

ADVANCE CITIZEN SERVICES WITH AI AND HPC

AMD Instinct™ GPUs Deliver Performance, Efficiency and Choice for the Public Sector

AT A GLANCE

Federal government agencies and institutions, along with state and local governments, use artificial intelligence (AI), generative AI (GenAI), and high-performance computing (HPC) to advance citizen services. Data center GPUs are at the heart of AI and HPC, improving speed, lowering cost and enabling innovation.

Opportunity

ORGANIZATIONS ARE DATA DRIVEN

The latest AI and HPC technologies, enabled by GPUs, are essential for advancing technology that serves the public interest.

Sovereign AI and GenAI Use Cases

Digital modernization

Modernize, automate and enhance agency capabilities.

National security

Detect threats, optimize logistics and enhance IT security.

Science and research

Speed simulation and modeling, data analysis and experiment design.

Public health

Diagnose diseases, develop treatments and personalize medicine.

Smart cities

Optimize traffic, transportation, resource management and other city services.

HPC Use Cases

Weather forecasting

Predict weather patterns and natural disasters to save lives and property.

Climate research

Model and analyze complex climate systems to anticipate responses.

Public health

Accelerate disease modeling, drug discovery and genomic analysis.

National security

Power cryptography, cyber defense and intelligence analysis.

Infrastructure planning

Optimize transportation systems, water management and energy grids.

Challenge

CHALLENGES CAN STAND IN THE WAY OF PROGRESS

Advanced technologies like AI and HPC are essential for driving innovation and efficiency for federal, state and local agencies. However, challenges can stand in the way of success.

Performance

There's no substitute for getting answers and results fast to improve citizens' lives.

Efficiency

Entry-level costs of hardware for both HPC & AI are rising dramatically, pushing leaders to get the most out of every investment.

Choice

Proprietary or closed software can make it impossible to see and modify code to meet your unique needs.

Solution

AMD INSTINCT™ GPUs

AMD Instinct™ GPUs supercharge demanding workloads with leadership performance and low total cost of ownership. Plus, AMD facilitates easy adoption and migration with the open source AMD ROCm™ software platform so you can deploy with confidence.

Supercharge AI and HPC

Get leadership performance for even the most demanding workloads at any scale—from single-server solutions up to the world's [exascale-class](#) supercomputers.

Low total cost of ownership

Greater GPU memory capacity and bandwidth means you can run larger and more models on fewer GPUs/servers for a [cost of ownership](#) advantage.

Deploy with confidence

Adopt AMD Instinct™ GPUs easily with the extensive AMD ROCm™ open software ecosystem supporting [1M+ AI models out of the box](#)—virtually no porting needed.

Choices

DATA CENTER APUs AND GPUS

AMD gives you the power of choice to accelerate your workloads.



AMD Instinct™ MI300 Series APUs and GPUs

Advance demanding AI and HPC workloads with exceptional compute performance, large memory capacity, high-bandwidth memory and support for specialized data formats.



AMD Instinct™ MI200 Series GPUs

Based on the 2nd Gen AMD CDNA™ architecture, AMD Instinct™ MI200 Series GPUs deliver a quantum leap in HPC and AI performance over prior generation GPUs.

ADVANCE CITIZEN SERVICES

Find out how AMD Instinct GPUs and AMD ROCm software can supercharge AI and HPC to improve citizen services.

LEARN MORE AT [AMD.COM/INSTINCT](https://amd.com/instinct) AND [AMD.COM/ROCM](https://amd.com/rocm)

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