ZRT 智锐通

Empowering Tomorrow's AI Computing

NVIDIA Quadro MXM GPU Module

PRODUCT CATALOG

Shenzhen ZRT Technology Co., Ltd
深圳智锐通科技有限公司

www.zrt-tech.com

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		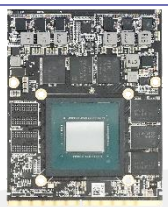			
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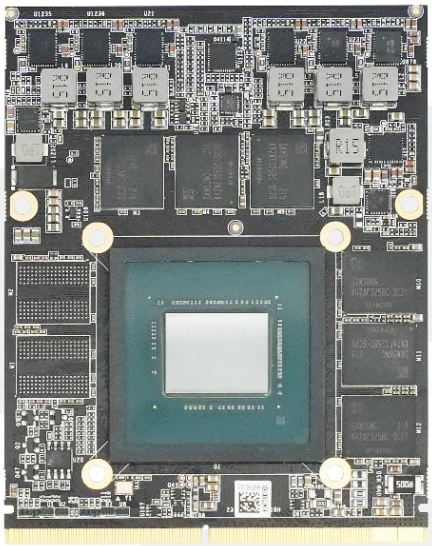
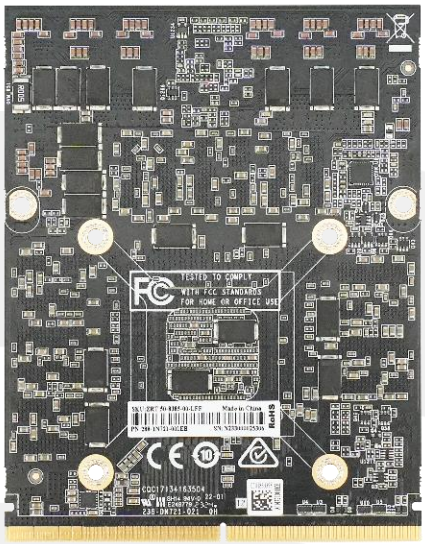
NVIDIA Quadro Ada Lovelace Series

NVIDIA Quadro RTX3500m 12G GDDR6 Type B MXM3.1





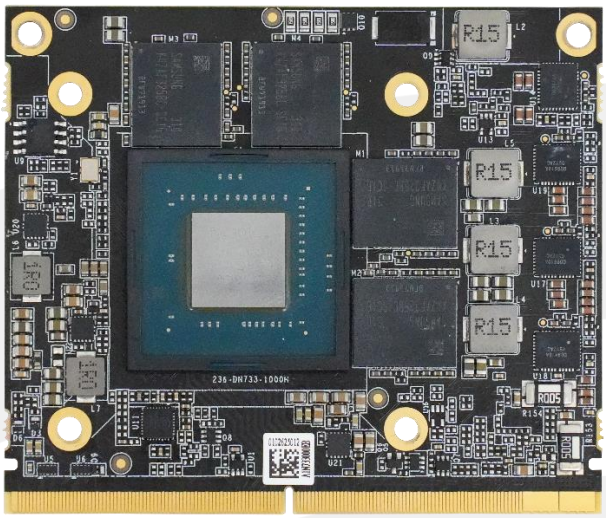
Specification

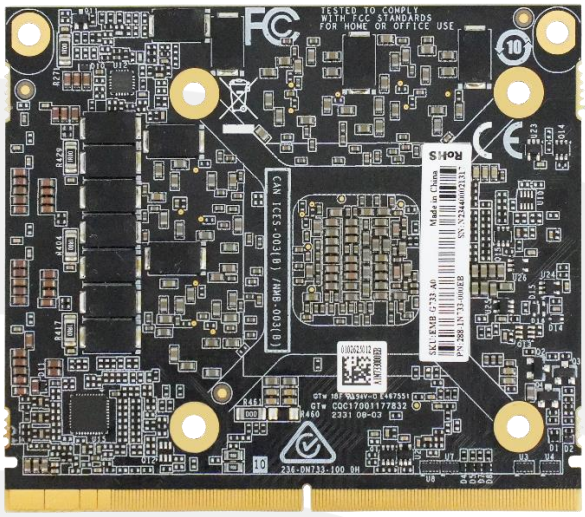
Model	MMR3500B6-12G
GPU Architecture	NVIDIA Ada Lovelace
Graphics Processing Unit	NVIDIA Quadro RTX3500m
NVIDIA CUDA Core	5120SP
Memory Size	12G 192bit GDDR6
Graphics Clock	1725MHz / 2250MHz (Boost)
Memory Bandwidth	432GB/s
Tensor cores	160
RT cores	40
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	110W
Direct X	12
OpenGL	4.6
Operation System	Windows 11、Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score
3Dmark13	FS:35142 FSE:17028 FSU:8274
3Dmark11	E29613 P27399 X14859
Heaven	99230
鲁大师	5181

NVIDIA Quadro Ada Lovelace Series

NVIDIA Quadro RTX2000m 8G GDDR6 Type A MXM3.1





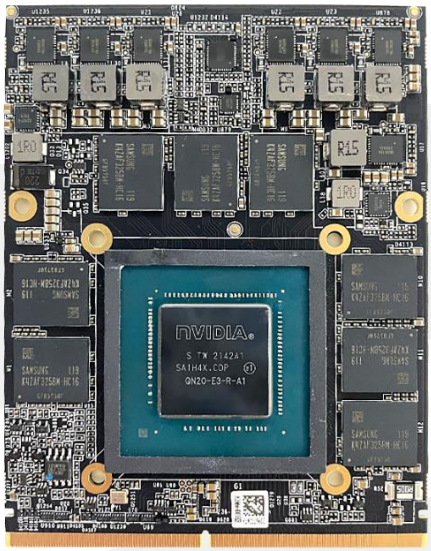
Specification

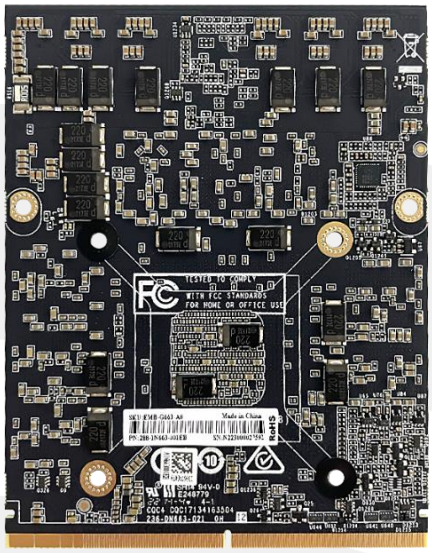
Model	MMR2000A6-8G
GPU Architecture	NVIDIA Ada Lovelace
Graphics Processing Unit	NVIDIA Quadro RTX2000m
NVIDIA CUDA Core	3072SP
Memory Size	8G 128bit GDDR6
Graphics Clock	1635MHz / 21150MHz (Boost)
Memory Bandwidth	256GB/s
Tensor cores	96
RT cores	24
Board Dimensions	MXM Graphics Module Version 3.1 Type A (70x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++
Board Power	56.5W
Direct X	12
OpenGL	4.6
Operation System	Windows 11、Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score
3Dmark13	FSU:4582 FSE:9797 FS:21464
3Dmark11	E25844 P21364 X9278
Heaven	5336
鲁大师	317555

NVIDIA Quadro Ampere Series

NVIDIA Quadro A4500m 16G GDDR6 Type B MXM3.1





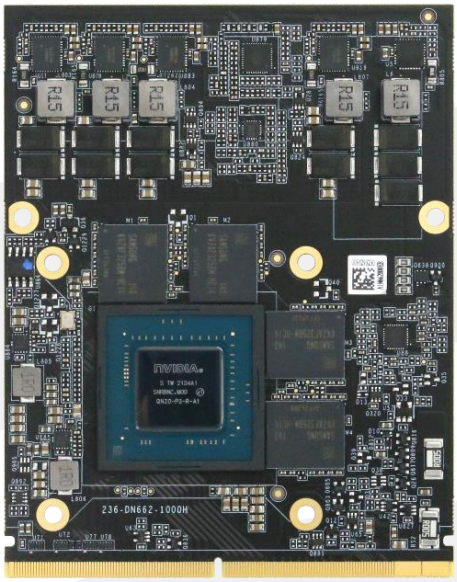
Specification

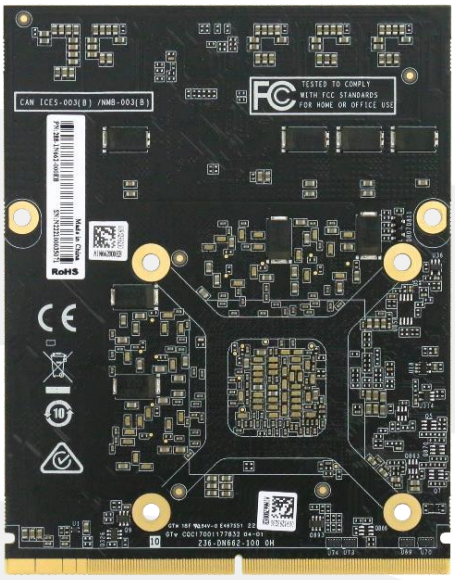
Model	MMA4500B6-16G
GPU Architecture	NVIDIA Ampere
Graphics Processing Unit	NVIDIA Quadro A4500m
NVIDIA CUDA Core	5888SP
Memory Size	16G 256bit GDDR6
Graphics Clock	1020MHz / 1575MHz (Boost)
Memory Bandwidth	512GB/s
Tensor cores	232
RT cores	58
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	130W
Direct X	12 / 4.6
Operation System	Windows 11、Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:27316 FSE:13288 FSU:6600	Cuda	
3Dmark11	E26516 P23473 X11964	single kernels	7889.81 / 108910
Heaven	4108	N=10 w/o streams	10126.4 / 266.439
鲁大师	385571	N=10 with streams	9853.04 / 281.048
glmark2	11128	N=10 batched	9904.23 / 281.008

NVIDIA Quadro Ampere Series

NVIDIA Quadro A2000m 8G GDDR6 Type B MXM3.1





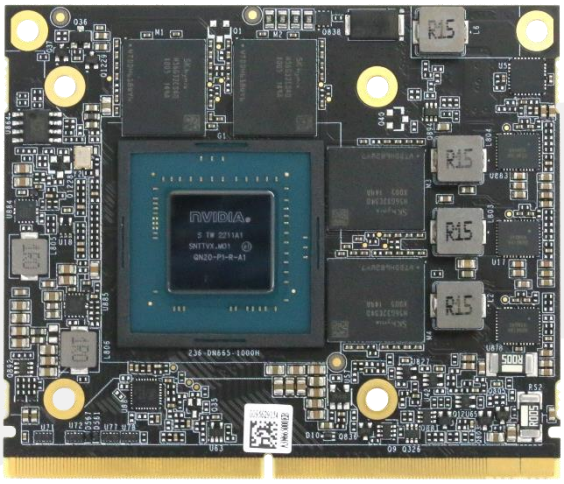
Specification

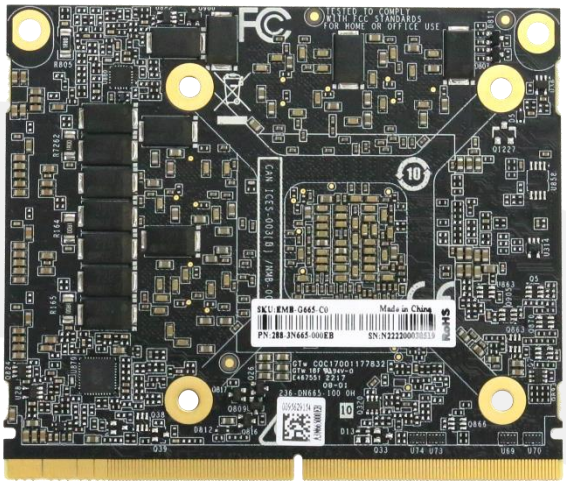
Model	MMA2000B6-8G
GPU Architecture	NVIDIA Ampere
Graphics Processing Unit	NVIDIA Quadro A2000m
NVIDIA CUDA Core	2560SP
Memory Size	8G 128bit GDDR6
Graphics Clock	1387MHz / 1815MHz (Boost)
Memory Clock	1750MHz (14.0Gbps)
Single Precision FLOPS	9456GFLOPS
Double Precision FLOPS	155.1GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	80W
Operation System	Windows 11、Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:14887 FSE:6880 FSU:3325	Cuda	
3Dmark11	E21114 P16289 X6739	single kernels	689.432 / 5406.84
Heaven	2200	N=10 w/o streams	4500.91 / 106.915
鲁大师	161382	N=10 with streams	5488.8 / 134.173
glmark2	11100	N=10 batched	5187.23 / 133.465

NVIDIA Quadro Ampere Series

NVIDIA Quadro A1000m 4G GDDR6 Type A MXM3.1





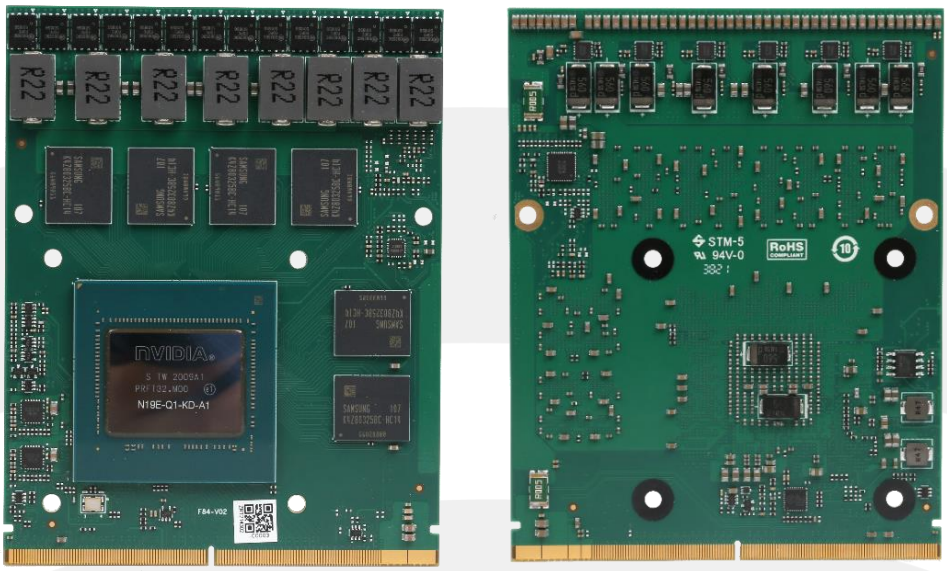
Specification

Model	MMA1000A6-4G
GPU Architecture	NVIDIA Ampere
Graphics Processing Unit	NVIDIA Quadro A1000m
NVIDIA CUDA Core	2048SP
Memory Size	4G 128bit GDDR6
Graphics Clock	1192MHz / 1627MHz (Boost)
Memory Clock	1750MHz (14.0Gbps)
Memory Bandwidth	224.0GB/s
Single Precision FLOPS	7652GFLOPS
Double Precision FLOPS	124.1GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type A (70x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	60W
Operation System	Windows 11、Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
glmark2	10071	Cuda	
3Dmark13 FS	FS:11916 FSE:5596 FSU:2471	single kernels	562.699 / 5249.91
3Dmark11	E18995 P14150 X5473	N=10 w/o streams	4168.93 / 105.786
3Dmark Vantage	53278	N=10 with streams	4769.3 / 105.847
Heaven	1635	N=10 batched	4012.55 / 105.841
鲁大师	10860		

NVIDIA Quadro Turing Series

NVIDIA Quadro RTX3000m 6G GDDR6 Type B MXM3.1



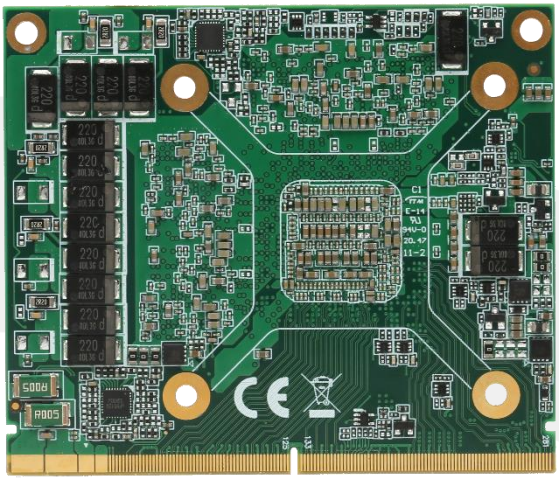
Specification

Model	MMR3000B6-6G
GPU Architecture	NVIDIA Turing
Graphics Processing Unit	NVIDIA Quadro RTX3000m
NVIDIA CUDA Core	1920SP
Memory Size	6G 192bit GDDR6
Graphics Clock	945MHz / 1380MHz (Boost)
Memory Clock	1750MHz (7.0Gbps)
Single Precision FLOPS	6820GFLOPS
Double Precision FLOPS	223.5GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	82W
Operation System	Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:15709 FSE:7287 FSU:3462	**Cuda**	
3Dmark11	E21557 P16749 X6954	**single kernels**	3103.59 / 86451.8
Heaven	4065	**N=10 w/o streams**	5278.91 / 225.733
鲁大师	200677	**N=10 with streams**	5315.12 / 277.525
glmark2	12248	**N=10 batched**	5096.35 / 225.435

NVIDIA Quadro Turing Series

NVIDIA Quadro T1000m 4G GDDR6 Type A MXM3.1



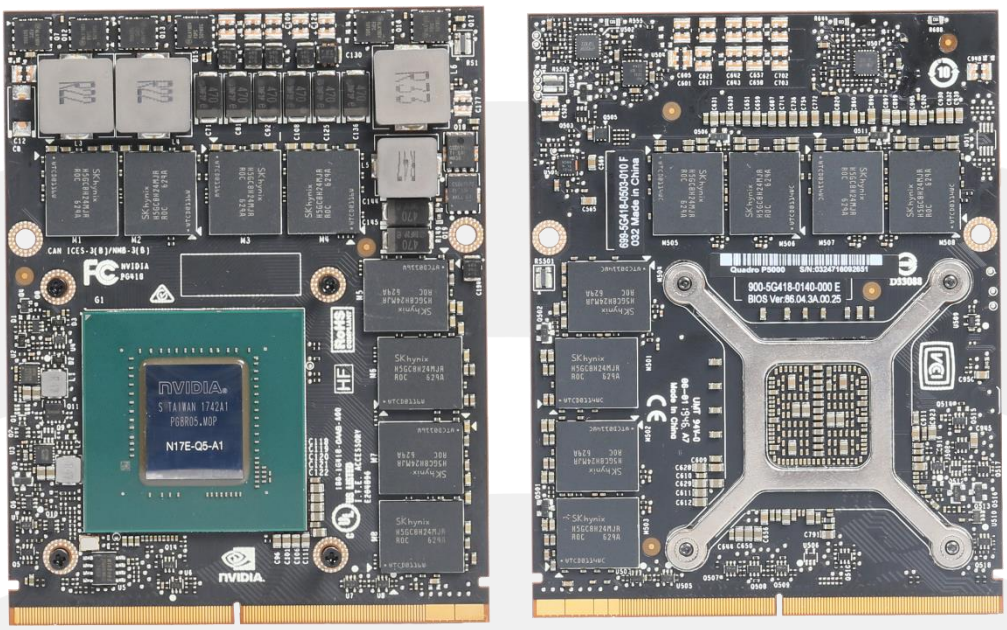
Specification:

Model	MMT1000A6-4G
GPU Architecture	NVIDIA Turing
Graphics Processing Unit	NVIDIA Quadro T1000m
NVIDIA CUDA Core	896SP
Memory Size	4G 128bit GDDR6
Graphics Clock	1395MHz / 1650MHz (Boost)
Memory Clock	1500MHz (12.0Gbps)
Memory Bandwidth	192.0GB/s
Single Precision FLOPS	3458GFLOPS
Double Precision FLOPS	107.7GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type A (70x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	45W
Operation System	Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
glmark2	10071	**Cuda**	
3Dmark13 FS	FS:9749 FSE:4365 FSU:1975	**single kernels**	2336.12 / 57831.1
3Dmark11	E18436 P12993 X4539	**N=10 w/o streams**	2629.1 / 106.733
3Dmark Vantage	43970	**N=10 with streams**	3169.43 / 107.89
Heaven	1105	**N=10 batched**	1835.12 / 107.791
鲁大师	116398		

NVIDIA Quadro Pascal Series

NVIDIA Quadro P5000m 16G GDDR5 Type B MXM3.1



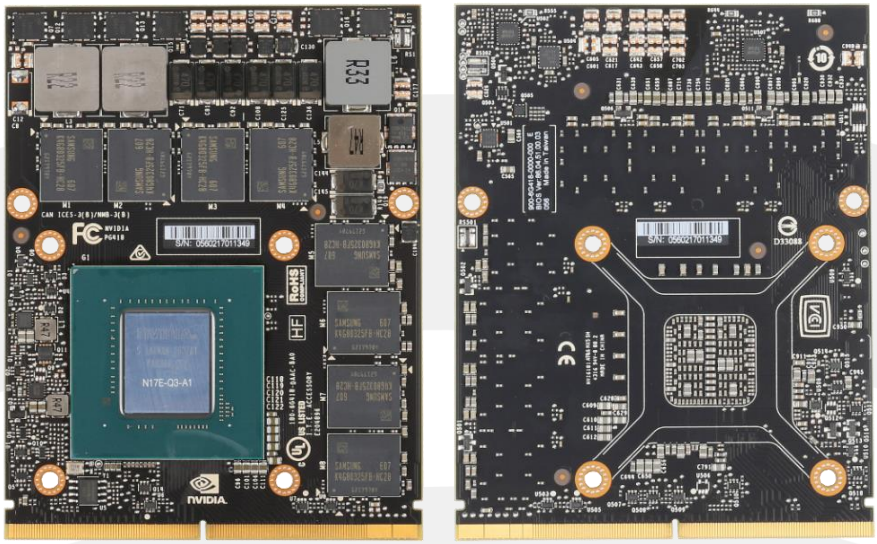
Specification:

Model	MMP5000B5-16G
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro P5000m
NVIDIA CUDA Core	2048SP
Memory Size	16G 256bit GDDR5
Graphics Clock	1278MHz / 1582MHz (Boost)
Memory Clock	1502MHz (6.0Gbps)
Memory Bandwidth	192.3GB/s
Single Precision FLOPS	6494GFLOPS
Double Precision FLOPS	209.1GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	112W
Operation System	Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13 FS	12720	Cuda	
3Dmark11	P15413 X6876	single kernels	4367.13 / 155.763
3Dmark Vantage	41550	N=10 w/o streams	4915.69 /198.913
Heaven	5630	N=10 with streams	5395.71 / 197.42
鲁大师	199701	N=10 batched	6098.41 / 199.216

NVIDIA Quadro Pascal Series

NVIDIA Quadro P4000m 8G GDDR5 Type B MXM3.1



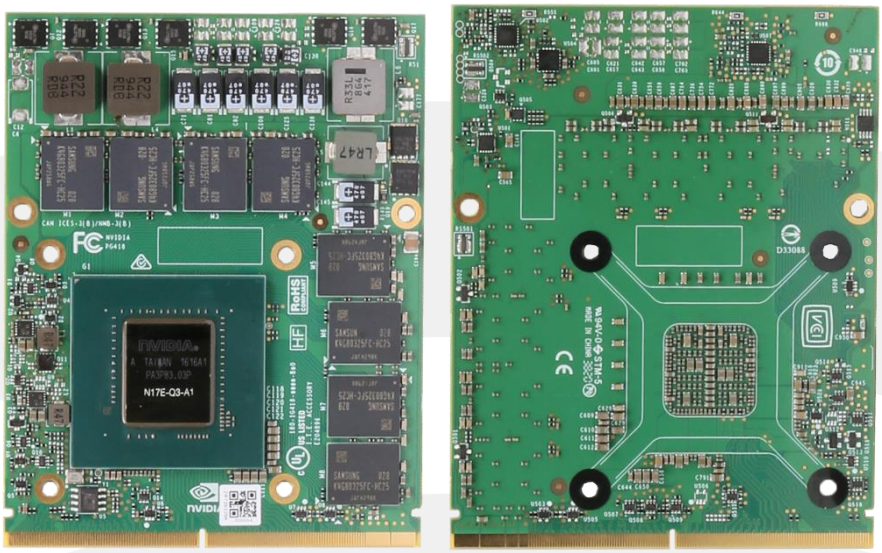
Specification:

Model	MMP4000B5-8G V2
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro P4000m
NVIDIA CUDA Core	1792SP
Memory Size	8G 256bit GDDR5
Graphics Clock	1202MHz / 1228MHz (Boost)
Memory Clock	1502MHz (6.0Gbps)
Single Precision FLOPS	4112GFLOPS
Double Precision FLOPS	135.7GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	92W
Operation System	Windows 7/8/8.1/10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:12446 FSE:5959 FSU:2912	**Cuda**	
3Dmark11	E17273 P13451 X5532	**single kernels**	3674.16 / 118.685
Heaven	1881	**N=10 w/o streams**	3573.27 / 121.955
鲁大师	152555	**N=10 with streams**	3716.97 / 119.576
glmark2	12494	**N=10 batched**	4011.49 / 120.57

NVIDIA Quadro Pascal Series

NVIDIA Quadro P4000m 8G GDDR5 Type B MXM3.1



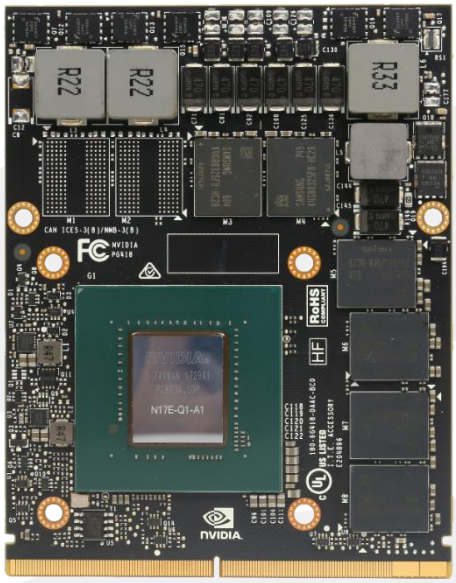
Specification:

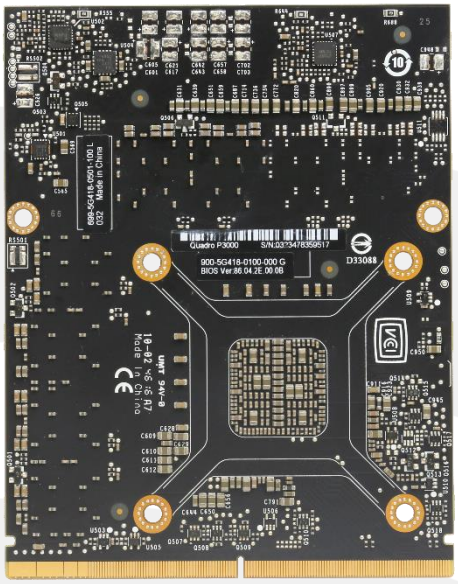
Model	MMP4000B5-8G
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro P4000m
NVIDIA CUDA Core	1920SP
Memory Size	8G 256bit GDDR5
Graphics Clock	1202MHz / 1228MHz (Boost)
Memory Clock	1502MHz (6.0Gbps)
Single Precision FLOPS	4528GFLOPS
Double Precision FLOPS	150.3GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	85W
Operation System	Windows 7/8/8.1/10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:13130 FSE:6220 FSU:3102	**Cuda**	
3Dmark11	E17572 P14013 X5880	**single kernels**	3894.01 / 142.081
Heaven	3048	**N=10 w/o streams**	4112.14 / 142.202
鲁大师	161566	**N=10 with streams**	4059.76 / 142.968
glmark2	11801	**N=10 batched**	4457.41 / 142.986

NVIDIA Quadro Pascal Series

NVIDIA Quadro P3000m 6G GDDR5 Type B MXM3.1





Specification:

Model	MMP3000B5-6G
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro P3000m
NVIDIA CUDA Core	1280SP
Memory Size	6G 192bit GDDR5
Graphics Clock	1088MHz / 1215MHz (Boost)
Memory Clock	1752MHz (7.0Gbps)
Single Precision FLOPS	2908GFLOPS
Double Precision FLOPS	96.52GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type B (105x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	87W
Operation System	Windows 7/8/8.1/10 64bit、Linux 64bit
Operating Temperature	0~45℃

Benchmark	Score	Benchmark	Score
3Dmark13	FS:9361 FSE:4409 FSU:2138	**Cuda**	
3Dmark11	E14916 P10889 X4065	**single kernels**	2306.53 / 91.1071
Heaven	1323	**N=10 w/o streams**	2588.46 / 91.3833
鲁大师	111895	**N=10 with streams**	2564.41 / 91.6849
glmark2	9979	**N=10 batched**	2853.39 / 91.6422

NVIDIA Quadro Pascal Series

NVIDIA Quadro P2000m 4G GDDR5 Type A MXM3.1

Specification:

Model	MMP2000A5-4G
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro Embedded P2000m
NVIDIA CUDA Core	768SP
Memory Size	4G 128bit GDDR5
Graphics Clock	1455MHz / 1481MHz (Boost)
Memory Clock	1502MHz (6.0Gbps)
Single Precision FLOPS	2214GFLOPS
Double Precision FLOPS	69.76GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type A (70x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	58W
Operation System	Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃
Storage Temperature	-20~75℃

Benchmark	Score	Benchmark	Score
3Dmark13 FS	6800	**Cuda**	
3Dmark11	E8589 P6821 X2962	**single kernels**	1785.5 / 65.0026
3Dmark Vantage	29823	**N=10 w/o streams**	1851.34 / 65.8818
Heaven	2711	**N=10 with streams**	1881.4 / 66.1985
鲁大师	81544	**N=10 batched**	2063.9 / 65.6442

NVIDIA Quadro Pascal Series

NVIDIA Quadro P1000m 4G GDDR5 Type A MXM3.1

Specification:

Model	MMP1000A5-4G
GPU Architecture	NVIDIA Pascal
Graphics Processing Unit	NVIDIA Quadro Embedded P1000m
NVIDIA CUDA Core	512SP
Memory Size	4G 128bit GDDR5
Graphics Clock	1354MHz / 1392MHz (Boost)
Memory Clock	1502MHz (6.0Gbps)
Single Precision FLOPS	1407GFLOPS
Double Precision FLOPS	44.14GFLOPS
Board Dimensions	MXM Graphics Module Version 3.1 Type A (70x82mm)
Display Features	DP A: Display Port 1.4++ DP B: Display Port 1.4++ DP C: Display Port 1.4++ DP D: Display Port 1.4++
Board Power	58W
Operation System	Windows 10 64bit、Linux 64bit
Operating Temperature	0~45℃
Storage Temperature	-20~75℃

Benchmark	Score		
3Dmark13 FS	4580	**Cuda**	
3Dmark11	E7726 P5573 X2023	**single kernels**	1164.74 / 41.5765
3Dmark Vantage	20859	**N=10 w/o streams**	1221.94 / 41.8201
Heaven	1816	**N=10 with streams**	1198.93 / 41.6121
鲁大师	50528	**N=10 batched**	1298.74 / 41.6423

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Official & Youtube

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2024版 Version 2024. All specifications are subject to change without prior notice. This information is for reference only, and the company reserves the right of interpretation.