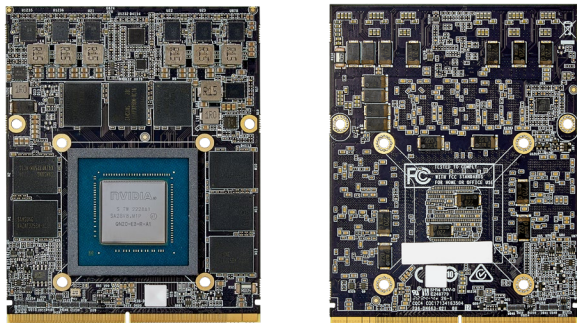


# AI Accelerator &GPU

## MXM Module EBK-MXM-A4500 Series



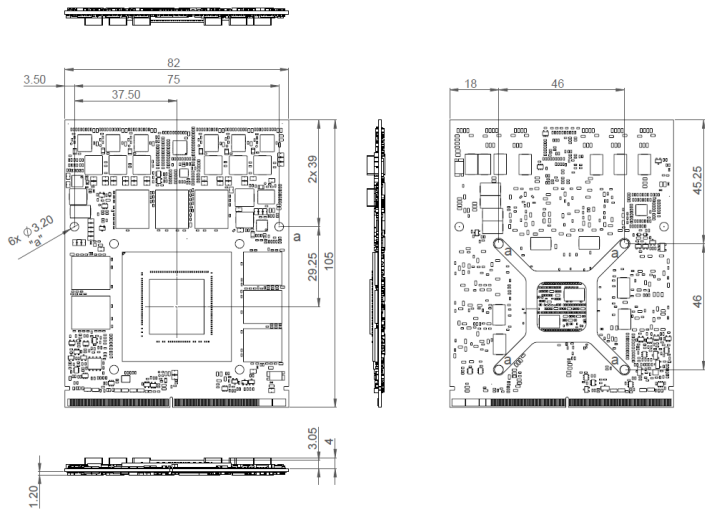
### Features

- NVIDIA RTX A4500 embedded graphics based on NVIDIA Ampere architecture
- 5888 CUDA cores, 80 RT cores and 184 Tensor cores, 16GB GDDR6 memory
- 18.55 TFLOPS peak FP32 performance
- Support CUDA Compute version 8.6, OpenGL 4.6, Vulkan 1.2, DirectX 12 Ultimate and Shader Model 7.0
- Support ECC Error Correction Code

### Specifications

Model Number	EBK-MXM-A4500-A3/A4		EBK-MXM-A4500-A2	EBK-MXM-A4500-A1
GPU Engine Specs	NVIDIA RTX A4500 Architecture: NVIDIA Ampere CUDA Cores: 5888 Tensor Cores: 184 RT Cores: 80 Floating Point Performance: 14.31 TFLOPS		NVIDIA RTX A4500 Architecture: NVIDIA Ampere CUDA Cores: 5888 Tensor Cores: 184 RT Cores: 80 Floating Point Performance: 17.66 TFLOPS	NVIDIA RTX A4500 Architecture: NVIDIA Ampere CUDA Cores: 5888 Tensor Cores: 184 RT Cores: 80 Floating Point Performance: 18.55 TFLOPS
Core Clock (MHz)	Base= 510 / Boost= 1215		Base= 930 / Boost= 1500	Base= 1020 / Boost= 1575
PCI Express interface	PCIe Gen3.0 x16		PCIe Gen4.0 x16	PCIe Gen4.0 x16
Memory Specs	Size: 16GB GDDR6 Speed: 14 Gbps Interface Width: 256-bit Bandwidth (GB/sec): 448		Size: 16GB GDDR6 Speed: 16 Gbps Interface Width: 256-bit Bandwidth (GB/sec): 512	Size: 16GB GDDR6 Speed: 16 Gbps Interface Width: 256-bit Bandwidth (GB/sec): 512
Feature Support	Support ECC DirectX: 12 Ultimate Open GL 4.6 Vulkan 1.2			
Display	Resolution: 7680x4320 Max: 4x DisplayPort			
Power Consumption	Total Graphics Power (TGP): 80 W		Total Graphics Power (TGP): 115 W	Total Graphics Power (TGP): 125 W
Form Factor	MXM Graphics Module Version 3.1, Type B			
Dimensions (WxD)	82.0 x 105.0 mm (3.22" x4.13")			
Net Weight	0.0616 kg (0.1358 lb)			
Vibration	2.4Grms, @5~500 Hz, Sine, 0.5Hr/axis			
Temperature	Standard: Operating Temp. :0 to + 55°C (32°F ~131°F )/ Extended Operating Temp. :-40 to + 70°C (-40°F ~158°F ) / Storage Temperature: -40 to + 85°C (- 40°F ~ 185°F)		Standard: Operating Temp. :0 to + 55°C (32°F ~131°F ) / Storage Temperature: -40 to + 85°C (- 40°F ~ 185°F)	
Humidity	90% @ 40°C Related Humidity, Non-condensing			
OS Support	Windows 10/11 64-bit Linux 64-bit			
Certification	CE/FCC			

System & Mounting Dimensions



Ordering Information

Model name	Description
EBK-MXM-A4500-A1	MXM-B, NVIDIA RTX A4500, Gen4.0 x16, 16GB GDDR6, DP, 125W, 0°C to +55°C
EBK-MXM-A4500-A2	MXM-B, NVIDIA RTX A4500, Gen4.0 x16, 16GB GDDR6, DP, 115W, 0°C to +55°C
EBK-MXM-A4500-A3	MXM-B, NVIDIA RTX A4500, Gen3.0 x16, 16GB GDDR6, DP, 80W, 0°C to +55°C
EBK-MXM-A4500-A4	MXM-B, NVIDIA RTX A4500, Gen3.0 x16, 16GB GDDR6, DP, 80W, -40°C to +70°C

Accessory (Optional)

Part No.	Description
TBD	PCIE Carrier Board, MXM3.1, Gen4.0 x16, 4x HDMI, 0°C to +55°C
TBD	MXM-B Cooler, TWO BALL, 12V 4PIN P2.5mm, L:250mm 7000RPM, 107*80.7*32.4mm, AL1100, 0°C to +55°C

