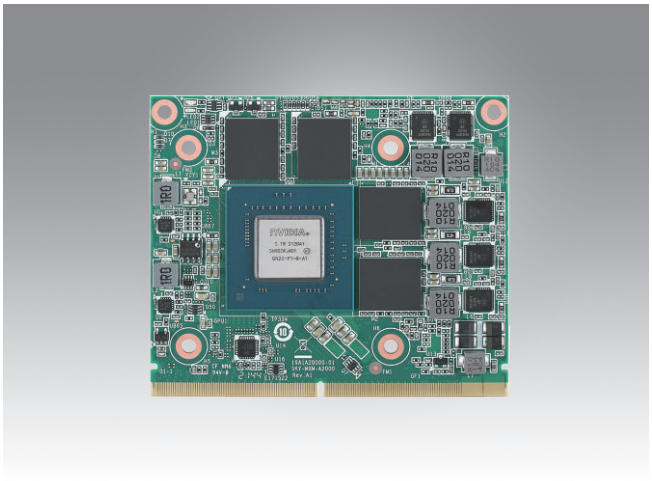
SKY-MXM-A1000

MXM 3.1 Type A NVIDIA® Quadro® Embedded A1000 with DP 1.4a



Features

- NVIDIA Ampere architecture Quadro® A1000 with MXM 3.1 TYPE A form factor (82 x 70 mm)
- Up to 2048 CUDA cores , 16 RT cores and 64 Tensor cores, 6.66 TFLOPS
- GDDR6 4GB memory, 128-bit, bandwidth 224 GB/s
- Discrete or MS-Hybrid mode supported
- Encode Sessions Unlimited
- GPUDirect® Remote Direct Memory Access (RDMA) and Video supported
- Up to 4 x DisplayPort 1.4a outputs
- Long life cycle, supports 5 years availability

CE FCC

Specifications

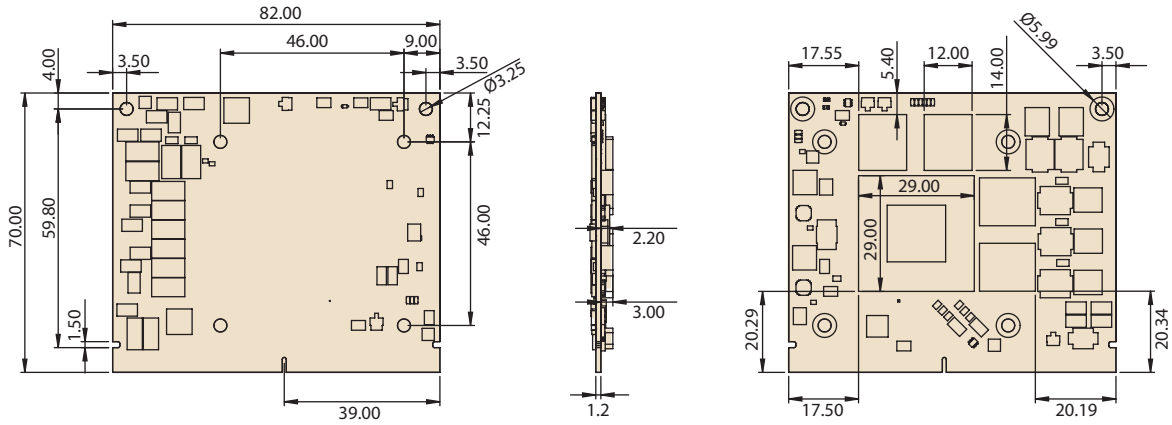
Processor System	GPU	Quadro® A1000	
	Graphic Architecture	NVIDIA® Ampere GA107-950	
	CUDA Parallel-Processing Cores	2048 CUDA® cores	
	GPU Base/Boost Clock	1192 MHZ / 1624 MHZ	
	RT Cores	16	
	Tensor Cores	64	
	FP32 Performance	6.66 TFLOPS	
Memory	Technology	GDDR6 4GB memory	
	Interface Width	128-bit	
	Bandwidth	224 GB/s	
	Memory ECC	NA	
Graphics	DP	4 x DisplayPort 1.4a, 4K at 120Hz or 8K at 60Hz(Requires DSC) Support HDMI 2.0 via DP dual-mode, 4K at 60Hz	
	Display Mode	Discrete or MS-Hybrid mode supported	
Bus	PCI express 3.0	MXM 3.1, PCI Express Gen4 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)
Features	Encode Supported Sessions	Unlimited	
	RDMA	Supported	
Physical	Dimensions	82 (W) x 70 (D) mm	
	Form Factor	MXM 3.1 Type A	
OS	Microsoft	Windows 10/11, 64-bit	
	Linux	Linux Drivers, 64-bit	

All product specifications are subject to change without notice.

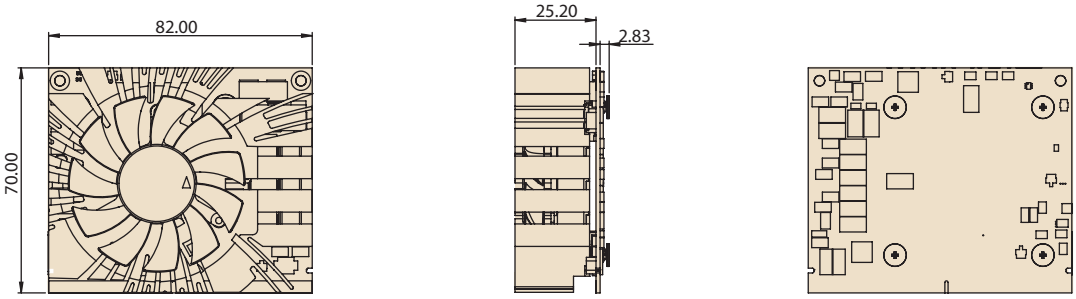
Dimensions

Unit: mm

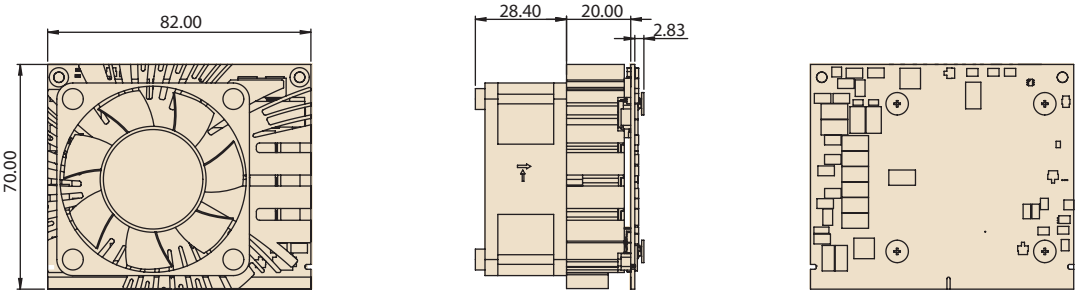
SKY-MXM-A1000



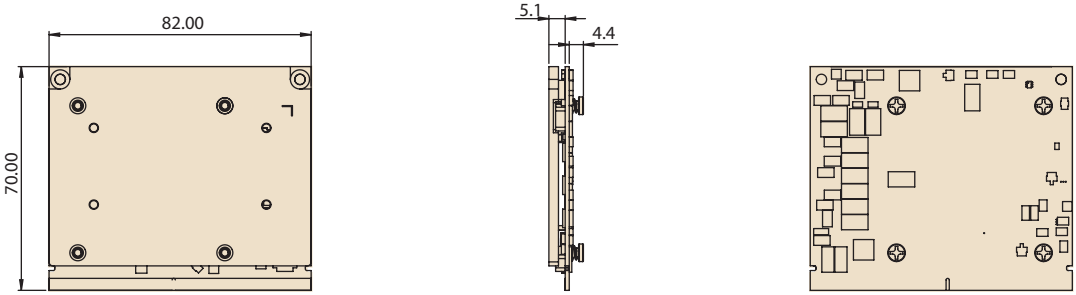
SKY-MXM-A1000 with Standard Fan Cooler (Option)



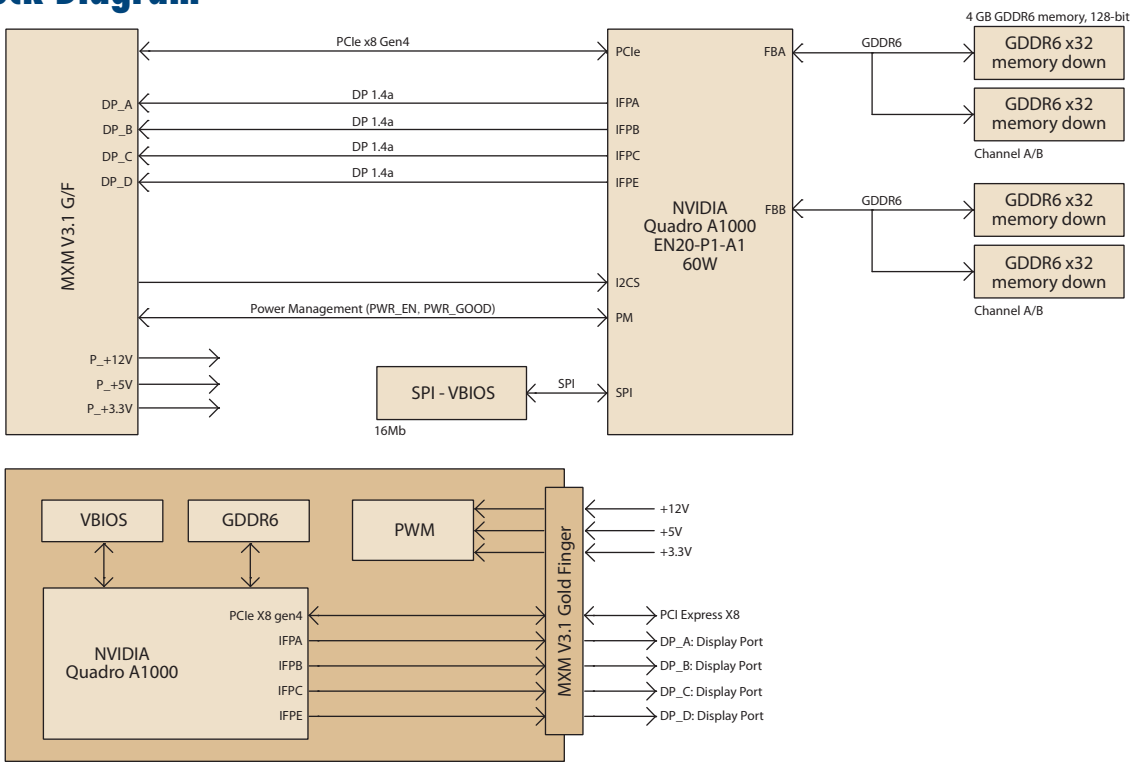
SKY-MXM-A1000 with High CFM Fan Cooler (Option)



SKY-MXM-A1000 with Heat Spreader (Option)



Block Diagram



Ordering Information

Part Number	GPU Memory	GPU Base/Boost Clock	RT Cores	Tensor Cores	FP32 Performance	Max Power Consumption	Display Connectors	Supported Features
SKY-MXM-A1000-4HDA	4GB GDDR6	1192 MHZ / 1624 MHZ	16	64	6.66 TFLOPS	60W	DP 1.4 * 4	Discrete Mode
SKY-MXM-A1000-4HHA	4GB GDDR6	1192 MHZ / 1624 MHZ	16	64	6.66 TFLOPS	60W	Headless Design	MS-Hybrid Mode
SKY-MXM-A1000-4SLA	4GB GDDR6	630 MHZ / 1140 MHZ	16	64	4.67 TFLOPS	35W	DP 1.4 *4	Discrete Mode

Optional Accessories

Thermal Solution

Part Number	Description	Material	Dimension (mm)	Operating Temp Support
98R1X200010	Standard Fan Cooler	Aluminum	69.82(L) x 82(W) x 25.2(H)	0 ~ 40°C
98R1X200011	High CFM Fan Cooler	Aluminum	69.82(L) x 82(W) x 45.4(H)	0 ~ 55°C
98R1X200000	Heat Spreader	Aluminum	62.35(L) x 82(W) x 4.9(H)	Depending on system thermal solution

MXM-Carrier

Part Number	Description	PCIe Interface	Dimension (mm)	Display Output
SKY-MXM-CAR	MXM-Carrier PCIe to MXM	Gen3 x 16	235.95(L) x162.2(H)	4 x DisplayPort 1.4a
SKY-MXM-CARG4	MXM-Carrier PCIe to MXM PCIe Gen4	Gen4 x 16	235.95(L) x162.2(H)	4 x DisplayPort 1.4a