

AE-2000 / PRODUCT BROCHURE

Bring AI compute to where work happens

AE-2000 series industrial-grade edge AI computers

On-site compute for vision, speech and enterprise knowledge workflows



AE-2000-a / AE-2000-b

Two system configurations • NVIDIA RTX 2000 Ada 16GB in both

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Turn on-site inputs into usable decisions

AE-2000 is an edge AI computer for industrial and commercial sites. It provides compute for local inference and applications; acquisition devices, models, software and delivery interfaces are selected for each project.



Multilingual meetings

Connect live audio capture to recognition, translation and on-screen text.



AI video monitoring

Analyze site video to help operators review events.



Knowledge workflows

Find evidence in approved documents to support answers and sales drafts.

RTX 2000 Ada: a foundation for edge AI

16GB GDDR6 ECC memory and 70W maximum GPU power support on-site speech recognition, vision and quantized 14B-class LLM deployment in a compact edge compute platform.

Site inputs

Cameras / microphones / approved documents



AE-2000

Local compute and application node



Usable outputs

Captions / review cues / sourced answers



One on-site compute node. Many project workflows.

The product image and I/O are from AE-2000 hardware; software is planned separately for each use case.

Follow the conversation. Leave with the minutes.

From microphone input and live captions to meeting minutes and action items: AE-2000 can deploy speech recognition alongside a quantized Qwen3-14B on one local machine, connecting live translation with post-meeting follow-up.



Illustrative scene • not a customer case

01 INPUT Microphones

Capture meeting audio



02 COMPUTE AE-2000

Recognition + translation + local LLM



03 OUTPUT Captions + minutes

Live display / post-meeting review

APPLICATION STACK / MODEL & COMPONENT EXAMPLES

Whisper large-v3-turbo

Meeting transcription

Qwen3-14B • quantized locally

Translation, minutes, decisions and action items

Microphones + display

Audio capture and multilingual captions

ONE MACHINE / FROM LIVE TALK TO FOLLOW-UP

During the meeting

Translated captions keep participants aligned with the discussion, including remote colleagues.

After the meeting

Turn the transcript into reviewable topics, decisions, owners and tasks for the team to share and follow up.

Go beyond recording: support on-site action

For defined tasks in industrial plants, campuses or commercial spaces, AE-2000 can serve as an on-site video analytics node. Cameras and video systems supply images; project-selected software flags events for operator review.



Video source

TASK FIRST

Specify the event first

Examples include entry into a defined area, equipment-view checks and production footage review. Each calls for suitable models, video access and alert rules.

Cameras / video feeds

Project-specific video access



AE-2000 compute

Run adapted vision applications



Operator / system

Review findings and take action

APPLICATION STACK / MODEL & COMPONENT EXAMPLES

YOLOX-s

Object detection • RTX 2000 Ada acceleration

ByteTrack

Object tracking • continuous event cues

RTSP / VMS

Connect existing cameras and video systems

Turn stored footage into actionable event cues

Detection finds objects of interest; tracking links frames into a usable event trail. Send timestamps and visual cues to operators for review, dispatch or incident lookup—building on existing cameras and VMS rather than replacing them.

More than document Q&A. Knowledge with access and context.

Enterprise knowledge means the right people see the right content. ALNETS can combine permission-aware retrieval, a locally quantized Qwen3-14B, the ALNETS AI Agent Host and a separate memory service: sourced knowledge, controlled access and ongoing context.

KNOWLEDGE / GROUNDED ANSWERS

Filter access, then retrieve

Separate public manuals, internal procedures and sales materials by role. Only retrieve authorized passages; the local AE-2000 model uses them to draft a grounded answer.

MEMORY / CONTINUITY

Carry decisions forward

A separate memory service can retain authorized requirements and project decisions; the ALNETS AI Agent Host runs the task entry point for ongoing collaboration.

Pre- / after-sales

Answer product questions, compare models and find manual steps without repeating basic support work.

Marketing / sales

Draft proposals from approved facts; restrict internal pricing and templates by role.

Agent + Memory

The ALNETS AI Agent Host runs tasks; a separate service carries authorized needs and progress across sessions.

Illustrative workflow • not a software screenshot

REFERENCE STACK / DISTINCT ROLES

BGE-M3 + Qdrant

Semantic retrieval • check document access first

Qwen3-14B / AE-2000

Quantized local model • evidence-based answers

ALNETS AI Agent Host + memory

Agent entry point + separate task context

BEYOND Q&A / KNOWLEDGE THAT WORKS

One trusted knowledge base. Different access for every role.

Customers see published product facts; channel partners see approved proposals; employees use internal procedures. Consistent sources support service, sales preparation and ongoing projects without rebuilding a separate library for each entry point.

AE-2000 runs local inference. The right partners make it useful.

Start with a single-node meeting or video deployment. Add a persistent Agent entry point, remote connectivity or operations tools only where the customer workflow needs them.

CORE / ON-SITE COMPUTE

ALNETS AE-2000

RTX 2000 Ada 16GB • on-site speech, vision, retrieval and quantized Qwen3-14B inference



AGENT / TASK ENTRY

+ ALNETS AI Agent Host

Runs Agent clients and task entry points; connects AE-2000 local model services with knowledge workflows and follow-up tasks.



NETWORK / CLOUD ACCESS

+ ALNETS AiR-100 AI Cloud Gateway Router

Add Cloud Inbound Access to site services and Cloud Outbound Access to external resources as needed.

OPERATIONS / SOFTWARE

+ ALNETS Ai Management Platform (AiM)

View devices, configure gateway settings and connect to on-site hosts through SSH or RDP for remote operations across locations.

MATCH THE STACK TO THE CUSTOMER TASK

Meetings	AE-2000 + microphones / display → translated captions and minutes
Video	AE-2000 + cameras / VMS → event cues and operator review
Enterprise knowledge	AE-2000 + ALNETS AI Agent Host + separate memory service → governed retrieval and task continuity

One GPU platform. Two system configurations.

AE-2000-a and AE-2000-b share the enclosure and RTX 2000 Ada 16GB GPU. The b model increases CPU tier, system memory and local storage—not GPU memory.

Specification	AE-2000-a	AE-2000-b
Industrial motherboard	H610	H610
Processor	Intel Core i3-14100	Intel Core i5-14400
System memory	16GB DDR4	32GB DDR4
Local storage	512GB SSD	1TB SSD
Discrete GPU	NVIDIA RTX 2000 Ada Generation • 16GB GDDR6 ECC	
Dimensions	285 × 194 × 75 mm • shared enclosure	
Continuous operation	Both models have completed 7 × 24-hour stable-operation validation	



Actual product photo. Both configurations share the same exterior and ports.

4 × USB 3.0

Two stacked pairs

1 × NET

Gigabit Ethernet

HDMI IN / OUT

One of each

2 × Audio I/O

Audio ports

4 × Mini DP

GPU video output

DC IN / ON/OFF

Power input / button

Start with a real task. Build a testable solution.

Tell us what happens on site: what to capture, what to analyze and where the result must go. AE-2000 is the compute node; configuration and integration follow the actual project.

01 / BUSINESS

Define the task

Specify languages, video events or knowledge users and documents.

02 / INTEGRATION

Specify the stack

Confirm capture devices, models, software, AE-2000 model, interfaces and network access.

03 / VALIDATION

Test with real samples

Verify response quality, latency, device integration and human review at the target site.

From compute to useful on-site AI

Select models, capture devices and software interfaces around your task. AE-2000 provides the inference node; the application is adapted for the site.

LET'S BUILD THE RIGHT DEPLOYMENT

Let's discuss your site.

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