

## lomega<sup>®</sup> StorCenter<sup>™</sup> px12-350r Network Storage Array, Server Class Series, 24TB, 36TB

### Description

The lomega<sup>®</sup> StorCenter<sup>™</sup> px12-350r Network Storage Array is a powerful network storage solution offering the highest levels of performance and advanced data protection for small- to medium-sized businesses and the distributed enterprise. Powered by enterprise-class EMC<sup>®</sup> storage technology, the StorCenter px12-350r is ideal for production data stores, server virtualization, backup-to-disk target and video surveillance. Delivered in fully populated configurations of 24TB or 36TB in a single array. The high performance px12-350r is better, faster and more reliable for your mission critical data. The StorCenter px12-350r includes many enterprise-class features, such as device-to-device data replication to ensure data integrity at both the source and the replication target and businesses will appreciate extremely high throughput with quad-Gigabit Ethernet connectivity and an Intel<sup>®</sup> Core<sup>™</sup>2 Duo Processor, plus link aggregation (port bonding), **server class** hard drives, and the option of solid state drives.

### Features

**Capacity:** Fully populated at 24TB (12 x 2TB SATA HDDs) and 36TB (12 x 3TB SATA HDDs)

- Server Class hard drives are used to ensure higher reliability and performance. These drives are designed to better handle rotational vibration and continuous operation for mission critical applications. Ideal for video surveillance applications.
- Preconfigured in a 10+2 RAID 6 setup. Ready to go. No need to wait for the RAID to build when adding expansion packs.

**Expandability:** Add storage capacity by simply adding drives in the unpopulated drive bays. Added drives can be brought into an existing Storage Pool or made into a new Storage Pool. Additionally, USB connected Hard Disk Drives can be attached and used as shares. The StorCenter px12 supports read and write on Fat32, NTFS, or ext2/ext3 formatted hard disks; read only of external HFS+ formatted drives.

**RAID Support:** RAID 1, 10, 5, and 6 with hot spare, automatic RAID rebuild and hot swap. RAID 0 and JBOD mode also available.

**SSD Support:** For IO intensive applications, the px12-350r can be fitted with solid state drives to boost performance.

**Redundant Power Supply** – Ships with dual hot swappable power supplies for 1+1 redundancy

**Storage Pools:** Storage Pools group drives of like size and RAID protection together to simplify management. Optimize block storage performance with dedicated iSCSI storage pools.

**Network File Protocols Supported:** CIFS/SMB/Rally (Microsoft), NFS (Linux/UNIX), AFP/Bonjour (Apple), FTP, SFTP, TFTP, HTTP, HTTPS, WebDAV, Windows DFS, SNMP.

**iSCSI Target** provides block-level access for the most efficient storage utilization, especially for backup, database and email application performance. It can be used in parallel with file-level storage access via CIFS/NFS. Includes support for SCSI-3 persistent reservations.

**Scheduled Availability** – March 2012.



### High-Performance

- Server Class Hard Drives
- Solid state drives (optional)
- Dual Core Intel Processor
- 4GB memory
- Quad GbE NICs

### Flexible Configurations

- Storage pools with RAID expansion, migration and hot spares
- Advanced RAID levels including Hot Spare

**Server-class Pedigree:** Server class drives; certified for VMware<sup>®</sup> vSphere 5.0, Citrix<sup>®</sup> XenServer<sup>™</sup>, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2. EMC E-Lab tested

**Business-class Features:** Windows Active Directory Trusted Domains, Microsoft Cluster Server and Hyper-V Live Migration support

### Advanced Networking Capabilities:

- NIC bonding for failover and load balancing including 802.3ad link aggregation.
- Jumbo frame support for 4000 and 9000 byte payloads.
- VLAN Tagging capability to IEEE 802.1Q standard.
- iSCSI persistent reservations for clustered Microsoft environments.

### Data Replication / Device to Device Data Copy Jobs:

- Easily copy files to and from attached USB drives or any network share – including lomega Personal Cloud locations – using the secure rsync or CIFS protocol.
- Define your Copy Job to copy/synchronize files to and from connected drives and/or any other shared storage on your network.
- Schedule jobs to run on a predetermined schedule.

**Application Manager:** Third party applications can be installed using the embedded application manager.



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**Data Organization and Access:** Windows DFS organizes folders and files on a network, such that they appear to be all in one directory tree on a single Iomega StorCenter system, even if the folders reside on many devices in many different locations. WebDAV (Web-based Distributed Authoring and Versioning) enables viewing, adding, or deleting files on a StorCenter from the web, via HTTP or HTTPS for added security.

### Power Savings:

- Automatic hard drive spin-down assure the most efficient (minimal) power consumption.
- **Scheduled Power:** Automatically power on or turn off your Iomega StorCenter at a pre-selected time schedule.
- **Wake-On-LAN:** Powers on your Iomega StorCenter when a "magic-packet" wake-up signal is sent over the network. (Wake-On-LAN magic packet application not included)

**Print Server:** Intelligent print sharing capability for up to 3 USB printers connected to the StorCenter px12-350r.

**Uninterruptible Power Supply (UPS) Support:** Enables unattended system shutdown via the USB port without data loss in the case of power failure.

**Simple Management** using the web UI – either local or remote.

**Configuration Backup and Restore:** allows you to back up and restore system configuration information. Backing up a configuration saves various system properties, including users, groups, device identification, and Share names and permissions.

**System Status:** Consolidated resource on space utilization, device information, and status. In addition, you can manage controls such as device restart from here.

**SMART Hard Drive Monitor:** Continually monitors and reports on the health of all drives in the Iomega StorCenter system.

**Reporting:** Email alerts and Event Logging provide up-to-the-minute updates on the status of your device even when you are away from your computer. SNMP agent monitoring helps administrators centrally manage the StorCenter px12-350r.

**Iomega® Personal Cloud:** Iomega Personal Cloud is a patent-pending, web-based computing architecture that connects your Iomega StorCenter™ Network Storage Array devices to other individuals and/or devices via the Internet

**Software Compatibility:** Compatible with today's most common backup software, web browsers, media devices and computers.

**Warranty:** 3 year limited warranty (with product registration)

## Benefits

### Virtualization

- Iomega StorCenter devices are certified for Citrix® XenServer™ 5.6, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2, VMware® vSphere 5.0 which makes them the most cost-effective solution for server virtualization.

### Video Surveillance Camera:

- Built in support for up to 12 UPnP (universal plug and play) network cameras by Axis®, Bosch, and Panasonic to capture and store video without the need of a dedicated PC. IP cameras from other manufacturers can record to a Share, but are not automatically discovered. Video is encoded as MPEG-4. Support for high-definition(720p) and configurable resolution settings.
- Embedded Axis Video Hosting System solution (AVHS) for local to hosted cloud video storage and management.
- Combines StorCenter's smart storage with leading video management systems SoleraTec®, MindTree® or EMC® Lifeline Native App for an integrated all-in-one solution

### Powerful Backup Functionality

- Backup *all* the computers on your network simply by downloading and installing the available client backup software. Also compatible with today's most common backup software applications.
- **Symantec Backup:** Iomega StorCenter network storage products are identified as compatible disk targets for Backup Exec software.
- **Iomega Personal Cloud Backup:** Synchronize data between personal cloud member systems and the px12-350r.
- **Public Cloud Backup:** Use one of the integrated 3<sup>rd</sup> party cloud-based storage services such as Amazon S3 or MozyConnect™ to replicate data from your px12-350r to your public cloud account.
- **Cloud Disaster Recovery:** Utilize two px12-350r devices in different locations and the Iomega Personal Cloud function to create your own disaster recovery scheme.
- **EMC Atmos Cloud Connector:** The Atmos Connector software lets a user backup and share data using Iomega devices as the source and Atmos cloud technology as the target. Enabled by Iomega's integrated copyjob utility, customers can set up cloud folders and configure jobs to automatically copy data to any Atmos cloud.
- **Deduplicating Backup with EMC Avamar –** With Avamar support on the px12-350r, users have the industry's first storage product that natively supports EMC's industry-leading Avamar sub-file deduplication for remote office/branch office (ROBO) backup.
- **Apple® Time Machine™ Backup:** Compatible backup target

### Total Data Protection:

- **Native Security Support** with robust username and password authorized access. Create additional users and secure their content with password protection.
- **Encrypted Volume:** Allows you to create an encrypted volume with an assigned password; thus securing the data on the encrypted volume.
- **User Quotas:** Easily manage capacity by setting maximum limits per user.
- **RSA® BSAFE®** technology protects installs and upgrades.
- **Data Protection Software:** Iomega's QuikProtect™ backup software is available for download.

## Specifications

- 2U form factor, 12 slots for 3.5 inch SATA Hard Disk Drives



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- Intel Core2 Duo E8400 @ 3GHz CPU
- 4GB DDR2 Memory
- Four (4) 10/100/1000 Mbps Ethernet ports (RJ 45 connector)
- 4 x 3.5" Hot swap SATA-II Server Class hard disk drives

Reliability MTBF	1,200,000 hours
Latency/seek time	4.17 msec
Rotational Vibration Sensor	Yes
Spindle Speed	7200 rpm

- **RAID 0, 1, 10, 5, 5+hot spare, and 6 protection on a per-Storage Pool basis.** (Note: all disks within a single RAID/storage pool should be the same capacity, speed, and manufacturer. Mixing different types of drives may result in unpredictable behavior)
- **Power Consumption**
  - Max: 200W
  - Min: 110W (drives spun down)
- **iSCSI: Supports** both file and block storage pools, 256 hosts maximum with the following parameters;
  - Block storage pools; 32 LUNS maximum per pool. 128 LUNs maximum per device.
  - File storage pools; 256 LUNs Maximum per pool. 256 LUNs maximum per device.
- Three USB 2.0 ports; One front, two rear
- LAN standards: IEEE 802.3, IEEE 802.3u
- AC Voltage 100-240 VAC, 50-60 Hz
- Acoustic noise – 56 dBA maximum
- Temperature, Humidity and Altitude

	Operating	Non-Operating
Ambient Temp	10° to 35° C	-40° to 60° C
Temp Gradient	12 ° C per hour	n/a
Humidity (non-condensing)	8% to 85% R.H.	5% to 95% R.H.
Max Wet Bulb	26.6°C	29.4 °C
Altitude	to 7500 ft.	to 40,000 ft.

- User interface localized for English, French, Italian, German, Spanish, Brazilian Portuguese, Russian, Traditional Chinese, Simplified Chinese, Korean, Japanese, Arabic, Hebrew, Turkish, Swedish, and Polish

### Certifications

The Iomega® StorCenter™ px12-350r Network Storage Array has received the following certifications:

- VMware vSphere™ 5.0, iSCSI
- Windows® Server 2003 and Windows Server 2008, and 2008 R2 including Microsoft® Cluster Server and Hyper-V Live Migration.

### Weight and Dimensions

Unit Information	Master Carton Information
25.98" x 16.93" x 3.46"	38.125" x 23.625" x 9.0"
660 mm x 430 mm x 88 mm	968 mm x 600 mm x 229 mm
74.21 lbs / 33.66 kg (12 drives included)	91.21 lbs / 41.37 kg (12 drives included)

All dimensions LxWxH and are approximations

- XenServer™, 5.6 (w/ MPIO), iSCSI & NFS

### Contents

- Iomega® StorCenter™ px12-350r Rackmount NAS Server
- Sliding rail kit for standard 19" rack
- Ethernet cable
- Power cables (support for worldwide distribution – cable for: USA, UK, Japan, Europe & Australia)
- Printed Quick Start Guide
- Solutions CD with system administration software and user manual

### System Requirements

- Available 10/100/1000 Mbps network Ethernet port (required).
- Internet Explorer 7, Firefox® 3.x, Safari 3 or later browser.
- CD or DVD drive to install software.
- Personal cloud and remote access specific requirements:
  - Internet connection
  - Universal Plug and Play (UPnP™) compatible router, or administrative rights to port forward.
  - Recommended minimum sustained connection speeds for a good Personal Cloud experience.
    - Download: 2.5 Mbit/s
    - Upload: 500Kbit/s
  - Personal Cloud is not compatible with Active Directory
  - Personal Cloud is not compatible with XP 64 bit

#### PC Users:

- Microsoft® Windows® XP / Vista / 7 (all versions - exclusive of XP 64 bit for Personal Cloud)

#### Mac® Users:

- Mac OS X 10.5 – 10.7

#### Linux® Users

- Redhat Enterprise Linux 4/5 Desktop/Workstation, Ubuntu 7.10 – 10.10, Fedora 7/8, Fedora Core 5/6, OpenSUSE 10.3- 11.3, Debian 4

### Ordering Information

Capacity	Configuration	Model Name	SKU	UPC Code
24TB	12 x 2TB HDD	StorCenter px12-350r Network Storage, Server Class Series, 24TB	36049	742709360497
36TB	12 x 3TB HDD	StorCenter px12-350r Network Storage, Server Class Series, 36TB	36050	742709360503
Accessories				
Spare HDD, 2TB		Single Spare/Accessory HDD, Hot-Swappable, 2TB Server Class	35961	742709359613
Spare HDD, 3TB		Single Spare/Accessory HDD, Hot-Swappable, 3TB Server Class	35962	742709359620



## Iomega® StorCenter™ px12-350r Network Storage Array, Server Class Series, 24TB, 36TB

Accessory SSD, 128GB	Single Spare/Accessory SSD, Hot-Swappable, 128GB	35666	742709356667
Accessory SSD, 256GB	Single Spare/Accessory SSD, Hot-Swappable, 256GB	35861	742709358616
Spare Power Supply	Spare/Accessory Power Supply, Hot-Swappable	34713	742709347139
Spare Fan	Spare/Accessory Fan, Hot-Swappable	34714	742709347146
Enhanced Service Plan px12 – 3 years, 24x7 phone support, NBD onsite		36005	742709360053
Enhanced Service Plan px12 – 5 years, 24x7 phone support, NBD onsite		36006	742709360060
Premium Service Plan px12 – 3 years, 24x7 phone support, 4-hr onsite, 2TB Server Class spares kit		36009	742709360091
Premium Service Plan px12 – 3 years, 24x7 phone support, 4-hr onsite, 3TB Server Class spares kit		36010	742709360107
Premium Service Plan px12 – 5 years, 24x7 phone support, 4-hr onsite, 2TB Server Class spares kit		36012	742709360121
Premium Service Plan px12 – 5 years, 24x7 phone support, 4-hr onsite, 3TB Server Class spares kit		36013	742709360138
MindTree® SecureMind Surveillance Manager for StorCenter ix/px series, License for 2 cameras		35922	742709359224
MindTree® SecureMind Surveillance Manager for StorCenter ix/px series, License for 4 cameras		35923	742709359231
MindTree® SecureMind Surveillance Manager for StorCenter ix4/px series only, License for 8 cameras		35924	742709359248
MindTree® SecureMind Surveillance Manager for StorCenter px series only, License for 16 cameras		35925	742709359255
MindTree® SecureMind Surveillance Manager for StorCenter px rackmounts only, License for 32 cameras		35926	742709359262
MindTree® SecureMind Surveillance Manager for StorCenter px12 rackmounts only, License for 48 cameras		35927	742709359279

### Additional Product Images



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