



Future-Proofing the Federal Workforce

High-performance workstations for
harnessing the power of AI from the
core to the edge.

How will your agency harness the power of AI?

Government agencies are being challenged to do more with less, while still delivering on short-term and long-term goals. At the same time, data sets are expanding at an exponential rate.



Worldwide data is expected to hit

175

Zettabytes (ZB) by 2025, representing a 61% CAGR^[1]

90

ZB of this data will be from IoT devices in 2025^[1]

80%

of data will be unstructured by 2025^[1]

90%

of all data in existence today was created in the past two years^[1]

The rapid expansion and adoption of AI brings an expansion of data, more complex workflows, pressure to accelerate outcomes and new security threats.

High-performance workstations offer the efficiency, power and security that can future-proof agencies and empower an agile federal workforce.

Harnessing the Power of AI

High-performance workstations have the potential to enhance productivity, power complex, specialized workflows and speed AI development.

At the edge, users will need workstations that can run local generative AI, design concept exploration and data analysis, handle initial AI model construction and run AI Inference models.

In the core, users will need workstations capable of supporting the demands of generative AI, large-scale AI inference models, advanced data analysis and visualization, as well as the development, training, fine-tuning and deployment of large language models (LLMs).

Simulation & Modeling

Simulating real-world scenarios using digital twins is essential for enhancing an agency's ability to support defense operations, mission simulation and planning, coordinate emergency response, plan infrastructure and train personnel effectively.

Real-Time Video & Sensor Data Analysis

Used across public safety, transportation, climate monitoring and surveillance, AI dramatically improves the ability to detect, interpret and respond to events in real time.

Scientific Research

AI is accelerating time-to-discovery in groundbreaking ways. From advancements in gene therapy and material science to innovations in energy technology, AI is proving to be a powerful catalyst for scientific innovation.

Countering AI Driven Cyber-Attacks

With the expanding adoption of AI by threat actors, attacks on every IT and OT asset of the government are becoming more pervasive and sophisticated. To successfully counter these threats, organizations are going to have to leverage AI to be able to monitor, detect and react with agility to limit potential damage.

Workstations for today and tomorrow's mission requirements from the core to the edge.

Get the power and agility your workforce will need to meet the challenges of today and prepare the missions of tomorrow.



HP Z2 Mini G1a

Compact size. Tactical AI power.

The HP Z2 Mini G1a delivers advanced AI and graphics in an ultra-compact form—ready for high-impact work like modeling, LLMs, and edge deployments.

Edge-ready AI performance

Up to 16-core AMD Ryzen™ AI Max+ PRO 395 processor^[1] with 128 GB of unified memory (up to 96 GB assignable to the GPU^[2]) powers AI/ML workloads locally—no cloud required.

Deploy with infrastructure agility

At just 3L, the Z2 Mini G1a fits behind displays or in racks with no external bricks. With 8 TB of storage^[3] for pro-grade connectivity, it's built to scale with changing field and facility needs.



HP ZBook 8 G1a

Field-ready AI performance.

Operational-grade mobility.

Built for field-based modeling, LLMs, and video analysis, the HP ZBook 8 G1a delivers pro-level AI performance in a rugged, future-ready form.

Advanced AI for remote missions

With up to 55 TOPS NPU^[1] and AMD Ryzen™ PRO CPU^[2], the HP ZBook 8 G1a handles local AI, geospatial work, and 3D design—supported by 64 GB RAM^[3] and 2 TB of storage^[4].

Designed to endure and evolve

Starting at 3.15 lbs^[5] and MIL-STD certified, the ZBook 8 is made for tough environments and long days—equipped with fast charging, Wi-Fi 7^[6], and ports for modern mission demands.



HP Z6 G5 A

Maximized cores. Mission-ready power.

Built for simulation, AI, and real-time analysis—the HP Z6 G5 A delivers the speed and scalability defense agencies need to create, model, and respond fast.

Accelerate critical workloads

Up to 96-core AMD Ryzen™ Threadripper™ PRO 7000 WX-Series CPU^[1] powers digital twins, AI/ML, and research with unmatched efficiency.

Scale with confidence

Support for up to 3 GPUs^[2], 1 TB DDR5 ECC memory^[3], and up to 88 TB of storage^[4] ensures your system adapts to evolving mission demands—future-proofing your infrastructure without costly upgrades.

Contact a government expert to learn more.

HP Z2 Mini G1a [1] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed. [2] Memory is an optional feature that must be configured at purchase. [3] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of disk is reserved for system recovery software.

HP ZBook 8 G1a [1] Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors. [2] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors. [3] Up to 64GB Memory is an optional, configurable feature. [4] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software. [5] Actual weight throughout may vary. [6] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

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PAGE 2: [1] IDC: Expect 175 zettabytes of data worldwide by 2025" by Andy Patrizio, *Networkworld*, December 3, 2018