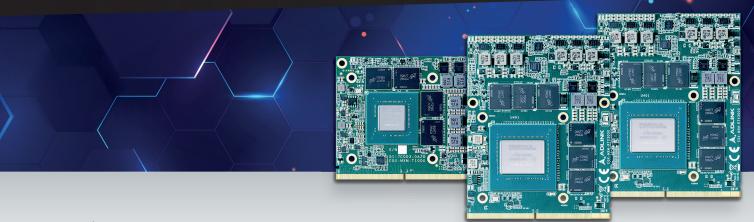
Embedded MXM Modules







Overview

NVIDIA TURING ARCHITECTURE:
PERFORMANCE OPTIMIZATIONS IN AN EMBEDDED MXM
FORM FACTOR

Embedded MXM modules based on the NVIDIA Turing architecture deliver powerful graphics acceleration for a wide range of professional applications including scientific and medical visualization, digital content creation (DCC), artificial intelligence (AI), and machine learning (ML). These modules are designed to meet the demands of embedded systems requiring high computational throughput, real-time ray tracing, and advanced rendering features.

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 professionnal solutions hot line

Key Features



Quadro RTX 5000 MXM Type B

	WIXIVI Type B	
PNY Part Number	QRTX5000-KIT	
GPU Memory	16GB GDDR6	
Max Power Consumption	80W	
Connection Type	Type-B	
Interface	PCle 3.0 x8 / x16	
Cuda Cores	3 072	
GPU Memory Bandwidth	448 GBps	
Peak Graphics Performance	9.5 TFLOPS	



Quadro RTX 3000 MXM Type B



Quadro T1000 MXM Type A

Type A	
QT1000-KIT	
4GB GDDR6	
50W	
Type-A	
PCle 3.0 x8 / x16	
896	
192 GBps	
3.0 TFLOPS	

Embedded MXM Modules





Specifications

Model name	Quadro RTX 5000 MXM Type B	Quadro RTX 3000 MXM Type B	Quadro T1000 MXM Type A	
PERFORMANCE & MEMORY				
GPU Model	NVIDIA Quadro RTX 5000	NVIDIA Quadro RTX 3000	NVIDIA Quadro T1000	
GPU Architecture	Turing with 3 072 CUDA cores and 384 Tensor cores	Turing with 1 920 CUDA cores 30 RT cores and 240 Tensor cores	Turing with 896 CUDA cores	
GPU/Boost Clock	1 035 MHz, 1 365 MHz	945 MHz, 1 380 MHz	Not specified in document	
Graphics Memory	16GB 256-bit GDDR6. 448GB/s memory bandwidth	6GB 192-bit GDDR6. 336GB/s memory bandwidth.	4GB 128-bit GDDR6. 128GB/s memory bandwidth	
Graphics Performance	Max. 9.5 TFLOPS peak FP32	5.3 TFLOPS peak FP32	2.6 TFLOPS peak FP32	
DISPLAY & SOFTWARE				
Display Output	5 x DisplayPort 1.4. Max simultaneous 4 output. Max resolution of each port 8K UHD@60Hz	5 x DisplayPort 1.4. Max simultaneous 4 output. Max resolution of each port 8K UHD@60Hz	4 x DisplayPort 1.4a. Max resolution of each port 8K UHD@60Hz	
Display Features	Support HDR, HDCP 1.2/1.4 (eDP, LVDS, VGA, USB-C display output are Not supported)			
Supported API	DirectX 12.1, Shader Model 5.1, OpenGL 4.6, OpenCL 1.2, Vulkan 1.1			
Supported OS	Windows 10 64-bit, Linux 64-bit			
ENVIRONMENT & REL	IABILITY			
Form Factor	MXM 3.1 Type B. 82mm(W) x 110mm(L)	MXM 3.1 Type B. 82mm(W) x 105mm(L)	MXM 3.1 Type A. 82mm(W) x 70mm(L)	
Weight	60.7 grams	55.7g	38.6g	
Power Consumption	110W Total Graphics Power (TGP)	80W Total Graphics Power (TGP)	50W Total Graphics Power (TGP)	
Cooling System	Not included. Custom design available on request	Not included	Not included	
Ambient - Operating*	Temperature -10°C \sim +55°C with air flow. Humidity 10% \sim 90%, non-condensing			
Ambient - Storage	Temperature -25°C ~ 80°C. Humidity 10 ~ 90%, non-condensing			
Conformal Coating	None. Available on request	None. Available on request	Not specified	
Packing	Non-brand bulk pack			
Compliance	RoHS 2			
MTBF	Approximately 68 260 hours at 25°C	Approximately 74 423 hours at 25°C	Approximately 89 594 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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*Ambient operating temperature range stated above is based on PC Partner's reference cooler. In customer's system the operating temperature range depends on thermal mechanical design

