OpenDrives
Better, Faster NAS.

OpenDrives delivers performance that accelerates production workflows 10 times faster than any other NAS solution on the market today.

In a business where IT budgets are shrinking and both data storage and bandwidth requirements are ballooning, the data storage needs of high resolution video workflows were never really satisfied, that is, until now. The OpenDrives storage platform was developed to address the unique needs of the industry and to provide unrivaled performance at a fraction of the cost of traditional vendors. As a matter of fact, our founders started OpenDrives after successfully solving their own storage problems experienced in the industry, so we grew out of deep insider knowledge of the pain points and the necessary solutions.

OpenDrives delivers performance and flexibility at a price that makes sense. The OpenDrives storage platform not only allows media professionals to stay competitive, but also enables them to push the boundaries and discover new efficiencies in their workflows and business models. We are passionately committed to partnering with our customers to create maximum ROI and benefit to their core business.

A fast, scalable, cost-effective and easy to manage data storage platform that's purpose built specifically for high resolution video and imaging workflows.

Product Range

In diverse multi-user content creation environment, the OpenDrives product range delivers performance that can increase production workflows by up to 10 times faster than any other storage provider.

Apex
All SSD for truly demanding workflows, nothing can stop the power of Apex. Ideal for handling 4K, 6K, 8K, High Dynamic Range (HDR), High Frame Rate (HFR), and Virtual Reality (VR) content workflows.

Summit
A Hybrid SSD/HDD delivers a flexible and powerful system with superior cache management and SSD acceleration designed to optimize high-throughput workflow.

Ridgeview
A high-density, ultra-efficient storage solution perfect for nearline and active archive use cases. Ridgeview provides cost-effective data resiliency, reliability and accessibility for the long-term while also delivering significant speed and performance.

Pinnacle
Professional-grade hybrid and all flash network attached storage solutions designed for small workgroups and teams to collaborate without sacrificing performance in their high-resolution video workflow.

Atlas
Atlas, the robust OpenDrives Omni-management operating system features capabilities to optimize performance and protect data. Flexibility and scalability in a single management interface. Atlas is the intelligent layer that keep OpenDrives systems ahead of your workflow.

Atlas Features

OmniDrive
Native media accelerator

OmniLogic
Predictive capacity analytics

OmniSpeed
Intelligent data segmenting

OmniIntent
Intent based bandwidth distribution

OmniRepair
Proactive self-healing file regeneration

OmniProtect
Ensuring end-to-end absolute data integrity

OmniBackup
Snapshots, mirroring, compression and deduplication

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	PINNACLE	SUMMIT	RIDGEVIEW	APEX
	Powerful Entry Level Hybrid HDD/NVMe Storage	Powerful Hybrid HDD/NVMe Storage	Enterprise Flexible High Density Storage for Active Archive	Extreme Performance All-Flash Storage
Solution Type	Hybrid HDD/NVMe Flash	Hybrid HDD/NVMe Flash	All HDD	All SAS SSD
Rack Units	2U System Head 2U Expansion	4U System Head 4U Expansion	2U System Head 4U Expansion	4U System Head 4U Expansion
Disk Count	12 Head 12 Expansion (up to 36 drives total)	36 Head 44 Expansion	12 HDD Head 45 Expansion	72 SSD Head 72 SSD Expansion
Dimensions (H x W x D)	3.5" x 17.2" x 27.5"	7" x 17.2" x 27.5"	3.5" x 17.2" x 27.5" Head 7" x 17.2" x 27.5" Expansion	7" x 17.2" x 27.5"
Capacity	48TB to 288TB	72TB to multiple PB	144TB to multiple PB	28TB to multiple PB
Performance	Up to 5GB/s aggregate throughput	9GB/s aggregate throughput - media accelerator	Up to 5GB aggregate throughput	18GB/s aggregate throughput
Stream Count	UHD ProRes 422 LT UHD ProRes XQ DNxHR HQ	1 Stream UHD 10 bit	UHD ProRes 422 LT UHD ProRes XQ DNxHR HQ	6 Streams UHD 10 bit
Networking Protocol	Native NAS protocols (NFS/SMB)	Native NAS protocols (NFS/SMB)	Native NAS protocols (NFS/SMB)	Native NAS protocols (NFS/SMB)
LAN Connection Speeds	1/10/40/50/100 GB Ethernet	1/10/40/50/100 GB Ethernet	1/10/40/50/100 GB Ethernet	1/10/40/50/100 GB Ethernet

Capabilities

Speed & Performance

For content creators and media professionals who routinely deal with massively sized individual files, what really matters is throughput between the disks and the client. OpenDrives storage systems are designed with speed and performance in mind to handle the large files typical of the media and entertainment industry. We understand the challenges in post-production workflows and know that speed and performance are non-negotiable in a solution.

We can achieve such a high level of performance because of our unique architecture and proprietary operating system. In an OpenDrives solution, RAM-based interception of metadata and file seek requests dramatically reduce file seek times, while the modular configuration of the systems allow for direct-connect 1GB, 10GB, 40GB, 50GB and 100GB Ethernet to align to your current network topology and to drive future bandwidth requirements. OpenDrives storage solutions scale with your organization and its ever-evolving needs.

Media Acceleration

Summit adds an additional layer of high-speed SSD caching with OmniDrive, making read operations blisteringly fast and freeing up the spinning disks to focus on our intelligent write operations.

First Class Data Protection

Never lose a file! All OpenDrives products use a fully-checksummed filesystem to constantly verify the integrity of your data. Whether writing or reading, if a bad data block is detected, the system automatically heals itself by calculating and correcting the bad data on the fly. Data corruption and bit rot are a thing of the past and not something you have to monitor and fix manually.

Efficient Data Storage

Use your drives more efficiently. Instead of the fixed block size of traditional file systems, OpenDrives uses variable block sizes to store your data. No more wasted space from mismatched block alignment! In an OpenDrives storage system, the block size matches the exact requirements for the piece of data being written to disk.

With optional data compression, storage use and performance can be dramatically improved. Our inline data-type detection automatically enacts compression for files that can benefit from compression. Ideal for uncompressed image data such as DPX and OpenEXR or compositing layers with transparency and alpha channels.

Self-Healing

OmniRepair is a self-healing restoration operation that works in the background to perceive things like file corruption issues keeping you a step ahead of data corruption.

Bandwidth Management

Control the amount of bandwidth for optimal performance of your workflow. OmniIntent allows you to run continuous backups without compromising performance.

Long Term Data Storage

OpenDrives systems are designed to go the distance. We over-engineer our hardware to ensure long-term performance and reliability. The 128-bit file system also provides virtually unlimited scalability.

Predictive Capacity Over Time Analytics

OpenDrives system capacity can easily be expanded with our corresponding 'X' devices. A live production system can be expanded online without interruption or downtime.

Backup & Data Snapshots

Schedule multi-threaded asynchronous automated backups at 4TB per hour and create a point-in-time snapshot before making any critical changes without sacrificing performance.

Replication & Mirroring

Synchronous and asynchronous block level replication and mirroring can be configured when needing to ensure high availability or disaster recovery of a data set.

Flexible Architecture

With support for a variety of connectivity, capacity, and performance options, as well as a modular component upgrade paths, OpenDrives storage can be configured to integrate into any of your challenging workflows and scale accordingly as your company grows.