

AMD Radeon™ PRO 7000 Series Linecard



Radeon™ PRO W7500



Radeon™ PRO W7600



Radeon™ PRO W7700



Radeon™ PRO W7800



Radeon™ PRO W7900

Market Segment	Mid-Range		High-End	Ultra High-End	
Workload Segment	Medium		Advanced	Heavy	Extreme
Model-Level Name	AMD Radeon™ PRO W7500 Workstation Graphics (8GB GDDR6 Memory)	AMD Radeon™ PRO W7600 Workstation Graphics (8GB GDDR6 Memory)	AMD Radeon™ PRO W7700 Workstation Graphics (16GB GDDR6 Memory)	AMD Radeon™ PRO W7800 Workstation Graphics (32GB GDDR6 Memory)	AMD Radeon™ PRO W7900 Workstation Graphics (48GB GDDR6 Memory)
Model-Level Name (Shorten)	AMD Radeon™ PRO W7500 Workstation Graphics	AMD Radeon™ PRO W7600 Workstation Graphics	AMD Radeon™ PRO W7700 Workstation Graphics	AMD Radeon™ PRO W7800 Workstation Graphics	AMD Radeon™ PRO W7900 Workstation Graphics
GPU Architecture	AMD RDNA™ 3	AMD RDNA™ 3	AMD RDNA™ 3	AMD RDNA™ 3	AMD RDNA™ 3
Graphics Memory	8 GB GDDR6	8 GB GDDR6	16 GB GDDR6 with ECC Support	32 GB GDDR6 with ECC Support	48 GB GDDR6 with ECC Support
Memory Interface	128-bit	128-bit	256-bit	256-bit	384-bit
Memory Bandwidth	Up to 173 GB/s	Up to 288 GB/s	Up to 576 GB/s	Up to 576 GB/s	Up to 864 GB/s
Peak Half Precision Performance (FP16)	24.38 TFLOPs	39.98 TFLOPs	56.54 TFLOPs	90.50 TFLOPs	122.64 TFLOPs
Peak Single-Precision Performance (FP32)	12.19 TFLOPs	19.99 TFLOPs	28.27 TFLOPs	45.25 TFLOPs	61.32 TFLOPs
Peak Double-Precision Performance (FP64)	0.38 TFLOPs	0.62 TFLOPs	0.88 TFLOPs	1.41 TFLOPs	1.92 TFLOPs
Compute Units	28	32	48	70	96
Ray Accelerators	28	32	48	70	96
AI Accelerators	56	64	96	140	192
Stream Processors	1700	2440	3072	4480	6144
PCI Express® Support	4.0 Ready (x8)	4.0 Ready (x8)	4.0 Ready (x16)	4.0 Ready (x16)	4.0 Ready (x16)
Total Board Power	70 W	130 W	190 W	260 W	295 W
Power Connectors	None	1x6-Pin Power Connectors	1x8-Pin Power Connectors	2x8-Pin Power Connectors	2x8-Pin Power Connectors
Cooling	Active	Active	Active	Active	Active
Board Form Factor	8.5" (216 mm), Single Slot, Full Height	9.5" (241 mm), Single Slot, Full Height	9.5" (241 mm), Double Slot, Full Height	11" (280 mm), Double Slot, Full Height	11" (280 mm), Triple Slot, Full Height
Display Connectors	4x DisplayPort™ 2.1 (UHBR 10)	4x DisplayPort™ 2.1 (UHBR 10)	4x DisplayPort™ 2.1 (UHBR 13.5)	1x Mini DisplayPort™ 2.1 (UHBR 20) 3x DisplayPort™ 2.1 (UHBR 13.5)	1x Mini DisplayPort™ 2.1 (UHBR 20) 3x DisplayPort™ 2.1 (UHBR 13.5)
Maximum Simultaneous Display Configuration	4x @ 3840x2160px (4K) 4x @ 5120x2880px (5K) 2x @ 7680x4320px (8K)	4x @ 3840x2160px (4K) 4x @ 5120x2880px (5K) 2x @ 7680x4320px (8K)	4x 4096 x 2160 (4K DCI) @ 120Hz with DSC 2x 6144 x 3456 (6K) 12-bit HDR @ 60Hz 1x 7680 x 4320 (8K) 12-bit HDR @ 60Hz 1x 12288 x 6912 (12K) @ 120Hz with DSC	4x 4096x2160 (4K DCI) @ 120Hz with DSC 2x 6144x3456 (6K) 12-bit HDR @ 60Hz 1x 7680x4320 (8K) 12-bit HDR @ 60Hz 1x 12288x6912 (12K) @ 120Hz with DSC	4x 4096x2160 (4K DCI) @ 120Hz with DSC 2x 6144x3456 (6K) 12-bit HDR @ 60Hz 1x 7680x4320 (8K) 12-bit HDR @ 60Hz 1x 12288x6912 (12K) @ 120Hz with DSC

AMD Radeon™ PRO 7000 Series Linecard



Radeon™ PRO W7500



Radeon™ PRO W7600



Radeon™ PRO W7700



Radeon™ PRO W7800



Radeon™ PRO W7900

HDR Support	✓	✓	✓	✓	✓
8K Support	✓	✓	✓	✓	✓
12K Support	✓	✓	✓	✓	✓
10-Bit Color Ready	✓	✓	✓	✓	✓
12-Bit Color Ready	✓	✓	✓	✓	✓
Supported Rendering Formats	1x Encode & Decode (H265/HEVC, H264) 1x Encode & Decode (AV1) ¹	1x Encode & Decode (H265/HEVC, H264) 1x Encode & Decode (AV1) ¹	2x Encode & Decode (H265/HEVC, H264) 1x Encode & Decode (AV1) ¹	2x Encode & Decode (H265/HEVC, H264) 1x Encode & Decode (AV1) ¹	2x Encode & Decode (H265/HEVC, H264) 1x Encode & Decode (AV1) ¹
VR and Realtime Ready	✓	✓	✓	✓	✓
3D Stereo Support	✓	✓	✓	✓	✓
Supported Technologies	AMD Remote Workstation AMD Radeon™ Media Engine AMD Software: PRO Edition AMD Radeon™ VR Ready Creator AMD Eyefinity Technology (Professionals) AMD Radeon™ ProRender	AMD Remote Workstation AMD Radeon™ Media Engine AMD Software: PRO Edition AMD Radeon™ VR Ready Creator AMD Eyefinity Technology (Professionals) AMD Radeon™ ProRender	AMD Remote Workstation AMD Radeon™ Media Engine AMD Software: PRO Edition AMD Radeon™ VR Ready Creator AMD Eyefinity Technology (Professionals) AMD Radeon™ ProRender	AMD Remote Workstation AMD Radeon™ Media Engine AMD Software: PRO Edition AMD Radeon™ VR Ready Creator AMD Eyefinity Technology (Professionals) AMD Radeon™ ProRender	AMD Remote Workstation AMD Radeon™ Media Engine AMD Software: PRO Edition AMD Radeon™ VR Ready Creator AMD Eyefinity Technology (Professionals) AMD Radeon™ ProRender
Supported APIs	DirectX®: 12.0 Ultimate OpenCL™: 2.1 OpenGL®: 4.6 Vulkan®: 1.3	DirectX®: 12.0 Ultimate OpenCL™: 2.1 OpenGL®: 4.6 Vulkan®: 1.3	DirectX®: 12.0 Ultimate OpenCL™: 2.1 OpenGL®: 4.6 Vulkan®: 1.3	DirectX®: 12.0 Ultimate OpenCL™: 2.1 OpenGL®: 4.6 Vulkan®: 1.3	DirectX®: 12.0 Ultimate OpenCL™: 2.1 OpenGL®: 4.6 Vulkan®: 1.3
Supported Operating Systems	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition Linux x86_64-Bit	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition Linux x86_64-Bit	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition Linux x86_64-Bit	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition Linux x86_64-Bit	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition Linux x86_64-Bit
OPN	100-300000161 (China) 100-300000078 (Rest of World)	100-300000160 (China) 100-300000077 (Rest of World)	100-300000006 (China) 100-300000006 (Rest of World)	100-300000164 (China) 100-300000075 (Rest of World)	100-300000163 (China) 100-300000074 (Rest of World)
UPC / EAN	7 2741931585 2 / 0 727419 315852 (China) 7 2741931486 2 / 0 727419 314862 (Rest of World)	7 2741931584 5 / 0 727419 315845 (China) 7 2741931485 5 / 0 727419 314855 (Rest of World)	7 2741931499 2 / 0 727419 314992 (China) 7 2741931499 2 / 0 727419 314992 (Rest of World)	7 2741931583 8 / 0 727419 315838 (China) 7 2741931488 6 / 0 727419 314886 (Rest of World)	7 2741931582 1 / 0 727419 315821 (China) 7 2741931487 9 / 0 727419 314879 (Rest of World)

¹ Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176