

AE-2000 Industrial Edge AI Computing Host

Product Datasheet · AE-2000-a / AE-2000-b
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Product overview

AE-2000 supplies edge AI compute for industrial and commercial sites, using an H610 industrial motherboard and NVIDIA RTX 2000 Ada Generation 16GB GPU. Two configurations differ in CPU, system RAM and storage.

Both share the enclosure/interfaces and were confirmed by the product owner to have passed 7 × 24-hour stability validation. Enterprise knowledge, real-time speech translation and camera monitoring/analysis are confirmed optional application solutions, not standard installed features.

Core capabilities and application value

Capability	Function and value
On-site computation	Run adapted vision, speech and retrieval applications locally.
Same GPU, two configurations	Both have 16GB VRAM; choose by CPU, RAM and storage.
Vision solution	Combine acquisition devices, models and business-system integration.
Knowledge solution	Combine documents, retrieval and suitable small models for queries.
Speech solution	Optional real-time speech translation, integrated for actual audio/application versions.
Control expansion	Control connects a separate IoT module; it is not yet launched or built in.

Typical business uses

Factories, warehouses, stores, showrooms and internal enterprise applications with defined edge-AI or suitable small-model workloads.

01 / Models and Technical Specifications

Model configurations and interfaces

Item	AE-2000-a	AE-2000-b
Motherboard	H610 industrial motherboard	Same
CPU	Intel Core i3-14100	Intel Core i5-14400
RAM	16GB DDR4	32GB DDR4
Storage	512GB SSD	1TB SSD
GPU	NVIDIA RTX 2000 Ada Generation	Same
VRAM	16GB GDDR6 ECC	Same
GPU bus / maximum power	PCIe 4.0 ×8 / 70W (GPU)	Same
GPU outputs	4 × mini DisplayPort 1.4a	Same
Network / USB	1 × Gigabit NET; 4 × USB 3.0	Same
Other interfaces	Control ×1; HDMI IN/OUT ×1 each; Audio I/O ×2	Same
Power / switch	DC IN ×1; ON/OFF ×1	Same
Enclosure / dimensions	Anodized aluminum alloy; 285 × 194 × 75 mm	Same

Technical notes

70W is maximum GPU power, not system power; do not simply add CPU and GPU ratings to declare a system rating. Control connects a separate, unlaunched IoT module; it is not a second business Ethernet port or confirmed Console interface. Optional applications do not imply standard installation or fixed concurrency.

Unconfirmed quantitative specifications

Adapter electrical ratings/pinout, system power, environment, weight, cooling details, SSD protocol and RAM frequency require confirmation.

02 / Compute, Interfaces and Operation

Hardware responsibilities

Component	Meaning and application relationship
CPU / RAM	a: i3-14100 / 16GB; b: i5-14400 / 32GB, affecting application/system headroom.
GPU	Both use RTX 2000 Ada, 16GB GDDR6 ECC; more system RAM does not increase VRAM.
Storage	512GB SSD for a; 1TB SSD for b, storing applications, models and site data.
NET	One Gigabit business port for LAN devices and application access.
Display / input	4 × mini DP 1.4a; HDMI IN / OUT ×1 each; capture applications require integration.
USB / audio	Four USB 3.0 ports and two Audio I/O connectors; actual use depends on devices, drivers and applications.

PCIe 4.0 ×8 and maximum 70W are GPU specifications, not verified motherboard link behavior or system power. DC IN current, pinout, adapter rating and system consumption require documentation.

Control and operations

Control connects a separate IoT module for remote power functions. The module is not yet launched. Control is not a second business port or verified Console; protocol, integration and delivery scope require confirmation. An expansion connector is not a delivered standalone remote-power feature.

Continuous operation and environment

The product owner confirmed 7 × 24-hour stability validation for both configurations. Load, temperature and reports were not supplied; this does not establish wide-temperature, ingress, vibration or third-party ratings, nor arbitrary-load guarantees.

03 / Optional Applications and Solutions

Confirmed deployable application directions

Application	Components and configuration
Enterprise knowledge	Documents, indexing/embedding, retrieval, suitable small models and permission-controlled entry.
Real-time speech translation	Audio capture, recognition, translation and UI services; integrate for languages/site audio.
Camera monitoring/analysis	Cameras/image acquisition, vision models, alerts and business-system integration.
Qwen3-14B example	Quantized installation is confirmed; select quantization, context and runtime per deployment.

These are optional solutions, not default installation, fixed concurrency/languages or validated simultaneous operation. Screenshot FPS, device counts and latency are not universal system metrics.

Knowledge services through multiple entries

Approved documents may serve internal search, product consultation, after-sales queries and marketing drafts according to permissions. Retrieve sources before model generation; verify citations, permissions, human handoff and answer quality.

Digital-presenter use requires additional avatar, voice and interaction systems; it is not a standalone real-time capability. AE-2000 is not a fixed bundle claimed to improve general Agent execution.

Vision and network combinations

Vision solutions combine the host, acquisition devices, models/applications and business integration. Test on actual images for quality and response. Where external resources or remote access are needed, add AiR/cloud connectivity as appropriate. Network and compute roles remain separate; a gateway is not mandatory for every site.

04 / Topology and Deployment Selection

Typical topology

Cameras / audio / documents -> AE-2000 applications -> users
LAN users -> NET -> application Web / model services
Optional: remote user -> network/AiR -> site service
Control -> separate IoT module (not launched; not standard)

Scenarios and application value

Scenario	Configuration focus	Value
Production / warehouse vision	Acquisition + adapted vision app	Assist inspection, monitoring and review.
Enterprise knowledge	Document governance + retrieval + model	Query authorized product/internal documents.
Multilingual service	Audio devices + translation app	Integrate for languages and conditions.
Remote calls/operations	Optional access networking	Provide a path to site services.

Model and component selection

Choose a for more basic CPU/RAM/storage requirements and b for additional resources. Both GPUs are identical; validate the application rather than inferring more VRAM or camera channels from b RAM.

Deployment checks

Confirm configuration -> check supply/peripherals -> fix driver/app versions -> deploy models/data -> verify interfaces/permissions -> test real site samples -> record continuous operation and recovery.

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