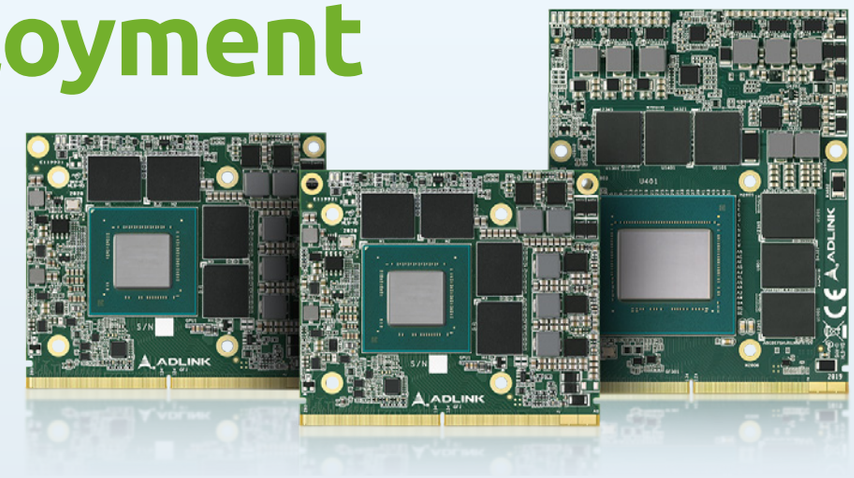
7 Ways GPUs Speed Up Edge Deployment

The need for computing is growing exponentially at the edge. The market size is expected to reach USD 155.9 billion by 2030, expanding at a CAGR of 38.9%*. Leveraging the power of GPUs enables industries to better position for edge computing. Here are seven ways how ADLINK facilitates the edge transition with embedded MXM GPU modules.

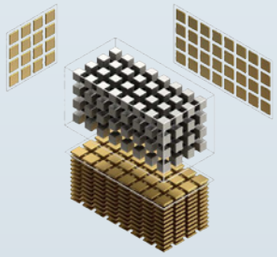




1 Accelerate Compute-Intensive Workloads



With NVIDIA Ampere CUDA Cores, ADLINK's embedded MXM GPU modules deliver up to **17.66 trillion** single-precision floating point operations per second (FP32 performance), offering accelerated computing while freeing CPU resources for other tasks.

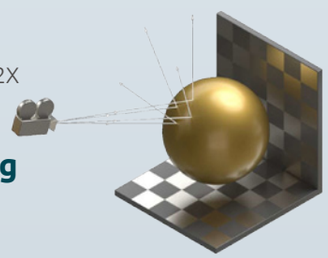


2 Accelerate AI Inference

The third generation Tensor Cores of NVIDIA Ampere architecture enable embedded MXM GPU modules to **double the throughput** for AI inference with hardware support for structural sparsity, compared with the previous generation GPUs.

3 Accelerate Ray Tracing

The second generation RT Cores offer up to 2X throughput of previous generation GPUs, enabling embedded MXM GPU modules to speed up **photorealistic rendering** for seismic surveys, medical imaging, and engineering modeling and simulations.



Learn more about ADLINK's embedded MXM GPU modules

* Source: Edge Computing Market Size Worth $155.90 Billion By 2030, Grand View Research, Inc., https://www.grandviewresearch.com/press-release/global-edge-computing-market

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NVIDIA RTX

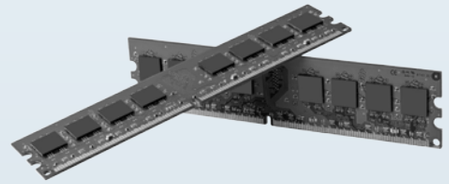
NVIDIA ELITE PARTNER

4 Accelerate Video Transcoding



Offload end-to-end encoding and decoding to **hardware-based encoder and decoder**, separate from the CUDA cores, for faster than real-time video processing.

5 Improve Data Throughput



The embedded MXM GPU modules support up to **16 GB GDDR6** memory, offer 2X bandwidth of PCIe 3.0 with **PCIe 4.0**, and reduce I/O bottlenecks by optimizing the data path with remote direct memory access **(RDMA)**.

These features benefit data-intensive workloads involving large AI modes, sensor fusion, high-resolution frames, detailed texture graphics, and more!



6 Enhance Data Integrity and Resilience

Error correction code (ECC) RAM is supported by embedded MXM GPU modules to proTect high-value data against data corruption by automatically detecting and correcting memory errors.

7 Optimize to Survive at the Edge

Operating environments at the edge are harsh and test your system reliability. Embedded MXM GPU modules are optimized in terms of size, weight, and power (SWaP) to withstand the harshest environmental challenges.

80% smaller than PCIe graphics cards

20+ watts of total graphics power

-20°C to 70°C for use in harsh environments

5 years product availability



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