

SOFTWARE DEFINED STORAGE NAS

Smart. Scalable. Secure.

IOPStor Storage Platform



IOPStor Enterprise Storage Appliance
Server-Class • NAS • Software Defined Storage

Meet Business Needs Now and Tomorrow

A flexible software-defined storage platform built around ZFS, scalable capacity and broad enterprise connectivity.

- ZFS-based data protection
- RAID-Z storage
- SSD read/write caching
- Replication & snapshots

FEATURE SET

• Scalability	• Replication	• Web Interface
• De-duplication	• ZFS Data Security	• SSD Read/Write Caching
• Hardware Agnostic	• SMB/CIFS / FTP	• FC / NFS
• iSCSI Block Storage	• High Availability	• Enterprise Ready
• VMware / Citrix / Windows Server Certified	• Unlimited Snapshots	• Customizable

KEY ADVANTAGES

ZFS Data Security Checksums, scrubs, snapshots and RAID-Z help protect data integrity.	Flexible Expansion Add drives or replace drives with larger capacity without migrating data.
Performance RAM and SSD caching plus compression help accelerate everyday storage workloads.	Enterprise Connectivity File and block protocols, Active Directory integration and web management.
Hardware Agnostic Designed to avoid lock-in to a single hardware vendor.	Cost Conscious No IOPStor software subscription or licence renewal model.

PLATFORM CAPABILITIES

KEEP YOUR DATA SAFE

- **Built on ZFS** ZFS is a file system and volume manager designed so data stays correct.
- **Self-Healing Data** Every block is checksummed and verified on read. Scheduled scrubs check the pool and redundant copies can be used for repair.
- **Snapshots & Clones** Create read-only point-in-time copies and working clones for recovery and testing.
- **RAID-Z** RAID-Z1, Z2 and Z3 support protection against one, two or three failed drives.
- **Encryption** Optional AES-256 encryption for selected data, with customer-controlled keys.
- **Replication** Copy data to a second system on-site or at another location; only changes are transferred.

FAST WHERE IT MATTERS

- **Read/Write Cache** Frequently accessed data can be served from RAM and SSD cache; SSD/NVMe write logging can reduce write wait time.
- **Compression** LZ4 compression works in the background and can improve storage efficiency.
- **Hybrid Pools** Keep active data on SSD pools and older data on larger HDD pools.
- **Link Aggregation** Combine network ports using LACP for aggregate bandwidth and resilience.

MAKE THE MOST OF EVERY DRIVE

- **Deduplication** Stores repeated blocks only once, helping save space for workloads such as virtual machines.
- **Quotas & Reservations** Set space limits or guaranteed minimums for departments and shares.
- **Expand Without Migrating** Add drives or replace drives with larger ones without reformatting or moving data.
- **Hardware Agnostic** Avoid lock-in to one hardware vendor.

WORKS WITH WHAT YOU ALREADY RUN

- **File Sharing** SMB for Windows and Mac, NFS for Linux and VMware, and FTP.
- **Block Storage** iSCSI volumes for virtual machines and databases.
- **Active Directory** Use existing Windows domain accounts and AD group permissions.
- **Cloud Sync** Back up or sync selected folders to S3 Compatible Storage.
- **Certified** VMware Ready, Citrix Ready, Windows Server Certified and Cisco Compatible.
- **Web Management** Shares, users, snapshots and replication can be managed from one web interface.



SOFTWARE DEFINED STORAGE NAS | ENTERPRISE SERVER & NAS PLATFORM

ENTERPRISE STORAGE	SERVER-CLASS PLATFORM	SECURE • SCALABLE • READY
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SPECIFICATIONS (Model No: IOP821MB)

SPECIFICATION	DETAIL
CPU	Intel Xeon 4214R 12core 2.4GHz *1nos (Dual Socket LGA-3647)
RAM	16 GB DDR4 (Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; DDR4-2933MHz, in 8 DIMM slots,)
System SSD	120 GB SATA * 2nos
Cache SSD	120 GB SATA
Chassis	2U 8-Slot 12G Backplane for 8x 3.5" SAS3/SATA HDD/SSD 600W / 650W 1U Redundant Power Supply
Network	2 × RJ45 Gigabit Ethernet LAN ports
Storage Data HDD	As required (Dedicated 3.5" drive mounts)

STORAGE OPTIONS

DRIVE OPTION	DRIVE CONFIGURATION	RAW CAPACITY	USABLE RAID-Z1
2TB SATA HDD	2TB × 4	8TB	6TB
4TB SATA HDD	4TB × 4	16TB	12TB
8TB SATA HDD	8TB × 4	32TB	24TB
16TB SATA HDD	16TB × 4	64TB	48TB
18TB SATA HDD	18TB × 4	72TB	54TB
960GB SATA SSD	960GB × 4	3.84TB	2.88TB
1.92TB SATA SSD	1.92TB × 4	7.68TB	5.76TB
3.84TB SATA SSD	3.84TB × 4	15.36TB	11.52TB

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