IOPStor IOP163B Network Attached Storage (NAS)   Data Sheet

IOPStor: Storage Made Easy

Application data, virtual images, client files, email, the types of data central to running a successful business can seem endless. With IOPStor® you finally have an advanced and easy-to use solution for centralizing, securing and controlling access to your digital assets. Way more than just simple unified (NAS and SAN) storage for your company, IOPStor allows you to do more than you ever thought you could afford by pairing the latest in performance with innovative efficiency technologies such as unlimited snapshots, thin provisioning etc. Designed specifically for the unique needs of SMB & Enterprise, devices are virtualization-ready with iSCSI and NFS support, thin provisioning capability and compatibility with VMware®, Citrix® Microsoft®, Proxmox VE, oVirt, etc. These days, your data is your world. With IOPStor, protecting and accessing that world has never been easier. IOPStor — Storage Made EASY.

Key Business Features

- Data Scrubbing: A technology protecting your files from unplanned degradation

- Unlimited Snapshots: Unlimited data snapshot capability for on-box protection and flexible data recovery

- Data Replication: Maintain data sets in multiple locations or ensure protection of data from remote or branch office locations

- iSCSI and Thin Provisioning: Powerful tools for a business's taking advantage of virtual infrastructures

- Enterprise GUI

Key Business Solutions

- File Server: Unified storage platform for sharing files between Windows, Mac and Linux-based computers

- SW RAID redundancy with automatic expansion and unlimited data snapshots for point-in-time restore

- Virtualization: Thin provisioning, iSCSI support and certified with VMware and Microsoft

IOPStor Desktop Model Comparison – Rack mount

Hardware	IOP163B
➢ Image	
➢ CPU	Intel Xeon
➢ Memory	64GB DDR4 ECC
➢ Drive Bays	16 bay
➢ Drive Types Supported	3.5" or 2.5"
➢ Hot Swappable Drives	Yes
➢ Max Raw Internal Capacity (Based on 14TB drives):	224TB
➢ Read Cache	120GB
➢ Gigabit LAN Ports	10G * 2
➢ Power Supply	1000 Watts RPS
➢ Fan (mm)	5 * 80
➢ Scalability	Unlimited
➢ Dimensions D*W*H (mm)	1013 x 676 x 330
➢ Weight (kg)	23.59
➢ Warranty	3 years

Software and Functionality	
➢ Data Protection with Unlimited Snapshots	Yes
➢ Web-managed Replication for	Yes
➢ iSCSI and Thin Provisioning	Yes
➢ SSD Cache	Yes
➢ 30sec RAID boot	Yes
➢ RAID type – 0,1,5,10,	Yes
➢ De-duplication	Yes
➢ Compression	Yes
➢ Hot data management	Yes
➢ File Sharing	Yes
➢ Block Storage	Yes
➢ Volume Size	Unlimited

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IOPStor Solutions

File Sharing

These days, running a successful business often depends on successful file sharing—application data, virtual images, client files, email, all the digital files that make your business go. With IOPStor, you finally have an advanced and easy-to-use solution for centralizing, securing, and sharing those critical assets. Faster processors mean more simultaneous users can access unified storage—across PC, Mac and Linux environments.
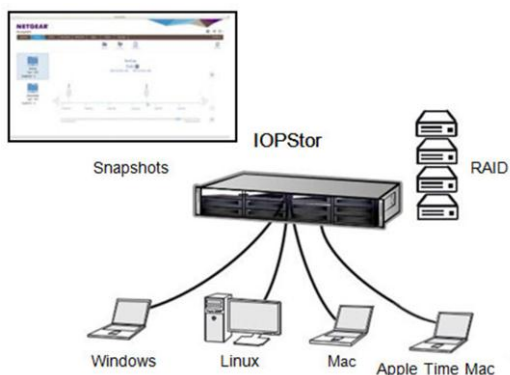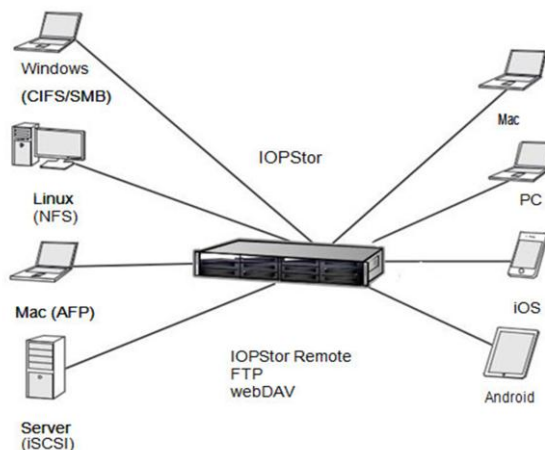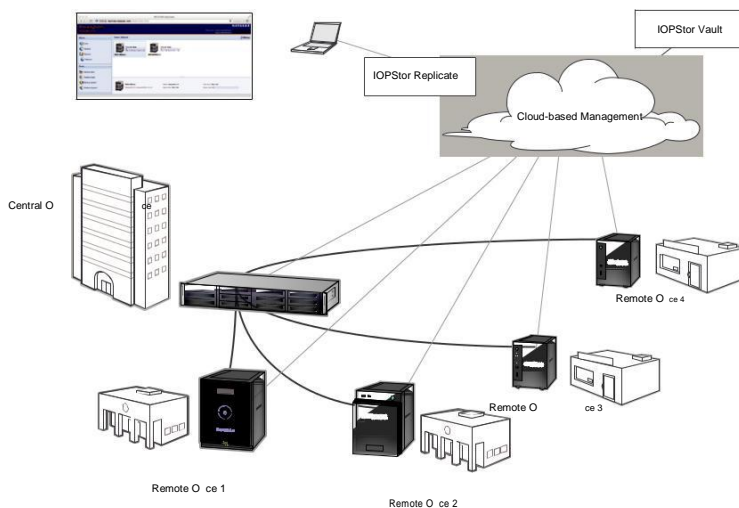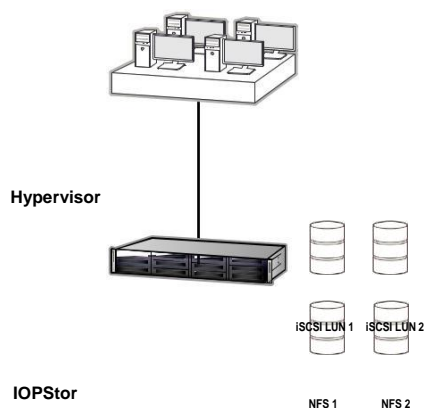

Backup

Unlimited snapshots give you complete control over the past, present, and future of your data. This enterprise-class feature copies any point of time in the file system, can be manually or automatically scheduled, and can restore any version with a simple click.

Disaster Recovery

Data Replication for onsite & off site data protection is done seamlessly.

Virtualization

With Unlimited Snapshots, thin provisioning, and improved iSCSI support, IOPStor delivers a virtualization platform with next-generation features at an affordable price.

Technical Specifications

Data Protection (Backup & Replication)

- Unlimited block-based snapshots for continuous data protection
- Restore Snapshots to any point in time
- Restore Snapshot data from local admin GUI
- Scheduled and manual snapshots
- File Synchronization (rsync)
- Remote Replication
- RAID Levels: RAID Z, RAID Z1, RAID Z2, mirror, stripe, mirror + stripe equivalent to0, 1, 5, 6, 10, others (RAID level support depends on number of drives/bays)
- RAID Global Hot Spare

Storage Area Networks (SAN), Virtualization

- Unlimited iSCSI LUN Snapshot
- Thin or thick provision LUNs
- Multi-LUN per target
- LUN mapping
- LUN masking
- SPC-3 Persistent Reservation (iSCSI)
- MPIO (iSCSI)

File System & Transfer Protocols

- External File System: EXT3, EXT4, NTFS, FAT32, HFS+
- Copy-on-write file system
- Microsoft Network (CIFS/SMB)
- Apple OS X (AFP 3.3)
- Linux/Unix (NFS v3)
- Internet (HTTP)
- Secure Internet (HTTPS)
- File Transfer Protocol (FTP)
- Secure Shell (SSH)
- Web Authoring (WebDAV)
- Storage Array Network (iSCSI)
- File Synchronization (rsync)
- Local web file manager

Users/Groups

- Share Folder Level ACL Support
- Advanced Folder Permissions with Subfolder ACL support for CIFS/SMB, AFP, FTP
- Microsoft Active Directory (AD) Domain Controller Authentication
- Local access list

Management

- Save and restore system configuration (clone devices)
- Local event log
- Thin provision Shares and LUNs
- Instant Provisioning/Expansion with data protection
- Restore to factory default
- Operating Systems supported: Microsoft Windows 7, 8/8.1, 10, Microsoft Windows Server 2008 R2/2012, Apple OS X, Linux/Unix, Solaris, Apple iOS, Google Android
- Supported Web Browsers (Microsoft Internet Explorer 9+, Mozilla Firefox 14+, Google Chrome 20+, Apple Safari 5+)

System Monitoring

- Device capacity, performance, resource and health monitoring
- Bad block scan
- Hard Drive S.M.A.R.T.
- File System Check
- Disk Scrubbing
- Volume balance
- Alerts (SMTP email)

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Technical Specifications

Networking Protocols

- TCP/IP
- IPv4
- Next-generation Internet Protocol (IPv6)
- Static IP Address
- Dynamic IP Address
- Multiple IP Settings
- DHCP Client
- UPnP Discovery

- Link Aggregation IEEE 802.3ad
- Port Trunking (balanced round robin, active backup, balance xor, broadcast, 802.3ad link aggregation LACP, transmit load balancing, adaptive load balancing)
- Hash Types IEEE 802.3ad LACP or XOR (Layer 2, Layer3, Layer 4)
- Jumbo Frames
- Static routes
- Secure Shell (SSH)
- Simple Network Management Protocol v2, v3
- Network Time Protocol (NTP)

Hardware

- Intel Xeon
- Memory: **64GB DDR4 ECC**
- Flash: **60GB*2 for OS**
- Drive Bays: 16
- Drive Types Supported: 2.5" or 3.5"
- Hot Swappable Drives
- Total solution capacity: **224TB based on 14TB**
- Read Cache – **120GB**
- Scalability - Unlimited
- 10G Ethernet ports with link aggregation and failover
- LEDs: Power, Activity, Disk, Backup, LAN
- Integrated rack mount ears
- Five 80mm fans
- Dimensions (D*W*H): 1013mm x 676mm x 330mm
- Weight: 23.59 kg
- Power cord localized to country of sale