600 4 GB, NVIDIA® Quadro® P1000 4 GB)



TECHNICAL WHITE PAPER

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HP DESKTOP WORKSTATIONS INTEGRATED GRAPHICS SPEC SUMMARY

Graphics Module	Intel® UHD Graphics 630	Intel® UHD Graphics P630
Graphics Category	Office 2D	Entry 3D
Memory (shared with system)	up to 64 GB	-
Execution Units	24	-
DirectX Support ²	12	-
OpenGL Support	4.5	-
Max Resolution (DP) ³	4096 x 2304 @ 60 Hz	-
Max Displays	3	-
Video Outputs:		
HP Z2 Mini	-	-
HP Z2 SFF	-	-
HP Z2 Tower	-	-
ISV Certified	-	-
Other	-	-



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HP DESKTOP WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY

Graphics Module	NVIDIA® Quadro® P400	NVIDIA® Quadro® P600	NVIDIA® Quadro® P600 MXM	NVIDIA® Quadro® P620	AMD Fire Pro™ W2100	AMD Radeon™ Pro WX 3100	AMD Radeon™ Pro WX 4150 MXM
Graphics Category	Sub-entry 3D	Entry 3D	Entry 3D	Entry 3D	Entry 3D	Entry 3D	Entry 3D
Memory (dedicated memory)	2 GB GDDR5	2 GB GDDR5	4 GB GDDR5	2 GB GDDR5	2 GB DDR3	4 GB GDDR5	4 GB GDDR5
Memory Bandwidth	Up to 32 GB/s	Up to 64 GB/s	-	Up to 64 GB/s	14.4 GB/s	96 GB/s	-
Cores	256	384	384	512	320	512	896
Power	30 W	40 W	25 W	40 W	26 W	35 W	35 W
Host Interface	PCIe 3.0 x16	PCI Express 3.0 x16	On system board	PCI Express 3.0 x16	PCIe x8, Gen 3	PCIe x16, Gen 3	MXM
Form Factor	single slot, Half Height	single slot, Half Height	-	single slot, Half Height	single slot, Half Height	single slot, Half Height	-
DirectX Support ²	12/12	12/12	12	12/12	11.2/12	12/12	12
OpenGL Support	4.5	4.5	4.5	4.5	4.4	4.5	4.5
Max Resolution (DP) ³	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 ⁴	5120 x 2880 @ 60 Hz ⁵	5120 x 2880 @ 60 Hz
Max Displays	3	4	4	4	2	4 or 6 with DP MST	5
Video Outputs	4x mini-DP	4x mini-DP	-	4x mini-DP	2x DP	1x DP + 2x mDP 1.4	-
Included Video Cables:							
CTO	None	None	-	None	None	None	-
AMO	2x mini-DP to DP	2x mini-DP to DP	-	2x mini-DP to DP	None	None	-
ISV Certified	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other	GPU Boost 3.0, CUDA®, Mosaic™	GPU Boost 3.0, CUDA®, Mosaic™	CUDA®	GPU Boost 3.0, CUDA®, Mosaic™	OpenCL™ 2.0	AMD® Sync, OpenCL™ 2.0, Eyefinity, DirectGMA, FreeSync, HDR Ready	OpenCL™ 2.0



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HP DESKTOP WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY (CONTINUED)

Graphics Module	NVIDIA® Quadro® P1000	NVIDIA® Quadro® P1000 MXM	AMD Radeon™ Pro WX 4100	NVIDIA® Quadro® P2000
Graphics Category	Mid-range 3D	Mid-range 3D	Mid-range 3D	Mid-range 3D
Memory (shared with system)	4 GB GDDR5	4 GB GDDR5	4 GB GDDR5	5 GB GDDR5
Memory Bandwidth	Up to 80 GB/s	-	160 GB/s	Up to 140 GB/s
Cores	1024	640	1024	1024
Power	47 W	40 W	50 W	75 W
Host Interface	PCIe x16, Gen 3	MXM	PCIe x16, Gen 3	PCIe x16, Gen 3
Form Factor	single slot, Full Height	-	single slot, Half Height	single slot, Full Height
DirectX Support ²	12/12	12	12/12	12/12
OpenGL Support	4.5	4.5	4.5	4.5
Max Resolution (DP) ³	5120 x 2880 @ 60 Hz	5120 x 2880 @ 60 Hz	5120 x 2880 @ 60 Hz ⁵	5120 x 2880 @ 60 Hz
Max Displays	4	4	4 or 6 with DP MST	4
Video Outputs	4x mini-DP	-	4x mDP 1.4	4x DP 1.4
Included Video Cables:				
CTO	None	-	None	None
AMO	2x mini-DP to DP	-	4x mini-DP to DP	None
ISV Certified	Yes	Yes	Yes	Yes
Other	GPU Boost 3.0, CUDA®, Mosaic™	CUDA®	AMD® Sync, OpenCL™ 2.0, Eyefinity, DirectGMA, FreeSync, HDR Ready	GPU Boost 3.0, CUDA®, Mosaic™



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HP DESKTOP WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY (CONTINUED)

Graphics Module	AMD Radeon™ Pro WX 7100	NVIDIA® Quadro® P4000	NVIDIA® Quadro® P5000
Graphics Category	High-end 3D	High-end 3D	High-end 3D
Memory (shared with system)	8 GB GDDR5	8 GB GDDR5	16 GB GDDR5X
Memory Bandwidth	224 GB/s	Up to 243 GB/s	288 GB/s
Cores	2304	1792	2560
Power	130 W	120 W	180 W
Host Interface	PCIe x16, Gen 3	PCIe x16, Gen 3	PCIe x16, Gen 3
Form Factor	single slot, Full Height	single slot, Full Height	dual slot, Full Height
DirectX Support ²	12/12	12/12	12/12
OpenGL Support	4.5	4.5	4.5
Max Resolution (DP) ³	5120 x 2880 @ 60 Hz ⁵	5120x2880 @ 60Hz	5120 x 2880 @ 60 Hz
Max Displays	4 or 6 with DP MST	4	4
Video Outputs	4x DP 1.4	4x DP 1.4	4x DP 1.4 and DL-DVI
Included Video Cables:			
CTO	None	None	None
AMO	None	None	None
ISV Certified	Yes	Yes	Yes
Other	AMD® Sync, OpenCL™ 2.0, Eyefinity, DirectGMA, FreeSync, HDR Ready, VR Enabled	Quadro® Sync II, GPUDirect, GPU Boost 3.0, SLI®, CUDA®, Mosaic™, VR Ready	Quadro® Sync II, GPUDirect, GPU Boost 3.0, SLI®, CUDA®, Mosaic™, VR Ready



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HP DESKTOP WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY (CONTINUED)

Graphics Module	NVIDIA® Quadro® P6000	NVIDIA® Quadro® GP100	NVIDIA® Quadro® GV100	AMD Radeon™ Pro WX 9100
Graphics Category	Ultra 3D	Ultra 3D	Ultra 3D	Ultra 3D
Memory (shared with system)	24 GB GDDR5X	16 GB HBM2	32 GB HBM2	16 GB HBM2
Memory Bandwidth	432 GB/s	717 GB/s	870 GB/s	483 GB/s
Cores	3840	3584	5120	4096
Power	250 W	235 W	250 W	250 W
Host Interface	PCIe x16, Gen 3	PCIe x16, Gen 3	PCIe x16, Gen 3	PCIe x16, Gen 3
Form Factor	dual slot, Full Height	dual slot, Full Height	dual slot, Full Height	dual slot, Full Height
DirectX Support ²	12/12	12/12	12/12	12/12.1
OpenGL Support	4.5	4.5	4.5	4.5
Max Resolution (DP) ³	5120 x 2880 @ 60 Hz	5120 x 2880 @ 60 Hz	5120 x 2880 @ 60Hz	7680 x 4320 @ 60Hz ⁸
Max Displays	4	4	4	6
Video Outputs	4x DP 1.4 and DL-DVI	4x DP 1.4 and DL-DVI	4x DP 1.4	6x mDP 1.4
Included Video Cables:				
CTO	None	None	None	None
AMO	None	None	None	2x mini-DP to DP
ISV Certified	Yes	Yes ⁶	Yes ⁶	Yes
Other	Quadro® Sync II, GPUDirect, GPU Boost 3.0, SLI®, CUDA®, Mosaic™, VR Ready	Quadro® Sync II, GPUDirect, GPU Boost 3.0, CUDA®, Mosaic™, VR Ready, Multi-GPU Scalability NVLink (2-way) ⁷	Quadro® Sync II, GPUDirect, GPU Boost 3.0, CUDA®, Mosaic™, VR Ready, Multi-GPU Scalability NVLink (2-way) ⁷	AMD® Sync, OpenCL™ 2.0, Eyefinity, DirectGMA, FreeSync, HDR Ready, VR Ready



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HP MOBILE WORKSTATIONS GRAPHICS SUPPORT MATRIX

		HP ZBook 14u G5/ 15u G5	HP ZBook x2 G4	HP ZBook Studio x360 G5	HP ZBook Studio G5	HP ZBook 15v G5	HP ZBook 15 G5	HP ZBook 17 G5	HP Z VR Backpack
Graphics	Category								
Intel® HD Graphics 620	Office 2D		•						
Intel® UHD Graphics 620	Office 2D		•						
Intel® UHD Graphics 630	Office 2D	•		•	•	•	•	•	
Intel® UHD Graphics P630	Entry 3D			•	•	•	•	•	
AMD Radeon™ Pro WX3100	Entry 3D	•							
AMD Radeon™ Pro WX 4150	Entry 3D						•		
AMD Radeon™ Pro WX 4170	Mid-range 3D							•	
NVIDIA® Quadro® M620	Entry 3D		•						
NVIDIA® Quadro® P600	Entry 3D					•			
NVIDIA® Quadro® P1000	Mid-range 3D			•	•		•	•	
NVIDIA® Quadro® P2000	Mid-range 3D						•	•	
NVIDIA® Quadro® P3200	High-end 3D							•	
NVIDIA® Quadro® P4200	High-end 3D							•	
NVIDIA® Quadro® P5200	Ultra 3D							•	•

Key Legend:

- single



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HP MOBILE WORKSTATIONS INTEGRATED GRAPHICS SPEC SUMMARY

Graphics Module	Intel® HD Graphics 620	Intel® UHD Graphics 620	Intel® UHD Graphics 630	Intel® UHD Graphics P630
Graphics Category	Office 2D	Office 2D	Office 2D	Entry 3D
Memory (shared with system)	up to 32 GB	up to 32 GB	up to 64 GB	up to 1.7 GB
Execution Units	24	24	24	24
DirectX Support	12	12	12	12
OpenGL Support	4.4	4.4	4.5	4.5
Max Resolution (DP) ¹	4096 x 2304 @ 60 Hz	4096 x 2304 @ 60 Hz	4096 x 2304 @ 60 Hz	4096 x 2304 @ 60 Hz
Max Displays ¹	3	3	3	3
ISV Certified	No	No	No	Yes
Other	OpenCL™ 2.0	OpenCL™ 2.0	OpenCL™ 2.0	OpenCL™ 2.0



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HP MOBILE WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY

Graphics Module	NVIDIA® Quadro® M620	NVIDIA® Quadro® P600	AMD Radeon™ Pro WX 3100	AMD Radeon™ Pro WX 4150	AMD Radeon™ Pro WX 4170
Graphics Category	Entry 3D	Entry 3D	Entry 3D	Entry 3D	Mid-range 3D
Memory	2 GB GDDR5	4 GB GDDR5	2 GB GDDR5	4 GB GDDR5	4 GB GDDR5
Cores	512	384	512	896	1024
Power	30 W	25 W	18 W	35 W	50 W
Host Interface	MXM	On system board	On system board	MXM	MXM
DirectX Support	12	12	12	12	12
OpenGL Support	4.5	4.5	4.5	4.5	4.5
Max Resolution (DP) ³	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 ³	4	4	4	5	5
ISV Certified	Yes	Yes	Yes	Yes	Yes
Other	CUDA®	CUDA®	OpenCL™ 2.0 , Vulkan 1.0	OpenCL™ 2.0	OpenCL™ 2.0

HP MOBILE WORKSTATIONS DISCRETE GRAPHICS SPEC SUMMARY (CONTINUED)

Graphics Module	NVIDIA® Quadro® P1000	NVIDIA® Quadro® P2000	NVIDIA® Quadro® P3200	NVIDIA® Quadro® P4200	NVIDIA® Quadro® P5200
Graphics Category	Mid-range 3D	Mid-range 3D	High-end 3D	High-end 3D	Ultra 3D
Memory	4 GB GDDR5	4 GB GDDR5	6 GB GDDR5	8 GB GDDR5	16 GB GDDR5
Cores	640	768	1792	-	2560
Power	40 W	50 W	78 W	80 W	100 W ⁵
Host Interface	MXM ²	MXM	MXM	MXM	MXM
DirectX Support	12	12	12	12	12
OpenGL Support	4.5	4.5	4.5	4.5	4.5
Max Resolution (DP) ³	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 ³	4	4	4	4	4
ISV Certified	Yes	Yes	Yes	Yes	Yes
Other	CUDA®	CUDA®	CUDA®	CUDA®	CUDA®



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DisplayPort™ to DVI-D	Single link DVI-D support (max 1920x1200 @ 60 Hz) Part number: FH973AA
DisplayPort™ to dual link DVI	Dual link DVI-D supports 2560x1600 @60 Hz Part number: NR078AA
DisplayPort™ to HDMI 4K Adapter	Supports audio over DP, supports UHD up to 30 Hz and True 4K up to 24 Hz (HDMI 1.4) Part number: K2K92AA
DisplayPort™ to VGA	VGA support Part number: AS615AA
DMS-59 to dual DVI-I	Transmits two DVI-I signals via single connector and split into 2 DVI-I connectors Part number: DL139AA
DMS-59 to dual VGA	Transmits two VGA signals via single connector and split into 2 VGA connectors Part number: G5567AA
DMS-59 to dual DisplayPort™	Transmits two DP protocols via single connector and split into 2 DP connectors Part number: XP688AA
DVI to VGA	VGA support Part number: VE053AA
6-pin to 8-pin Power Adapter	HP Z Workstation PSU adaptor for graphics Part number: N1G35AA
6-pin to Dual 6-pin Power Adapter	HP Z Workstation PSU adaptor for graphics Part number: F5J05AA
NVIDIA® Quadro® Sync	For NVIDIA® Quadro® M4000, M5000, M6000 applications Part number: G5K57AA
NVIDIA® SLI® Connector	For NVIDIA® Quadro® M4000, M5000, M6000, P5000, P6000 applications but with 4K display limitation Part number: PP654A
NVIDIA® SLI® 2-Slot Connector	For NVIDIA® Quadro® P4000, P5000, and P6000 on HP Z4 G4 or HP Z8 G4 Part number: 2YY84A
NVIDIA® SLI® 3-Slot Connector	For NVIDIA® Quadro® P4000, P5000, and P6000 on HP Z6 G4 Part number: 2YY85AA
NVIDIA® 3D Stereo Bracket	For NVIDIA® Quadro® M4000, M5000, M6000, P5000, P6000 applications Part number: KOA25AA
NVIDIA® Quadro® Sync II	For NVIDIA® Quadro® P4000, P5000, P6000, GP100, Part number: 1ZE81AA
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® GP100 NVLINK Bridge Kit (Pair)	To connect two GP100 graphics cards for GPU-compute scaling Part number: 2YY86AA
HP NVIDIA® GV100 NVLINK Bridge Kit (Pair)	To connect two GV100 graphics cards for GPU-compute scaling Part number: 3NZ66AA



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ADDITIONAL RESOURCES

Resources, contacts, or additional links

AMD FirePro™ Professional Graphics amd.com/en-us/solutions/workstations

NVIDIA® Quadro® Graphics nvidia.com/object/hp_workstations.html

High Performance Computing www8.hp.com/us/en/campaigns/workstations/gpu-computing.html

Learn more at hp.com/go/leadershipgraphics

SOURCES AND LEGAL DISCLAIMERS

HP Z Desktop Workstation notes

- ¹ Please refer to platform specifications and ordering guides for applicable configuration restrictions.
- ² 1st/2nd where 1st is DirectX HW level version support, and 2nd is SW API DirectX version support.
- ³ Not all video outputs of the graphics card may support the stated Max Resolution. See the card QuickSpecs for details and any restrictions.
- ⁴ Two video card DP outputs must be cabled using two DP cables to a 5K (5120x2880) display that accepts dual DP inputs (such as the HP Z27q).
- ⁵ 2x dual DP 1.3 cabled 5k displays max., or 1x single cable DP 1.4.
- ⁶ Tested by select ISVs.
- ⁷ NVLink is not supported due to mechanical limitation.
- ⁸ 6x DP 1.3 4K @60 Hz or 3x 5K @60 Hz or 1x 8K @60 Hz.

HP ZBook Mobile Workstation and HP Z VR Backpack notes

- ¹ On system board for the HP ZBook Studio G4.
- ² On system board for the HP ZBook Studio G3.
- ³ See Mobile Workstation system specifications for display output types and max displays supported.
- ⁴ 4 GB GDDR5 configuration offered on HP ZBook Studio G3 only.
- ⁵ HP Z VR Backpack enables 150 W GPU.

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