# Embedded MXM Modules
# NVIDIA Ada Lovelace Architecture

## Mobile PCI Express Modules with NVIDIA Embedded GPUs



• EGX-MXM-AD2000



• EGX-MXM-AD3500



• EGX-MXM-AD5000

## Features

- NVIDIA embedded graphics based on Ada Lovelace architecture
- Standard MXM 3.1 Type A/B form factor
- PCIe Gen 4 up to x16 interface
- Up to 9728 CUDA® cores, 76 RT Cores, and 304 Tensor Cores
- Up to 42.6 TFLOPS peak FP32 performance
- Up to 16GB GDDR6 memory, 256-bit
- Up to 576GB/s memory bandwidth
- Support up to 4 DP 1.4a displays, 115W TGP
- 5-year availability

## Ordering Information

| | |
|---|---|
| EGX-MXM-AD2000 | Embedded NVIDIA® RTX™ ADA 2000, MXM 3.1 Type A, 82 x 70mm, PCIe Gen4 x8 |
| EGX-MXM-AD3500 | Embedded NVIDIA® RTX™ ADA 3500, MXM 3.1 Type B, 82 x 105mm, PCIe Gen4 x16 |
| EGX-MXM-AD5000 | Embedded NVIDIA® RTX™ ADA 5000, MXM 3.1 Type B, 82 x 105mm, PCIe Gen4 x16 |

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## Specifications







| Model Name | EGX-MXM-AD2000 | EGX-MXM-AD3500 | EGX-MXM-AD5000 |
|---|---|---|---|
| **Graphic Core** | | | |
| Graphic Architecture | NVIDIA RTX™ 2000 ADA AD107-975 GPU | NVIDIA RTX™ 3500 ADA AD104-925 GPU | NVIDIA RTX™ 5000 ADA AD103-950-955 GPU |
| Memory | 8GB GDDR6 memory, 128-bit, Bandwidth: 256GB/s | 12GB GDDR6 memory, 192-bit, Bandwidth: 432GB/s | 16GB GDDR6 memory, 256-bit, Bandwidth: 576GB/s |
| ECC Support | Yes | Yes | Yes |
| **GPGPU Computing** | | | |
| CUDA® Cores | 3,072 CUDA® Cores, 14.5 TFLOPS Peak FP32 Performance | 5,120 CUDA® Cores, 23 TFLOPS Peak FP32 Performance | 9,728 CUDA® Cores, 42.6 TFLOPS Peak FP32 Performance |
| Tensor Cores | 96 | 160 | 304 |
| RT Cores | 24 | 40 | 76 |
| Compute API | CUDA® Toolkit 8.0 and above, CUDA® Compute version 8 and above, OpenCL™ 1.2 | | |
| Graphics API | DirectX® 12.1, OpenGL® 4.6 | | |
| **Display** | | | |
| Display Outputs | 3x DP 1.4a | 4x DP 1.4a | 4x DP 1.4a |
| | HDMI 2.1, 4K at 120Hz or 8K at 60Hz with 10-bit color depth | | |
| Interface | PCIe Gen4 x8 | PCIe Gen4 x16 | PCIe Gen4 x16 |
| **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 – 55˚C<br>Extended Temperature: -20˚C – 70˚C | | |
| Storage Temperature | -40˚C – 85˚C | | |
| Module Power Consumption | 60W | 115W | |
| **SW Support** | | | |
| OS Support | Windows 11, 10 & Linux Drivers, 64-bit | | |

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