

AIBEN EDGE BOX – AI COMPUTE PLATFORM

Product Overview

The AiBEN Edge Box – AI Compute Platform is a compact, high-performance Enterprise AI appliance designed to run trusted AI directly where data is created. It combines advanced AI computing with the AiBEN Enterprise Intelligence Layer, enabling organizations to process documents, operational data, and real-time information securely at the edge.

Unlike cloud-only AI solutions, the AiBEN Edge Box keeps sensitive information under the organization's control while delivering real-time, low-latency intelligence. It can operate on-premise, in private networks, or in fully air-gapped environments, making it suitable for mission-critical operations where privacy, resilience, and data sovereignty are essential. This aligns with AiBEN's focus on on-premise, Edge AI, and traceable enterprise intelligence.



HARDWARE PLATFORM

AI Performance

- Up to 67 TOPS AI inference performance
- Optimized for Generative AI, Large Language Models (LLMs), Vision AI, and multimodal AI workloads
- Supports simultaneous AI applications and real-time inference

Processor

- 6-core 64-bit Arm CPU
- Multi-core architecture optimized for Edge AI

AI Accelerator

- Dedicated GPU with Tensor AI acceleration
- Hardware acceleration for AI inference, computer vision, and language models

Memory

- 8 GB LPDDR5 high-speed memory
- High-bandwidth architecture for demanding AI workloads

Storage

- Expandable NVMe SSD support
- microSD support
- Local storage for AI models and enterprise knowledge bases

Connectivity

- Gigabit Ethernet
- USB 3.x high-speed interfaces
- DisplayPort
- M.2 expansion
- GPIO interfaces for industrial integration

Power Efficiency

- Configurable 7–25 W power profile
- Optimized for continuous 24/7 operation
- Low-power Edge AI deployment

BUSINESS BENEFITS

- Works Offline
- Data Sovereignty
- Trusted Intelligence
- Real-Time Decisions
- Portable Deployment
- Enterprise Integration
- Future-Proof Architecture
- Low-latency AI processing directly at the source of data.
- This model-agnostic approach is a core part of AiBEN's platform strategy.
- Sensitive information remains within the organization's own infrastructure.
- Every answer is backed by verifiable enterprise data with complete source traceability.
- Continues operating without Internet connectivity, ideal for remote or secure environments.
- Connects documents, databases, ERP, CRM, IoT devices, sensors, operational systems, and APIs into one intelligence platform.
- Compact enough for deployment in offices, factories, ports, hospitals, vehicles, command centers, and industrial facilities.
- Supports multiple AI models, allowing organizations to adopt newer models over time without redesigning their core AI infrastructure.

SOFTWARE PLATFORM

Enterprise Intelligence Layer

The AiBEN Edge Box comes preloaded with the AiBEN Enterprise Intelligence platform.

Included Solutions

AiBEN Compass

Enterprise Intelligence Layer connecting enterprise knowledge into one trusted operational environment. LegalAI

Contract, policy, compliance, and document intelligence with full source traceability.

PortAI

Maritime and logistics intelligence for ports, terminals, and shipping operations.

TenderAI

AI-powered procurement and tender analysis with requirement extraction and compliance verification.

Enterprise Document Intelligence

Intelligent search, document understanding, and knowledge discovery across enterprise content.

AI Assistants & AI Agents

Task-specific AI assistants that automate enterprise workflows while maintaining explainability and auditability.

CORE CAPABILITIES

- Zero-Hallucination AI
- Full Source Traceability
- Enterprise Retrieval-Augmented Generation (RAG)
- AI Agents
- Document Intelligence
- Operational Intelligence
- Enterprise Knowledge Management
- Multi-document reasoning
- Multi-language support
- Secure local inference
- Human-in-the-loop verification
- Cloud, On-Premise, Hybrid, and Edge deployment