

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 IOP242B Network Attached Storage (NAS)

Data Sheet

IOP242B

IOPStor Desktop Model Comparison – Rack mount

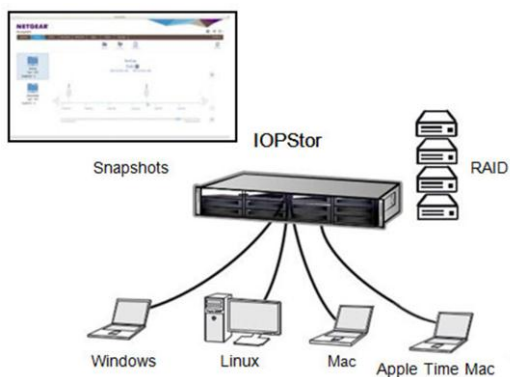
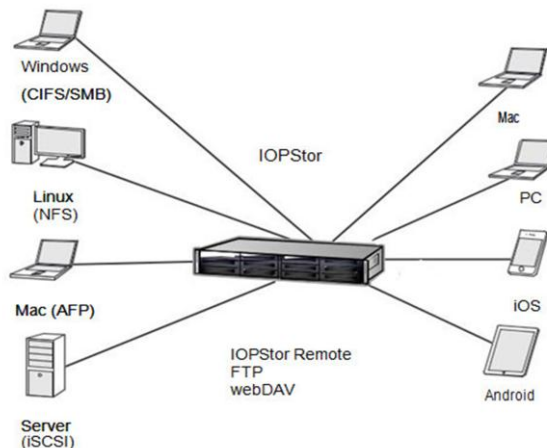
| Hardware | IOP242B |
|--|---|
| |  |
| ➤ Image | |
| ➤ CPU | Intel Xeon |
| ➤ Memory | 32GB DDR4 ECC expandable up to 128GB |
| ➤ Drive Bays | 24 bay |
| ➤ Drive Types Supported | 2.5" |
| ➤ Hot Swappable Drives | Yes |
| ➤ Max Raw Internal Capacity (Based on 15.36TB drives): | 368TB |
| ➤ Read Cache | 240GB |
| ➤ Gigabit LAN Ports | 10G * 2 |
| ➤ Power Supply | 920 Watts RPS |
| ➤ Fan (mm) | 3 * 80 |
| ➤ Scalability | Unlimited |
| ➤ Dimensions D*W*H (mm) | 630 x 437 x 89 |
| ➤ Weight (kg) | 24.04 |
| ➤ 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 |

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.

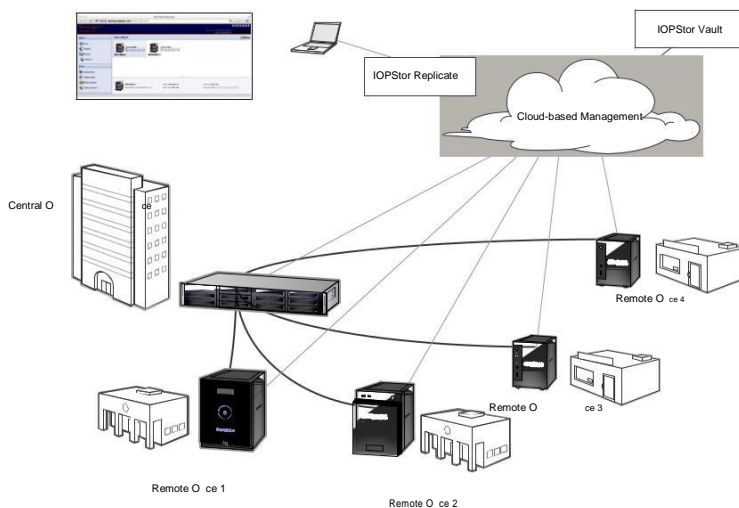
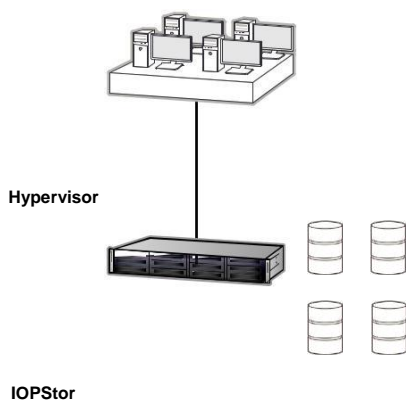


Backup

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 to 0, 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)

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: 32GB DDR4 ECC expandable up to 128GB
- Flash: 60GB*1 for OS
- Drive Bays: 24
- Drive Types Supported: 2.5"
- Hot Swappable Drives
- Total solution capacity: 368TB based on 15.36TB
- Read Cache – 240GB
- Scalability - Unlimited
- 10G Ethernet ports with link aggregation and failover
- LEDs: Power, Activity, Disk, Backup, LAN
- Integrated rack mount ears
- Three 80mm fans
- Dimensions (D*W*H): 630mm x 437mm x 89mm
- Weight: 24.04 kg
- Power cord localized to country of sale

IOPStor IOP242B Network Attached Storage (NAS)

Data Sheet

IOP242B

| Specification | Values |
|--|------------------|
| Storage System Type | SAN |
| Group2 | |
| Storage Capacity (TB) | 368 terabyte |
| Group3 | |
| Hardware Form Factor of Storage System (RU) | 2 |
| Disk | |
| Disk Type | SAS |
| Speed of dual ported disk drive in Gbps | 12Gbps |
| Total Numbers of Drive Slots | 24 |
| Number of Drive Slots Populated with drives of different type in the Storage System | 24 |
| Total no of drive slot populated with SSD | 0 |
| Total no of drive slot populated with Flash Drive | 0 |
| Total no of drive slot populated with SAS | 0 |
| Total no of drive slot populated with NL-SAS | 0 |
| Drive Type Wise Storage Capacity of System in GB | 15360 |
| Automated Storage tiering feature across the populated Drives types(in case of multiple drive system) | No |
| Automated Storage tiering Software License Included | No |
| Hot Spares | Yes |
| Number of Populated Disks per Hot Spare | 1 |
| Provision for additional Capacity | Yes |
| If Yes, Number of Drive Slots available to achieve additional capacity | Unlimited |
| Connectivity/Port | |
| Type of Front end Ports | No |
| Number of Front end Ports | No |
| Speed of front end Ports in Gbps | No |
| Type of Back end Ports | Lan |
| Number of Back end Ports | 2 |
| Speed of Back end ports in Gbps | 10G |
| Number of Remote Replication Ports(FC/Ethernet) | 2 |
| Controllers | |
| Number of Controllers/VSD/ Node available in the storage System | 1 |
| RAID Level Support | 0,1,5,6,10,50,60 |
| Active-Active Controllers Configured in HA | NA |
| Active Stand by Controller Configured in HA | NA |
| System Cache | |
| Cache Availability Type | Global |
| Total Configurable Cache (GB) | 240GB |
| Group4 | |
| Wide Stripping or equivalent feature | TRUE |

IOPStor IOP242B Network Attached Storage (NAS)

Data Sheet

| | |
|---|-----------|
| Group5 | |
| No of Snapshot Copies Per Volume | 255 |
| License for Snapshot included | Yes |
| Data Replication | |
| Remote Replication | Yes |
| Remote Replication license included | Yes |
| Synchronized Replication Support | Yes |
| Synchronous Replication license included | Yes |
| Asynchronous Replication Support | Yes |
| Asynchronuos Replication license included | Yes |
| 3-DC Zero Data Loss Support | No |
| If Yes, Supported Replication Topology for 3-DC Zero Data Loss | No |
| Group6 | |
| Type of Data Compression | S/W Level |
| Type of Data Deduplication | S/W Level |
| No Single point of Failure with Non-Disruptive replacement of Hardware | Yes |
| The Storage provide Non disruptive Firmware /Microcode upgrade | Yes |
| Firmware upgrade without any controller reboot | Yes |
| Encryption Mode | |
| Encryption Required | FALSE |
| Type of Data at Rest Encryption | SW based |
| Group7 | |
| Storage management software for configuration and multi-pathing(part of the supply). | YES |
| Group8 | |
| Multi-pathing and load balancing and fail over software (part of supply) with license for windows/Linux servers or shall support native multipathing of OS. | YES |
| Group 9 | |
| Protocols Supported by the storage system from day one | Yes |
| Group 10 | |
| Operating System Platform and Clustering Supported by the Storage from day one | Yes |
| Group11 | |
| Operating Temp Range | 60 |
| Group12 | |
| Storage Temp Range | 55 |
| Group13 | |
| Operating Humidity (Rh) | 85 |
| Group14 | |
| Storage Humidity (Rh) | 80 |

IOPStor IOP242B Network Attached Storage (NAS)

Data Sheet

| | |
|--|---|
| Group15 | |
| BIS Registration under CRS of MeiTY | No |
| If Yes, BIS Registration No under CRS of MeiTY otherwise indicate N/A | No |
| BIS Registration Certificate shall be furnished when demanded by the buyer | No |
| Group16 | |
| Storage System is compliant with IPv6 | TRUE |
| Group17 | |
| Standby power consumption of System in Watt | 250 |
| Group18 | |
| Scope of Supply | It includes installation, commissioning & integration together with all necessary software to make the system fully functional as intended. |
| Group19 | |
| On Site OEM Warranty | 3 |