

AI Accelerator & GPU

MXM Module M3A1000-PP



Features

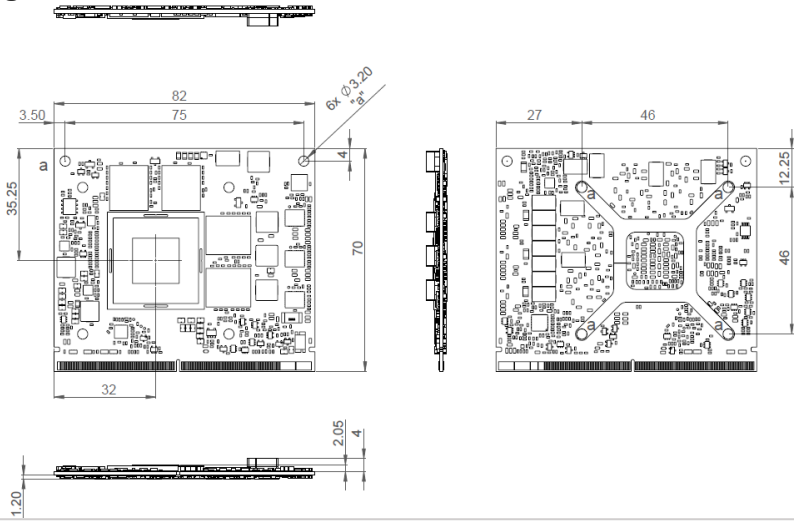
- NVIDIA RTX A1000 Embedded GPU based on Ampere architecture
- 2048 CUDA cores, 16 RT cores and 64 Tensor cores, 4GB GDDR6 memory
- PCIe Gen 4 x8 interface
- 6.66 TFLOPS peak FP32 performance

Specifications

Model Number	M3A1000-PP	
GPU Engine Specs	NVIDIA RTX A1000 Architecture: NVIDIA Ampere CUDA Cores: 2048 Tensor Cores: 64 RT Cores: 16 Floating Point Performance: 4.67 TFLOPS	NVIDIA RTX A1000 Architecture: NVIDIA Ampere CUDA Cores: 2048 Tensor Cores: 64 RT Cores: 16 Floating Point Performance: 6.66 TFLOPS
Core Clock (MHz)	Base= 630 / Boost= 1140	Base= 1192 / Boost= 1627
Memory Specs	Size: 4GB GDDR6 Speed: 11 Gbps Interface Width: 128-bit Bandwidth (GB/sec): 176	Size: 4GB GDDR6 Speed: 14 Gbps Interface Width: 128-bit Bandwidth (GB/sec): 224
Feature Support	PCIe Gen4.0 x8 DirectX: 12 Ultimate Open GL 4.6 Vulkan 1.2	
Display	Resolution: 7680x4320 Max: 4x DisplayPort	
Power Consumption	Total Graphics Power (TGP): 35 W	Total Graphics Power (TGP): 60 W
Form Factor	MXM Graphics Module Version 3.1, Type A	
Dimensions (WxD)	82.0 x 70.0 mm (3.22" x2.75")	
Net Weight	0.037 kg (0.082 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 + 85°C (-40°F ~185°F) / Storage Temperature: -40 to + 85°C (- 40°F ~ 185°F)	
Humidity	95% @ 40°C Related Humidity, Non-condensing	
OS Support	Windows 10/11 64-bit	
Certification	CE/FCC	



System & Mounting Dimensions



Ordering Information

Model name	Description
M3A1000-PPA-A1	MXM-A, NVIDIA RTX A1000, Gen4.0 x8, 4GB GDDR6, DP, 60W, 0°C to +55°C
M3A1000-PPW-A1	MXM-A, NVIDIA RTX A1000, Gen4.0 x8, 4GB GDDR6, DP, 60W, -40°C to +85°C
M3A1000-PPA-A2	MXM-A, NVIDIA RTX A1000, Gen4.0 x8, 4GB GDDR6, DP, 35W, 0°C to +55°C
M3A1000-PPW-A2	MXM-A, NVIDIA RTX A1000, Gen4.0 x8, 4GB GDDR6, DP, 35W, -40°C to +85°C

Accessory (Optional)

Part No.	Description
92-6MXM4H-1000	PCIE Carrier Board, MXM3.1, Gen4.0 x16, 4x HDMI, 0°C to +55°C
3906000000S010	MXM-A Cooler, TWO BALL, 12V 4PIN, L:200mm 6000RPM, 72*62*27.65mm, AL6063, 0°C to +55°C