

# Artificial Intelligence (AI) and Machine Learning (ML) platforms run on Micron Technology

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# Evolving IoT/AI driving increased Memory needs

## Memory Heavy Applications

Smart Factories and Collaborative Robots



Medical Analysis & Genome Targeting



Telematics and Autonomous Driving



Industrial IoT and Edge Computing

## Trends & Workloads



Aggregation



Compute



Machine Learning



Storage



Services



Neural Networks

  
Intelligence Accelerated™

- Innovative
- Technical Expertise
- Wide Product Portfolio
- Customer Collaboration
- Manufacturing Leadership
- Longevity → Leading Edge

# Micron Drives Automotive Leadership and Innovation



**#1**  
**In Automotive**

- Automotive Mindset
  - 28+ years commitment, investment & dedicated support
  - ISO 9001/IATF 16949 Quality Management Systems
  - AEC-Q100 qualification methodology
  - Zero defect target approach
  - ISO 26262 design and validation for ASIL functional safety
- Broadest Portfolio and Leading Solutions
  - One-Source for Automotive Grade solutions
    - 40 to 125C: DRAM and NOR Flash
    - 40 to 105C: NAND, SSD, and e.MMC, Multi-Chip Packages
  - Six generations of advanced storage solutions
  - First with high temp, auto grade DRAM
  - Micron® Authentica™ technology for cyber security
  - Consortium based Octal NOR Flash
- Technical Collaboration
  - Customer labs in Munich, Tokyo, Detroit, San Jose & Shanghai
  - Strong SoC/FPGA collaboration to accelerate time to market
  - Well connected to what it will take to get to L5 Autonomous driving
  - System & product experts to enable advanced solutions in security, functional safety and artificial intelligence



# Micron Intelligence Accelerated at the IoT Edge

- **Complete IoT Edge Essentials**
  - High performance, low power DRAM for compute, AI/ML workloads
  - Industry leading NOR & NAND solutions for code and data aggregation
  - Industrial grade SSD and uSD solutions for on-premise storage
- **Leading Technologies**
  - Delivering World's First Mass-Produced, Low-Power DDR5 DRAM
  - Industry's First 1TB Automotive & Industrial Grade PCIe NVMe Flash Storage
  - Xccela™ Flash combines Octal SPI SDR/DDR interface with Flash to provide best-in-class instant-on performance
  - Award winning 1TB microSD card using 3D QLC NAND technology
- **Democratizing The IoT Edge**
  - Authentica™ technology shifts security paradigm to enable new business models
  - Strong ecosystem of strategic partners and reference solutions

# Ecosystem Alignment and Partnership

Micron's innovation in memory technologies and product solutions, matched with a strong partnership with common CSV's makes Micron the easy choice.



- Arrow AI\_ML
  - NXP i.MX8 QuadX
  - Micron 2GB LPDDR4
  - Micron 512Mb Xccela™ Flash (x8 SPI)



- NVIDIA Jetson AGX Xavier
  - GPU: Volta w/ Tensor cores
  - CPU: 8-Core ARM v8.2 w/8MB L2, 4Mb L3
  - Micron LPDDR4: 16GB
  - Micron qualified 2<sup>nd</sup> source MMC 5.1: 32GB

- Arrow THOR96
  - NXP i.MX8M SOC
  - Micron 2GB LPDDR4



- NVIDIA Jetson TX2
  - GPU: CUDA Cores
  - CPU: Quad ARM A57 w/2MB L2
  - Micron LPDDR4: 8GB

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