

Get your AI initiatives underway with optimized Dell Precision workstations



Dell Precision AI-ready workstations equipped with powerful NVIDIA RTX™ professional GPUs can play a critical role in an AI-ready, desk-to-data-center technology environment including multicloud. For data scientists, developers, engineers and business stakeholders, developing and deploying AI solutions on workstations provide a fast-performing, flexible, affordable computing foundation for traditional AI and GenAI use cases.

\$2B

is the expected 2026 market volume for workstations for AI, scientific and software engineering purposes.¹

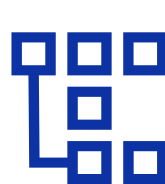
6.4M

GPUs for workstations were sold in 2022.

Workstations can be critical in all stages of AI development



Identify and manage data for the AI model from edge, cloud and data center data streams.



Prepare data by adequately storing, cleansing, quality-checking and transforming it.



Select the right model type for the AI task.



Design the model with framework flexibility.



Train the model on a robust computing foundation.



Host and monitor the model in a production environment.

\$6.9B

is the expected investment of organizations in AI computing at the edge during 2026, up from \$2.9 billion in 2023.

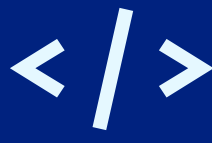
Maximize AI efficiency during development by executing workloads on workstations to complement your cloud infrastructure



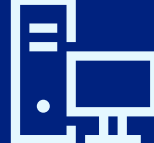
Save additional cloud expenses by running iterative testing locally on your workstations.



Explore AI use cases and GenAI prototypes **without worrying about incremental cloud service fees.**



Move AI compute resources near data streams and devices at the edge.



Take advantage of **greater workstation flexibility** for custom tooling.



Put the latest workstation innovations to work without waiting for cloud infrastructure adaptation.



Draw on **cloud-native technologies** such as microservices architectures or API-driven automation.



Reduce demand for costly network connectivity.



Strengthen security with air-gapping by eliminating dependence on the public cloud.

How workstations can efficiently power AI projects



Provide for work from anywhere without IT requesting resource access or working around data center restrictions.



Support optimization for AI workloads.



Enable frictionless innovation and experimentation without constraining production resources.



Conserve bandwidth by moving computing close to data sources.



Can be customized for deep learning or machine learning.



Run at high performance with low latency during prototyping and experimentation.

Key features of Dell Precision workstations powered by NVIDIA RTX™ professional GPUs

A great fit for data scientists, engineers and others solving business problems through AI with features like these:

- **Advanced hardware capabilities**, including multicore processors, high-capacity RAM and multiple GPU options support demanding AI tasks.
- **Dell Optimizer for Precision** automatically adjusts system settings for the fastest possible performance.
- **Scalability and customizability** provide the flexibility to optimize workstations for specific AI scenarios.
- **Certification** demonstrates seamless integration and strong performance of Precision workstations with NVIDIA RTX™ GPUs.
- **Access to software tools**, including support for NVIDIA AI Enterprise, AI frameworks and libraries optimized for NVIDIA RTX™ GPUs, helps streamline and accelerate AI projects.

Meet your AI-ready workstation

Dell Precision AI-ready workstations allow businesses to capitalize on the opportunities of GenAI to drive innovation and address urgent business concerns. With NVIDIA RTX™ GPUs and other high-performance features that enable fast-paced AI development, these workstations can accelerate the best possible business outcomes from AI development and solution deployment.

Download the IDC white paper “Why Developing and Deploying AI Technology on Workstations Makes Sense.”

[Download Now](#)

Find out more about Dell Precision workstations for AI workloads.

[Find Out More](#)

1. All findings in this infographic are from the IDC white paper “Why Developing and Deploying AI Technology on Workstations Makes Sense,” July 2023.

