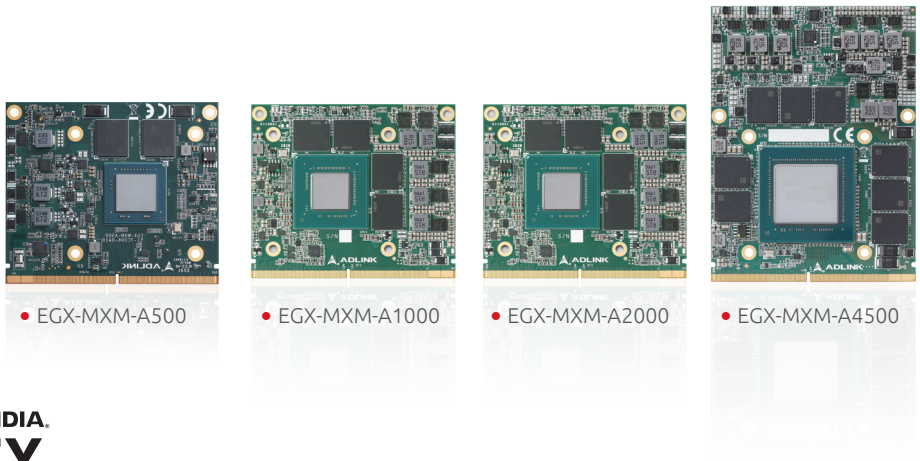
ADLINK
LEADING EDGE COMPUTING

Embedded MXM Modules (NVIDIA Ampere Architecture)

Mobile PCI Express Modules with NVIDIA Embedded GPUs



- EGX-MXM-A500
- EGX-MXM-A1000
- EGX-MXM-A2000
- EGX-MXM-A4500

NVIDIA ELITE PARTNER

NVIDIA RTX

Features

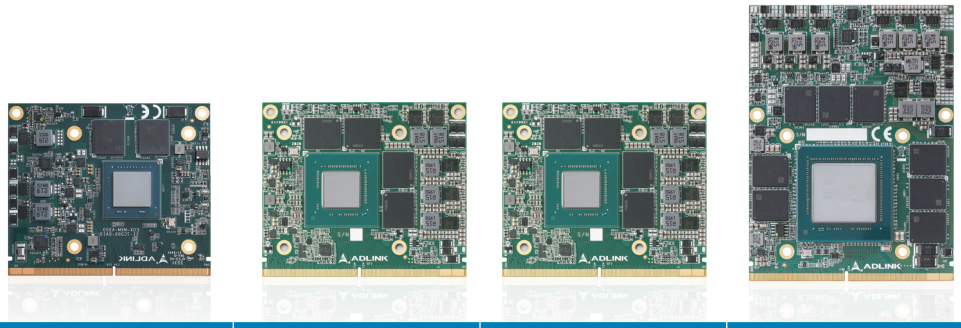
- NVIDIA embedded graphics based on Ampere architecture
- Standard MXM 3.1 Type A/B form factor
- PCIe Gen 4 up to x16 interface
- Up to 5888 CUDA® cores, 46 RT Cores, and 184 Tensor Cores
- Up to 17.66 TFLOPS peak FP32 performance
- Up to 16GB GDDR6 memory, 256-bit
- Up to 512GB/s maximal memory bandwidth
- Support up to 4 DP 1.4a displays, 115W TGP
- 5-year availability

Ordering Information

EGX-MXM-A500	Embedded NVIDIA® RTX™ A500, MXM 3.1 type A, 82 x 70mm, PCIe Gen4 x4
EGX-MXM-A1000	Embedded NVIDIA® RTX™ A1000, MXM 3.1 type A, 82 x 70mm, PCIe Gen4 x8
EGX-MXM-A2000	Embedded NVIDIA® RTX™ A2000, MXM 3.1 type A, 82 x 70mm, PCIe Gen4 x8
EGX-MXM-A4500	Embedded NVIDIA® RTX™ A4500, MXM 3.1 type B, 82 x 105mm, PCIe Gen4 x16

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Specifications



Model Name	EGX-MXM-A500	EGX-MXM-A1000	EGX-MXM-A2000	EGX-MXM-A4500
Graphic Core				
GPU	NVIDIA RTX™ A500 GA107-950 GPU	NVIDIA RTX™ A1000 GA107-950 GPU	NVIDIA RTX™ A2000 GA107-980 GPU	NVIDIA RTX™ A4500 GA104-955 GPU
Memory	2/4GB GDDR6 memory, 64-bit, Bandwidth: 96GB/s	4GB GDDR6 memory, 128-bit, Bandwidth: 192 GB/s	4GB/8GB GDDR6 memory, 128-bit, Bandwidth: 192 GB/s	8GB/16GB GDDR6 memory, 256-bit, Bandwidth: 512 GB/s
GPGPU Computing				
CUDA Cores	2048 CUDA Cores		2560 CUDA cores	5888 CUDA cores
	6.54 TFLOPS Peak FP32 performance	6.66 TFLOPS Peak FP32 performance	8.25 TFLOPS peak FP32 performance	17.66 TFLOPS peak FP32 performance
Tensor Cores	64 Tensor Cores		80 Tensor Cores	184 Tensor Cores
RT Cores	16 RT Cores		20 RT Cores	46 RT Cores
Compute API	CUDA Compute 8.0 and above, OpenCL™ 1.2			
Graphics API	DirectX® 12, OpenGL 4.6			
Display				
Display Outputs	N/A	4x DisplayPort 1.4, HDMI 2.1* 4K at 120Hz or 8K at 60Hz		
Interface	MXM 3.1, PCIe 4.0 x4 support	MXM 3.1, PCIe 4.0 x8 support		MXM 3.1, PCIe 4.0 x16 support
Mechanicals				
Dimensions	82 (W) x 70 (D) x 4.8 (H) mm			82 (W) x 105 (D) x 4.8 (H) mm
Form Factor	Standard MXM 3.1 Type A			Standard MXM 3.1 Type B
Environmental				
Operating Temperature	Standard: 0°C to 55°C ETT: -20°C to 70°C			
Storage Temperature	-40°C to 85°C			
Module Power Consumption	25W-40W TGP	35W or 60W TGP		80W or 115W TGP
SW Support				
OS Support	Windows 11, 10 & Linux Drivers, 64-bit			

* Require custom VBIOS. Tech support available upon request.

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