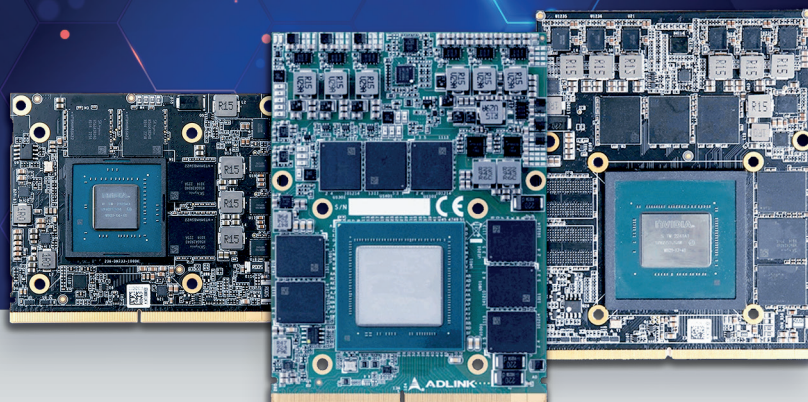




Overview

NVIDIA ADA LOVELACE ARCHITECTURE:
PERFORMANCE FOR ENDLESS POSSIBILITIES
IN AN EMBEDDED MXM FORM FACTOR

Embedded MXM modules based on the NVIDIA Ada architecture bring next-generation GPU performance to compact embedded systems across professional, scientific, and creative domains. With major advancements in ray tracing and AI-driven neural graphics, Ada MXM GPUs deliver real-time rendering, intelligent computing, and high-end visualization.



THE PNY ADVANTAGE

PNY offers a diverse range of NVIDIA® embedded GPU solutions that excel in both performance and power efficiency, while adhering to the highest quality and reliability standards. The latest lineup features products based on the NVIDIA Ampere, Turing, and Pascal architectures.

Regardless of the industry, application, or deployment environment, PNY ensures comprehensive support for their NVIDIA professional GPU MXM's. This support includes access to design kits, development software, and various tools to assist you in selecting the most suitable NVIDIA professional GPU solution that aligns perfectly with your specific requirements.

WARRANTY & SUPPORT

- ✓ 2-year warranty
- ✓ Pre- and post-sales technical support
- ✓ Dedicated Field Application Engineers Professional Solutions
- ✓ Direct technical support professional solutions hot line

Key Features



**NVIDIA RTX 5000 ADA
MXM 3.1 Type B**



**NVIDIA RTX 3500 ADA
MXM 3.1 Type B**



**NVIDIA RTX 2000 ADA
MXM 3.1 Type A / Type B**

PNY Part Number	NRTX5000ADA-16G-125W	NRTX3500ADA-12G-115W	NRTX2000ADA-8G-60W / NTRX2000ADA-8G-115W
GPU Memory	16GB GDDR6	12GB GDDR6	8GB GDDR6
Max Power Consumption	125W	115W	Type A 60W / Type B 115W
Connection Type	Type-B	Type-B	Type-A / Type-B
Interface	PCIe 4.0 x8 / x16	PCIe 4.0 x8 / x16	PCIe 4.0 x4 / x8
Cuda Cores	9 728	5 120	3 072
GPU Memory Bandwidth	576 GBps	432 GBps	256 GBps
Peak Graphics Perf.	42.7 TFLOPS	23.0 TFLOPS	Type-A 13 TFLOPS / Type-B 14.5 TFLOPS

Specifications

Model name	NVIDIA RTX 5000 ADA MXM 3.1 Type B	NVIDIA RTX 3500 ADA MXM 3.1 Type B	NVIDIA RTX 2000 ADA MXM 3.1 Type B
PERFORMANCE & MEMORY			
GPU model	NVIDIA RTX 5000 ADA	NVIDIA RTX 3500 ADA	NVIDIA RTX 2000 ADA
GPU Architecture	Ada Lovelace, 9 728 CUDA, 76 Gen3 RT Core & 304 Gen4 Tensor	Ada Lovelace, 5 120 CUDA, 40 Gen3 RT Core & 160 Gen4 Tensor	Ada Lovelace, 3 072 CUDA, 24 Gen3 RT Core & 96 Gen4 Tensor
GPU/Boost Clock	1 425 MHz, 2 115 MHz @115W TGP	1 725 MHz, 2 250 MHz @115W TGP	2 295 MHz, 2 395 MHz @115W TGP
Graphics Memory	256-bit, 16GB GDDR6	192-bit, 12GB GDDR6	128-bit, 8GB GDDR6
Memory Bandwidth	576 GB/s	432 GB/s	256 GB/s
Graphics Performance	41.3 TFLOPS FP32	23.0 TFLOPS FP32	14.5 TFLOPS FP32
ECC Function	Support ECC, default disabled, user configurable from NVIDIA control panel or NVIDIA-smi command		
DISPLAY & SOFTWARE			
Display output	4 x DisplayPort 1.4a. Max simultaneous 4 output. Max resolution of each port 8K UHD@60Hz (7690x4320)	4 x DisplayPort 1.4a. Max simultaneous 4 output. Max resolution of each port 8K UHD@60Hz (7690x4320)	3 x DisplayPort 1.4a. Max simultaneous 3 output. Max resolution of each port 8K UHD@60Hz (7690x4320)
Display Features	Support HDR, HDCP 1.2/1.4 (eDP, LVDS, VGA, USB-C display output are Not supported)		
Supported API	DirectX 12 Ultimate, Shader Model 7.0, OpenGL 4.6, Vulkan		
Supported OS	Windows 10 IoT LTSC 64-bit, Windows 11, Linux 64-bit		
BIOS	16Mbit Serial ROM		
ENVIRONMENT & RELIABILITY			
Form Factor	MXM 3.1 Type B. 82mm(W) x 105mm (L)	MXM 3.1 Type B. 82mm(W) x 105mm (L)	MXM 3.1 Type B. 82mm(W) x 105mm(L), 10 layers PCB
Weight	60.2g	59.2g	49.3g
Power consumption	115W Total Graphics Power (TGP)		
Input voltage	DC 12~19V, 3.3V & 5V; +/-5%		
Cooling System	Not included. Custom design available on request		
Ambient - Operating	Temperature: 0°C ~ 55°C with air flow. Humidity 10% ~ 90%, non-condensing		
Ambient - Storage	Temperature: -25°C ~ 80°C. Humidity 10% ~ 90%, non-condensing		
Conformal Coating	None. Available on request		
Packing	Non-brand bulk pack, Two screws included. 20pcs/carton		
Compliance	RoHS 2		
MTBF	~ 95 196 hours at 25°C	~ 104 645 hours at 25°C	130 029 hours at 25°C

Want to learn more about **PNY Embedded GPUs?**

Visit <https://www.pny.com/en-eu/professional/hardware/NVIDIA-embedded-gpus>

FOR MORE INFORMATION:

Contact your **PNY representative** or email PNYPRO@PNY.EU

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