



DATAKNOX.IO

# DATAKNOX

## Deploy AI Hardware on Premise



### 7 Proven On-Prem Advantages

- **Full Control Over Hardware**
- **Data Privacy and Ownership**
- **Latency and Real-Time Processing**
- **Performance Consistency**
- **Cost Over Time**
- **Offline Capabilities**
- **Intellectual Property**

### The Problem

Lack of on-premise AI hardware and relying solely on cloud services can expose organizations to a range of vulnerabilities and limitations. These include potential data privacy concerns, as sensitive information must traverse external networks, and the risk of non-compliance with industry-specific regulations. Furthermore, cloud-based solutions can introduce latency issues that impact real-time processing and analysis while incurring uncontrollable costs.

### The Solution

Investing in on-premise AI hardware gives organizations unparalleled data control, enhances security, and ensures compliance. It offers low-latency, real-time analytics and customizable configurations for optimized AI performance. This cost-effective approach is ideal for scalable, long-term AI projects.

The **DATAKNOX** solution uses our proven 7-step process born out of two decades of experience working on data center projects for some of the world's most recognizable brands.

### Result

Moving on prem AI is a massive undertaking, you want to get it right. **DATAKNOX** will be your advocate every step of the way to ensure your business gets exactly what it needs.

**Our established relationships with every leading data center and cloud provider work to your benefit. We've provided data center solutions to clients including Cisco, Seagate, Salesforce and more.**



## Introduction and Background:

Dataknox Solutions, Inc., based in Newark, California, is a Data Center Infrastructure Lifecycle Management provider with a focus on data sanitization and destruction, asset recovery, logistics and install/refresh/de-install services. We have an outstanding track record, referenceable clients, and experience with complex global programs from a few racks in a single cage up to multi-site data center decommissions. For additional details please visit [www.dataknox.io](http://www.dataknox.io)



## Cloud vs On-Prem AI Hardware

Cloud services, while convenient and scalable, pose potential security risks as data is stored off-site, often leading to concerns about unauthorized access and cyberattacks.

Additionally, cloud solutions can become **costly over time**, especially with increasing data storage and transfer needs, and they may limit the organization's control over data and applications.



## Summary of On-premise Advantages

1

Having on-premise AI hardware means you have full control over your computational resources. This is especially beneficial when you need specialized hardware that is tuned for specific AI models or algorithms.

2

With on-premise hardware, your data never leaves your facility unless you want it to, offering you higher levels of security and control. This is invaluable for organizations that are working with sensitive data or are subject to stringent regulatory requirements.

3

On-premise hardware provides the lowest possible latency, making it ideal for applications requiring real-time processing. In the context of AI, this is particularly important for time-sensitive operations like autonomous vehicle control, real-time analytics, and IoT device interactions.

4

With all the hardware on-site, you're less likely to experience performance variability. Cloud services can sometimes suffer from 'noisy neighbors' – other users on the cloud who might be utilizing a large share of the computational resources.

5

While the initial outlay for on-premise hardware can be high, over an extended period, it may be more cost-effective. Cloud solutions typically require ongoing subscription fees, which can become substantial over time, especially as you scale your operations.

6

If your AI models need to run in environments where internet connectivity is unstable or not guaranteed, on-premise solutions are the only feasible option.

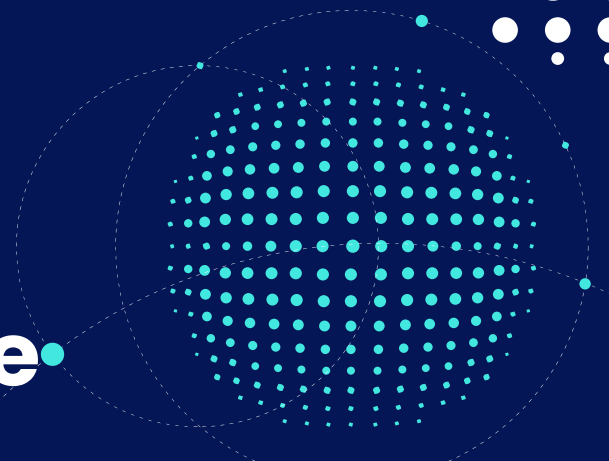
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Running your models on your own hardware can reduce the risk of intellectual property theft. Your proprietary algorithms and data sets are far less likely to be compromised when all computations occur in-house.



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# Redefining Speed & Efficiency: Get More from Your AI with Optimized Hardware



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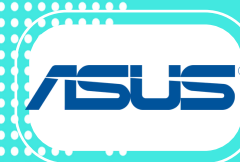
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CLIENT PORTAL FOR ASSET TRACKING, VISIBILITY, AND REPORTING

\*subset of OEM hardware that Dataknox purchases

Tel: 833-DATA-DOA Email: [sales@dataknox.io](mailto:sales@dataknox.io) Website: [www.dataknox.io](http://www.dataknox.io)