SCALITY
RELIABLE. SECURE. SUSTAINABLE.

SCALITY ADI

DATASHEET

Autonomous Data Infrastructure

One platform for enterprise AI, cyber resilience, and sovereign control

Scality ADI (Autonomous Data Infrastructure) is a software appliance for enterprise storage that introduces a new operating model for enterprise data infrastructure. It autonomously and sustainably aligns the right storage media, performance, protection, and economics to each stage of the data lifecycle. The result is performance at scale, stronger recovery readiness, and more sustainable operations across **multi-petabyte to exabyte** environments.

Key benefits

AI-SCALE OBJECT ACCESS

High-concurrency S3 and S3 over RDMA data paths feed GPU pipelines, multimodal RAG, VSS, and KV cache without forcing every workload onto premium flash

CORE5 CYBER RESILIENCE

Five architectural layers (API, data, storage, geographic, architecture) deliver immutability, recoverability, and audit evidence by design

WORKLOAD-ALIGNED MEDIA AGILITY

One namespace and policy-driven lifecycle place hot, warm, and cold data on the right media across NVMe, HDD, tape, and archival targets

AUTONOMOUS OPERATIONS

Workload-aligned agents reduce manual burden across expansion, healing, rebalancing, upgrades, and validation, all under customer-defined policy

SOVEREIGN CONTROL BY DESIGN

Open-code inspectability, deployment control, and data residency keep enterprise and public-sector workloads under your governance

REAL-TIME POWER AWARENESS

Visibility at system, node, and workload levels helps teams operate within real facility limits and turn sustainability into verifiable data

Ideal use cases

- **Enterprise AI for core and edge**, supporting multimodal RAG, video search and summarization, deep research agents, and KV cache
- **Cyber resilience and ransomware-ready** backup and recovery with immutable, high-scale object storage
- **Sovereign cloud and shared multi-tenant data platforms** for regulated and public-sector environments
- **Multi-petabyte to exabyte unstructured data environments** under operational pressure

Built for AI

- **GPU-direct via S3 over RDMA**, delivered through the NVIDIA AI Data Platform partnership
- **5M+ tokens per second throughput,** even on HDDbased configurations
- **Multimodal agentic RAG, VSS, deep research agents, and KV cache** for retrieval and inference workloads
- **Bi-directional core-to-edge AI data flows**, governed and auditable end to end
- **Full pipeline coverage** from ingest and prep through training, inference, and long-term retention

Scality ADI is more than smarter storage.
It is a new operating model for enterprise data infrastructure, delivered as open-code software with outcome-based SLA pricing for availability, throughput, and protection posture.

Built for GPU hunger, deep cold, and everything in between

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