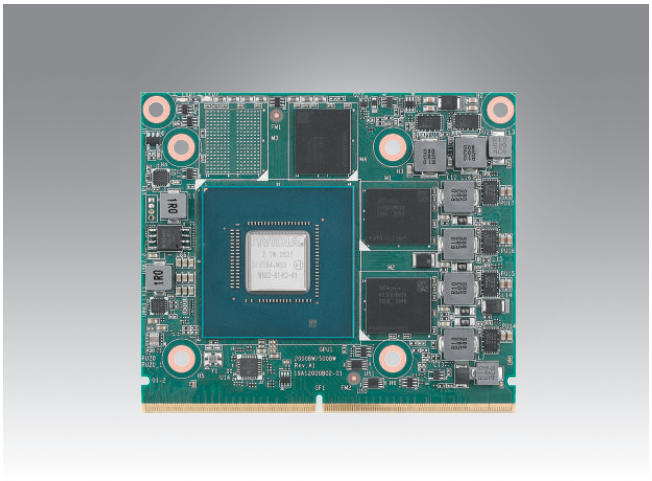
SKY-MXM-500B

MXM 3.1 Type A NVIDIA® RTX PRO™ Embedded 500B with DP 2.1a



CE FCC

Features

- NVIDIA Blackwell architecture form factor (82 x 70 mm)
- Up to 1792 CUDA cores, 56 RT cores and 14 Tensor cores, 9.2 TFLOPS
- Support 5th Gen Tensor Cores with FP4 precision to enhance AI applications
- 9th-Gen NVENC / 6th-Gen NVDEC Engines
- Discrete or MS-Hybrid mode supported
- Up to 3 x DisplayPort 2.1a outputs
- PCIe Gen5 supported
- Long life cycle, supports 5 years availability

Specifications

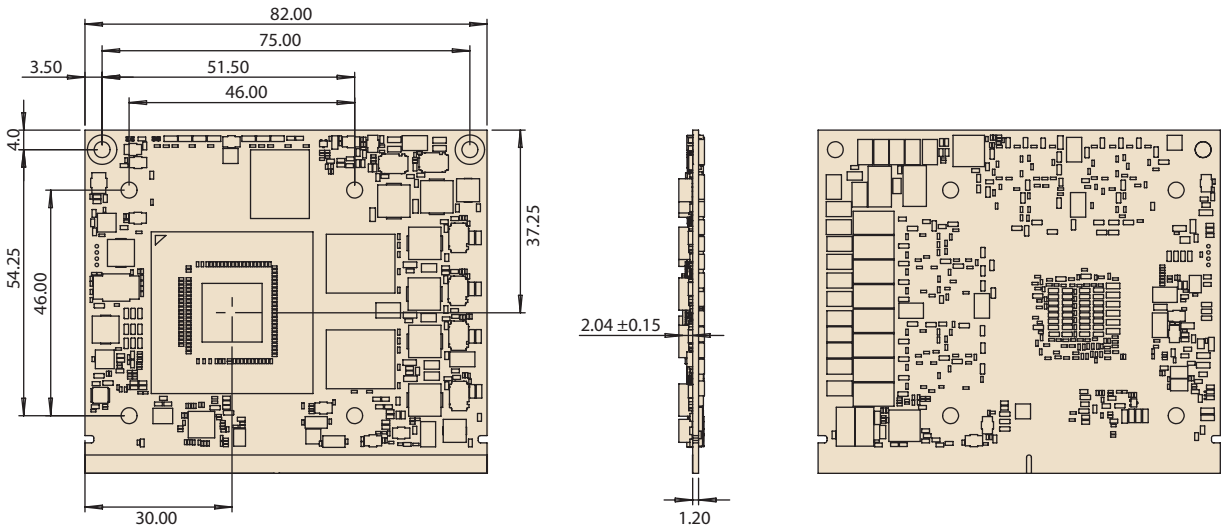
Processor System	GPU	RTX PRO 500B	
	Graphic Architecture	NVIDIA® Blackwell	
	CUDA Parallel-Processing Cores	1792 CUDA® cores	
	GPU Base/Boost Clock	2160 MHZ / 2565 MHZ	
	RT Cores	56	
	Tensor Cores	14	
	FP32 Performance	9.2 TFLOPS	
Memory	Technology	GDDR7 6GB memory	
	Interface Width	96-bit	
	Bandwidth	288 GB/s	
	Memory ECC	Not Supported	
Graphics	DP	3x DisplayPort 2.1a (UHBR20/13.5/10) 4K at 240Hz or 8K at 60Hz support DP++ to HDMI 2.1b	
	Display Mode	Discrete or MS-Hybrid mode supported	
Bus	PCI express 4.0	MXM 3.1, PCI Express Gen5 x8 supports	
Power Consumption	Max Power Consumption	60W	
Environment		Operating	Non-Operating
	Temperature	0 ~ 55 °C (dependent on CPU and cooler solution)	-40 ~ 85 °C
	Humidity	40 °C @ 85% relative humidity (non-condensing)	60 °C @ 95% relative humidity (non-condensing)
Physical	Dimensions	82 (W) x 70 (D) mm x 4.8 (H) mm	
	Form Factor	Standard MXM 3.1 Type A	
OS	Microsoft	Windows 10/11, 64-bit	
	Linux	Linux Drivers, 64-bit	
API	Compute API	CUDA® Toolkit 12.8 and above, CUDA compute capability 12.0, OpenCL™ 3.0	
	Graphic API	DirectX® 12, Vulkan 1.4, OpenGL® 4.6	

All product specifications are subject to change without notice.

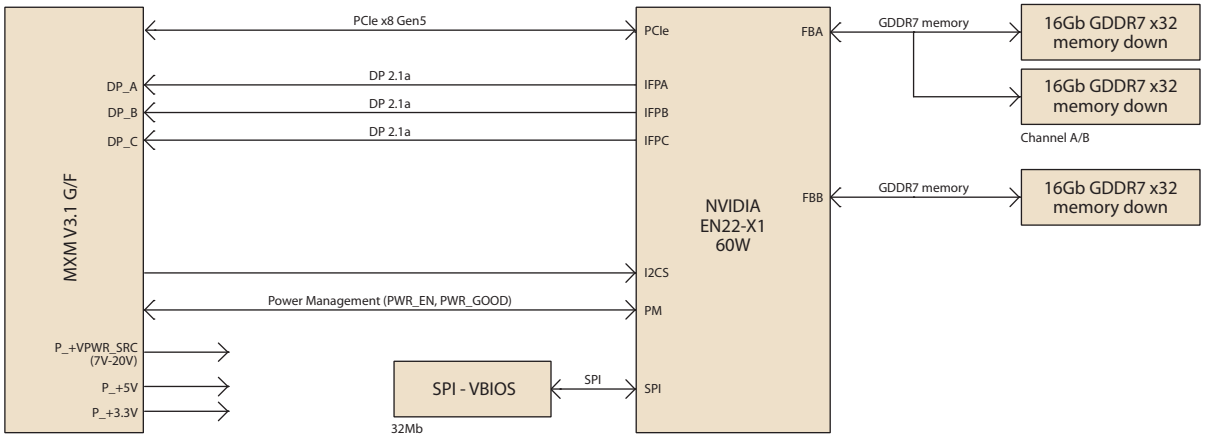
Last updated: 14-Jul-2026

Dimensions

Unit: mm



Block Diagram



Ordering Information

Part Number	GPU Memory	GPU Base/Boost Clock	RT Cores	Tensor Cores	FP32 Performance	Max Power Consumption	Disply Connectors	Supported Feature
SKY-MXM-500B-6HDA	6GB GDDR7	2160 MHZ / 2565 MHZ	56	14	9.2 TFLOPS	60W	DP 2.1a*3	Discrete Mode
SKY-MXM-500B-6HHA	6GB GDDR7	2160 MHZ / 2565 MHZ	56	14	9.2 TFLOPS	60W	Headless Design	MS-Hybrid Mode