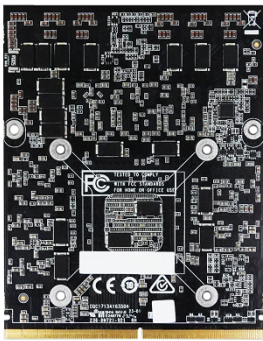
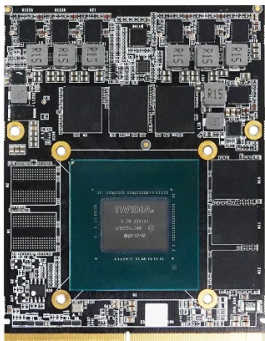


AI Accelerator& GPU

Preliminary

MXM Module MX3500A-SP



Features

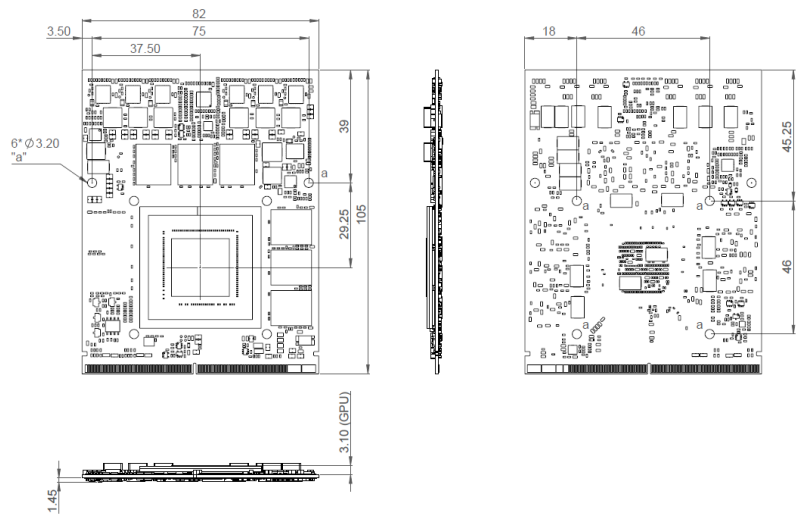
- NVIDIA RTX 3500 embedded graphics based on NVIDIA Ada Lovelace architecture
- 5120 CUDA cores, 40 RT cores and 160 Tensor cores, 12GB GDDR6 memory
- PCIe Gen 4 x16 interface
- 23.04 TFLOPS peak FP32 performance
- Support Error Correction Code(ECC)

Specifications

Model Number	MX3500A-SPA-A1
GPU Engine Specs	NVIDIA RTX 3500 Architecture: NVIDIA Ada Lovelace CUDA Cores: 5120 Tensor Cores: 160 RT Cores: 40 Floating Point Performance: 23.04 TFLOPS Core Clock (MHz): Base= 1725 / Boost= 2250
Memory Specs	Size: 12GB GDDR6 Speed: 16 Gbps Interface Width: 192-bit Bandwidth (GB/sec): 432
Feature Support	PCI Express 4.0 x16 DirectX: 12 Ultimate Open GL 4.6 Vulkan 1.2
Display	Resolution: 7680x4320 ¹ Max: 4x DisplayPort 1.4a
Power Consumption	Total Graphics Power (TGP): 115 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	0.0592 kg (0.1305 lb)
Vibration	2.4Grms, @5~500 Hz, Sine, 0.5Hr/axis
Temperature	Standard: Operating Temp. :0 to + 55°C (32°F ~131°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/UKCA

1. Up to 4k 12-bit HDR at 240Hz with DP1.4a+DSC. Up to 8k 12-bit HDR at 60Hz with DP 1.4a+DSC or HDMI2.0+DSC. With dual DP1.4a+DSC, up to 8K HDR at 120Hz. HDCP 1.2/1.4. (eDP, LVDS, VGA, USB-C display output are not supported)

System & Mounting Dimensions



Ordering Information

Model name	Description
MX3500A-SPA-A1	MXM-B, NVIDIA RTX 3500 ADA, Gen4.0 x16, 12GB GDDR6, DP, 115W, 0°C to +55°C

Accessory (Optional)

Part No.	Description
TBD	PCIe Carrier Board, MXM3.1, Gen4.0 x16, 4x HDMI, 0°C to +55°C (MXM-A04) TBD
3904000000T000	MXM-B Cooler, TWO BALL, 12V 4PIN P2.5mm, L:250mm 7000RPM, 107*80.7*32.4mm, AL1100, 0°C to +55°C