WHY AI NEEDS GPU AT THE EDGE

How Edge AI is Transforming Industries

Edge AI enhances efficiency and improves performance by accessing vital data in real-time. These advantages provide the results your business needs. Edge AI is already improving the fields of:

Government and the General Public:
Edge AI is helping governments and communities by offering access control, personal protection, and social distancing detection.

Logistics and Warehouses:
Through the use of autonomous mobile robots for material handling and delivery, Edge AI is helping logistics and storage.

Retail:
Customer satisfaction is increased through the convenience of AI-powered self-checkouts.

Manufacturing:
Products are produced more effectively as a result of Edge AI providing quality control and defect classification.

Healthcare:
Edge AI provides medical image analysis, which enhances precision diagnosis and surgery.

How Edge AI Works

Edge AI acquires and processes predominantly video and image data and then provides you with valuable insights that can make a difference for your business.

The **video and image** recognition segment accounts for the largest share in the edge AI market.

65% of enterprise-captured videos and images will be analyzed by machines by 2023.

Edge AI Delivers Superior Results

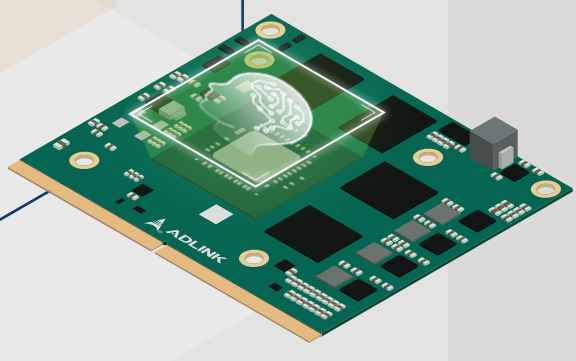
Edge AI provides exceptional responsiveness and accuracy through six critical factors:

1. Programmability
2. Low Latency
3. Accuracy
4. Size of Network
5. Throughput
6. Efficiency

Boosting AI Performance at Edge

Based on NVIDIA Turing™ architecture, **ADLINK's embedded MXM GPU modules** deliver outstanding performance for any business. This is achieved through:

- Most **deep learning frameworks** support NVIDIA GPUs
- Features Tensor Cores with **FP16, INT8,** and **INT4** precisions to match speed and accuracy requirements
- Increases data bandwidth by 80% with **NVIDIA® GPUDirect® RDMA**
- **SWaP-optimized** form factor that is only one-fifth the size of standard PEG cards



SOURCE: GARTNER, NVIDIA, MARKETSANDMARKETS

NVIDIA® QUADRO® CERTIFIED
▪ EMBEDDED