

DATAFLOW: STORAGE FOR EVERY NEED

Modern data environments demand different types of storage for different jobs. The Thinkmate DataFlow family solves this challenge with a curated set of storage platforms, each optimized for its intended use case and engineered to provide the scale, throughput, and long-term reliability today's workloads require. From flexible NAS systems to high-performance parallel storage and distributed Ceph clusters, DataFlow spans the full spectrum of performance and capacity needs.

Each solution is supported by Thinkmate's engineering expertise and full solution support, ensuring you get the right performance, capacity, and cost profile while we handle the architectural complexity.

DATAFLOW AT-A-GLANCE

	DATAFLOW NAS (Value, Pro, Elite)	DATAFLOW CPH (Ceph)	DATAFLOW HPS (VDURA)
PURPOSE	Enterprise NAS across entry level to petabyte scale	Distributed, cloud-native scale-out storage	High-performance storage for AI/HPC
KEY STRENGTHS	ZFS reliability, simple management, flexible configs	Object, block, file at massive scale	Flash-first parallel architecture, linear scale, unified hot/cold tiers
IDEAL FOR	File services, backup, departmental storage	Data lakes, research, multi-site workflows	AI training, HPC simulation, GPU clusters

WHY CHOOSE DATAFLOW: KEY ADVANTAGES

- Designed to support everything from small departmental needs to multi-petabyte environments
- A consistent, predictable storage architecture
- Ability to scale performance or capacity without switching ecosystems
- Simplified support model across all tiers
- Thinkmate engineering to guide choices based on application requirements

DATAFLOW FAMILY OVERVIEW

DATAFLOW NAS

Flexible, Reliable NAS for Every File-Driven Workload



Built on ZFS and engineered for consistent performance and reliability, the DataFlow NAS line spans three tiers (Value, Pro, and Elite) so you can size the system to your environment without losing features or support continuity.

DATAFLOW NAS OVERVIEW

VALUE

- 150TB - 380TB
- Reliable, efficient entry-level storage

PRO

- 150TB - 1PB
- Scalable, professionally supported performance

ELITE

- 1PB - 4PB
- Enterprise-class availability and flexibility

DATAFLOW NAS KEY FEATURES

- ZFS snapshots, compression, deduplication
- NFS, SMB, iSCSI support
- Redundant power and networking options
- Tuned configurations built and validated by Thinkmate engineers
- Ideal for: file shares, backup/restore, media pipelines, edge storage

DATAFLOW CPH

Scale-Out, Software-Defined Storage for Distributed Data Environments

DataFlow CPH is a turnkey Ceph storage platform that combines Thinkmate hardware with Croit's intuitive management and 24/7 support, delivering the power of open-source Ceph without the complexity or cost. The system is easy to deploy, simple to operate, and designed to scale predictably, while avoiding proprietary licensing and hardware lock-in.

 EASY	 RELIABLE	 SCALABLE	 VALUE
Spin up a production Ceph cluster in minutes	Protect data with replication and erasure-coding	Expand capacity and performance as needs grow	One of the best cost per petabyte solutions available

DATAFLOW CPH KEY FEATURES

- Guided setup lets you bring up a production Ceph cluster in minutes
- Manage block, file, and object storage services in one UI
- Protect data via replication, erasure coding, self-healing, and background scrubbing
- Add or remove hardware whenever needed; Ceph automatically rebalances
- Open-source software and commodity hardware keep per-terabyte cost low
- Thinkmate engineering and support to design, optimize, and deploy the right CPH configuration

DATAFLOW HPS

High-Performance Storage for AI, HPC, and High-Velocity Pipelines



DataFlow HPS, built on the VDURA platform, delivers the performance needed for AI training clusters, simulation workloads, and ingest-heavy data environments. It solves the gaps traditional NAS can't address, delivering consistent throughput, fast random I/O, and linear expansion as your cluster grows.

DATAFLOW HPS KEY FEATURES

- Flash-first parallel file system optimized for sustained performance
- Linear scaling of throughput and capacity by simply adding nodes
- Unified namespace for flash + HDD tiers (hot/warm/cold data)
- Shared-nothing architecture for resilience and uptime
- Designed for GPU-dense compute, AI model training pipelines, and HPC nodes

LET THINKMATE GUIDE YOU

Choosing the right storage architecture is easier with engineering support. Thinkmate's experts guide you toward the best fit among NAS, CPH, and HPS and help you achieve the right performance, capacity, and cost profile.

CONTACT THINKMATE TO BUILD YOUR DATAFLOW SOLUTION



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