

# AI-BSP-PX1000

Edge AI Storage System

## OVERVIEW

Using Artificial Intelligence to simplify operations - unlocking your data's potential

Your business can't afford any disruptions or delays. And you want nothing more than to spend less time on infrastructure. However, the complexity inevitably leads to unexpected problems and your days, nights, and weekends consumed taking care of infrastructure.

You want to move your business forward, but infrastructure holds you back with an endless cycle of break-fix-tune-repeat. As it becomes increasingly vital and complex, you know this hands-on approach won't work anymore. That's why you keep asking yourself:

- How can I ensure nondisruptive availability for my applications?
- How can I optimize my ever-changing workloads?
- How can I tune my infrastructure for better performance?
- How can I stop the firefighting?

There hasn't been a good answer until now. It's called AI-BSP-PX1000 Edge AI Storage System

### Data is the foundation of Artificial Intelligence

AI-BSP-PX1000 has been at the forefront of this new data paradigm and a decade ago, started designing systems with sensors across the infrastructure stack. Trillions of data points have been collected and available to be used by AI-BSP-PX1000's AI-Engine and every new and existing customer can take advantage of this data engine. Artificial Intelligence (AI), is the key to unlocking the power of your data.



AI-BSP-PX1000 Data Center All-in-One is an innovative genetic data center solution that integrates biotechnology (BT), information technology (IT) and artificial intelligence (AI). It integrates bioinformatics computing acceleration, massive data storage and intelligent analysis, supports independent offline deployment and horizontal expansion, and takes into account security and low operation and maintenance costs.

Facing challenges such as the surge in sequencing throughput, multi-omics fusion and the rapid evolution of AI technology, AI-BSP-PX1000 provides users with efficient and scalable bioinformatics analysis support through flexible architecture and powerful computing power, adapting to diverse scenarios from laboratories to traditional data centers

## APPLICATION

The large-scale data storage and information processing system using artificial intelligence (AI) is a comprehensive technology solution, designed to meet the needs of storing, managing and exploiting big data (Big Data) in organizations, businesses and state management agencies. This solution combines high-performance centralized storage infrastructure and intelligent processing capacity based on artificial intelligence, allowing automation of the analysis process, information extraction and decision support, contributing to improving the efficiency of management, forecasting and policy planning.

## OPERATING PRINCIPLE

The system is deployed according to a layered and centralized data architecture, including three main functional layers: storage - processing - exploitation.

### 1. Data storage (Object Storage):

The system uses Object Storage technology to centrally manage and flexibly expand millions of large-sized data files such as text, images, videos, and audio.

- Supports fragmentation, data replication, and automatic backup mechanisms, ensuring high safety and recovery.
- Integrates access authorization and data encryption mechanisms, meeting the security requirements of state agencies.



### 2. Data processing and analysis (AI Server):

AI servers are responsible for performing intelligent processing tasks, including:

- Classifying and extracting information from text, image, video, and audio documents.
- Automatically creating content summaries, helping to shorten the time to read and synthesize data.
- Training and deploying artificial intelligence models to recognize patterns, predict trends, and automate data processing processes.

### 3. Smart data mining:

Users can access the system via the web interface or internal application to:

- Perform semantic search - the system understands the content of the question and returns the most relevant results.
- Ask specific questions in detailed Q&A mode, allowing to immediately locate relevant content in the original document.
- Track, extract and statistics data that is automatically processed and continuously updated by the system.

## MAIN FUNCTIONS OF THE SYSTEM

### 1. Data input and information processing:

The system automatically continues to receive input file data (text, image, video, audio), analyze and extract content using AI; create summaries and store them in the database.

### 2. Semantic search:

Allow users to enter natural queries; the system understands the context and responds to the most relevant documents and information.

### 3. Detailed question and answer:

Users select documents, ask specific questions; the system automatically searches and highlights relevant location content in text or video.

## BENEFITS AND EFFICIENCY

- Centralize and standardize data: help with unified management, avoid duplication, easy access and backup.
- Automate information processing: reduce manual processing time, improve work efficiency.
- Support decision making: thanks to intelligent data analysis and provide accurate reports and forecasts.
- Secure and flexible expansion: modular architecture, meeting scale requirements from several TB to PB of data.
- Wide application: suitable for administrative, security, education, healthcare, finance and large enterprises.



### Technical specifications AI-BSP-PX1000

OBJECT STORAGE	Large-scale data storage, distributed access support, high availability	Cluster of 3-5 storage nodes, capacity expandable to hundreds of TB, support S3 or Ceph protocol.
COMPUTE SERVER	Platform data processing, workflow management, access coordination	CPU: 2×Xeon 24C/48T; RAM 128GB; HDD 4TB SSD NVMe; NIC 10Gbps.
AI SERVER	Execute artificial intelligence models, image, video, audio processing	CPU: 2×Xeon 48C/96T; RAM: 256GB; GPU: 2×NVIDIA A100; SSD 2TB.
WORKSTATION	System monitoring, management and user interface	Intel i7, 16GB RAM, 1TB SSD, Windows/Linux operating system.

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