

AI Accelerator & GPU

MXM Module M3A1000-PP



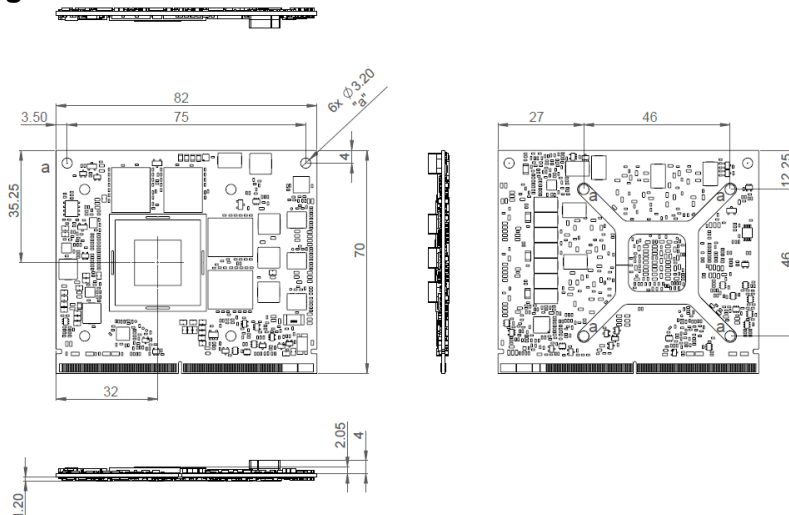
Features

- 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 |

