

*Fully optimized for the applications that power your business*



Infotrend's EonNAS Pro Series offers tower NAS solutions designed to help SMBs and SOHO users optimize file sharing, IP SAN applications and data backup. Enterprise-level features that can be easily accessed and configured through an intuitive user interface, such as data deduplication, snapshot and remote replication, deliver high efficiency, excellent reliability and simple management.

## Why EonNAS Pro

- **Eliminate storage waste caused by duplicated data**

In office environments, large amounts of storage capacity are consumed by duplicated data. To help you more efficiently utilize capacity, EonNAS Pro comes with enterprise-level **data deduplication** technology. The block-based deduplication on EonNAS Pro helps you achieve **storage savings of up to 90%**. In other words, 10TB of data in your old NAS device can now be stored in 1TB of storage space on EonNAS Pro.

- **Data availability no longer compromised due to time and storage space limitations**

Granular recovery points are extremely important. The finer the granularity, the better you're able to keep data intact when accidents happen. EonNAS Pro protects **shared folders and iSCSI volumes** with **snapshot** technology. Multiple recovery points can be created at minimized time intervals, space requirements and management effort. In the event of data corruption or accidental deletions, you can **restore data in an instant**.

- **No-data-loss disaster recovery in an instant**

To mitigate a disaster's impact on business continuity, data loss and downtime have to be minimized. The built-in **pool mirror** function on EonNAS Pro helps you perform **real-time data replication** between two different systems. When the primary system goes down, the standby system, which features exactly the same data, can seamlessly take over services at minimized downtime.

- **Detect and repair data affected by silent data corruption**

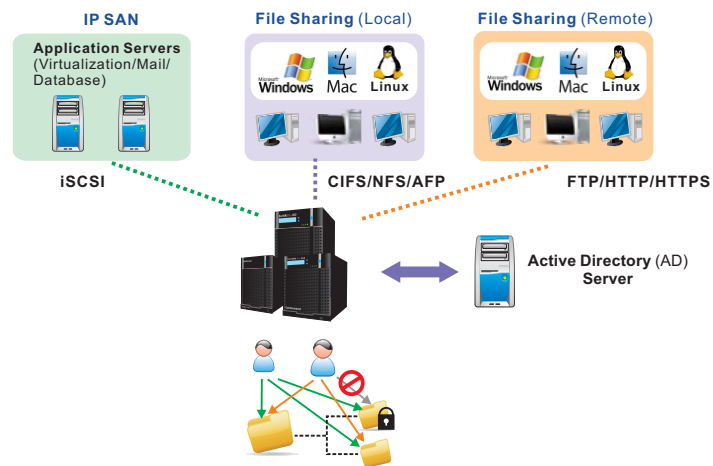
Scientific experiments have shown that in 1TB of data, 2 to 3 files can be "silently" corrupted by errors not detected by common file systems. This poses a significant threat to business applications, in particular when disk space grows. The **ZFS file system** embedded in EonNAS Pro, featuring a hierarchical checksum mechanism, **effectively detects data affected by silent data corruption phenomena and repairs affected data with self-healing features**, ensuring end-to-end data integrity.

## Overview

### Advanced File Sharing and IP SAN Support

With comprehensive network protocol support on EonNAS Pro, files can be easily shared among local and remote workstations featuring **Windows, MAC or Linux** platforms. **Access control for folders and subfolders** allows you to easily meet different user requirements in the office. For consolidated management, you can also choose to import account information from **Windows Active Directory (AD)** to EonNAS Pro.

The built-in iSCSI target support on EonNAS Pro enables you to deploy **IP SAN** and serve applications such as mail servers, databases and virtualization. All EonNAS Pro models are compatible with **VMware, Hyper-V and Citrix** virtualization platforms. With **CHAP authentication**, iSCSI data can be kept secure from unauthorized initiators. Capacity utilization is further enhanced by **thin provisioning** technology. By dynamically allocating capacity to applications on an as-needed basis, EonNAS Pro eliminates pre-allocated yet unused data volumes and simplifies storage resource management. In addition, EonNAS Pro supports **MPIO** and **MC/S** to help users achieve **data path failover, load balancing, and enhanced performance**.



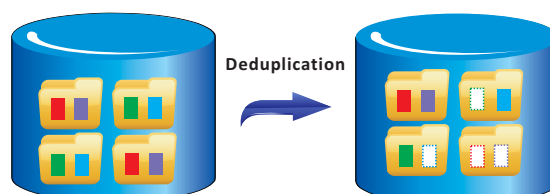
### Comprehensive Backup Options

With EonNAS Pro, users can backup data in various ways. EonNAS Pro comes with **free licenses for FarStone TotalRecovery Pro** backup software. You can leverage this solution, or other **compatible third-party software**, to backup PC and server data. For Mac users, EonNAS Pro supports **Apple Time Machine**. Data backup to or from external disk drives can be achieved via **USB or eSATA** connections. You can also configure USB-based data transfer for **one-touch-copy**, enabling you to complete a data copy with a single button press when an external drive is connected via the USB port at the front of the EonNAS Pro chassis.



### Optimized Storage Capacity Utilization

EonNAS Pro ensures you get the most out of your available storage capacity. EonNAS Pro comes with **inline, block-based data deduplication**, a feature often seen only in enterprise storage solutions. Duplication calculations are performed as each new data block enters deduplication-enabled volumes. When the system sees that an identical block is already present in the volume, the new block will be discarded and only a pointer will be created for reference to the existing block. By removing duplicate data blocks, the technology offers storage space savings of around **90% in backup applications, 70% in virtualization environments and 40% for common office files**.



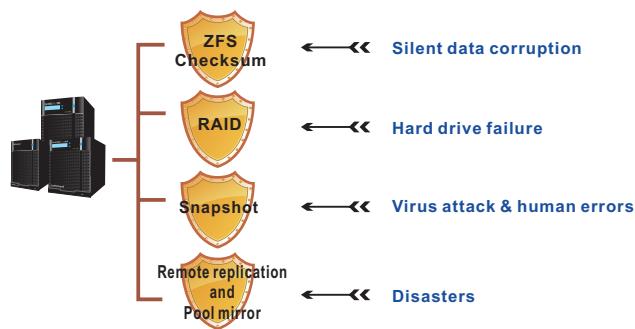
## Robust Data Protection

Core business assets are protected with robust, enterprise-class features. EonNAS Pro features **RAID protection**, which ensures data stays intact even during simultaneous failures of up to two disk drives. When a drive failure occurs, a pre-assigned **hot spare** will be automatically leveraged to rebuild the original RAID configuration. In addition, disk drives are **hot-swappable**, meaning they can be replaced without disrupting your applications on the EonNAS Pro system. In rare cases of system failure, you can quickly restore services simply by removing the drives on the old system and putting them into a replacement system. All your data and settings can be recovered following initial set-up.

The embedded **ZFS file system** ensures end-to-end data integrity through a **hierarchical checksum mechanism**. When a data block is created, a checksum of this block is stored in its parent block pointer. Whenever a block is accessed, its checksum is calculated and compared with the stored checksum value for integrity. This unique mechanism allows EonNAS Pro to effectively **detect data corruption phenomena** that go undetected in other file systems, and **automatically repair affected data** with ZFS self-healing features.

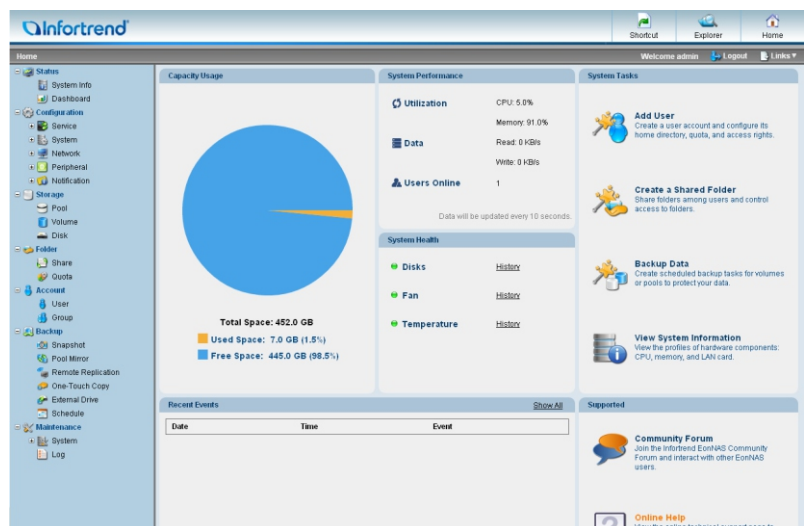
The **snapshot** feature helps you deploy multiple recovery points for iSCSI volumes or shared folders at minimized time intervals and space requirements. In the event of human errors or virus attacks, you can **quickly restore data** with the snapshot copies. EonNAS Pro will **automatically remove snapshot images** when the number of snapshots or their retention period exceeds pre-set thresholds.

**Remote replication** offers scheduled data replication to another EonNAS Pro system or third-party device via the **rsync protocol**. In addition, the **pool mirror** function supports **real-time replication** that keeps data in two different EonNAS Pro systems synced at all times, ensuring that a standby system can seamlessly take over operations when the primary system goes down.



## User-friendly System Management and Monitoring




System management for the EonNAS Pro is extremely easy. Within **less than 15 minutes** you can complete the process from **power-on to initial set-up**. A user-friendly, web-based UI helps you manage your system intuitively. You can easily access all frequently-used features via **shortcuts** and quickly complete required configurations with **step-by-step wizards**. EonNAS Pro also supports a dashboard feature to help you monitor **real-time system status**. EonNAS Pro notifies you of critical system events in a number of ways, such as **LEDs, system buzzers, email notifications and SNMP traps**.



# Technical Specifications

## Hardware

Model	EonNAS Pro 200	EonNAS Pro 500	EonNAS Pro 800
			
CPU	Intel Dual-Core 1.8GHz		
RAM	4GB DDR3		
Networking Ports	Two (2) Gigabit LAN		
Internal Hard Disks	2 x 3.5" SATAII/SATAIII	5 x 3.5" SATAII/SATAIII	8 x 3.5" SATAII/SATAIII
Max. Internal Capacity	6TB	15TB	24TB
USB Ports	5 (1x front, 4 x rear)		
eSATA Ports	1		
LCD Screen	No	Yes	Yes
Dimensions	Tower: 195(H) x 110(W) x 245(D) mm	Tower: 220(H) x 175(W) x 245(D) mm	Tower: 305(H) x 175(W) x 245(D) mm
Weight	<ul style="list-style-type: none"> <li>• 3.05kg / 6.72lb (without HDD)</li> <li>• 4.15kg / 9.15lb (with HDD)</li> </ul>	<ul style="list-style-type: none"> <li>• 5.00kg / 11.02lb (without HDD)</li> <li>• 9.00kg / 19.84lb (with HDD)</li> </ul>	<ul style="list-style-type: none"> <li>• 5.95kg / 13.12lb (without HDD)</li> <li>• 12.34kg / 27.21lb (with HDD)</li> </ul>
Power	<ul style="list-style-type: none"> <li>• External 60W power adapter</li> <li>• AC voltage: 100 – 240V, 1.8A</li> <li>• Frequency: 50-60 Hz</li> </ul>	<ul style="list-style-type: none"> <li>• Internal 250W power supply</li> <li>• AC voltage: 100-240V ~/3.5A with PFC(auto-switching)</li> <li>• Frequency: 47-63 Hz</li> </ul>	<ul style="list-style-type: none"> <li>• Internal 250W power supply</li> <li>• AC voltage: 100-240V ~/3.5A with PFC(auto-switching)</li> <li>• Frequency: 47-63 Hz</li> </ul>
Fan	1 x SmartFan (6cm, 12V DC)	1 x SmartFan (9.2cm, 12V DC)	2 x SmartFan (8.0cm, 12V DC)
Service and Support	<ul style="list-style-type: none"> <li>• 3-year limited hardware warranty</li> <li>• Free online support</li> </ul>		

Model	EonNAS Pro 850	EonNAS Pro 850-1	EonNAS Pro 850-2
			
CPU	Intel Dual-Core 3.3GHz		
RAM	4GB or 8GB DDR3		
Networking Ports	Two (2) Gigabit LAN	Six (6) Gigabit LAN	Two (2) Gigabit LAN + Two (2) 10 Gigabit LAN
Internal Hard Disks	8 x 3.5" SATAII/SATAIII		
Max. Internal Capacity	24TB		
USB Ports	7 (1x front, 6 x rear)		
eSATA Ports	1		
LCD Screen	Yes		
Dimensions	Tower: 310(H) x 175(W) x 380(D) mm		
Weight	<ul style="list-style-type: none"> <li>• 8.9kg / 19.62lb (without HDDs)</li> <li>• 14.32kg / 31.57lb (with HDDs)</li> </ul>		
Power	<ul style="list-style-type: none"> <li>• Internal 430W power supply</li> <li>• AC voltage: 100-240V, 8-4A with PFC (auto-switching)</li> <li>• Frequency: 47-63 Hz</li> </ul>		
Fan	2 x SmartFan (8cm, 12V DC)		
Service and Support	<ul style="list-style-type: none"> <li>• 3-year limited hardware warranty</li> <li>• Free online support</li> </ul>		

## Software

### Protocols

CIFS/SMB, AFP, NFS, FTP, HTTP/HTTPS, iSCSI, SNMP, NDMP, NTP, ICAP

### Client Operating System Support

Windows XP, Vista (32/64-bit), Windows 7 (32/64-bit), Windows Server 2003, Windows Server 2008 R2, Apple Mac OS X, Linux, Red Hat, SuSE

### Server Virtualization

VMware vSphere, Citrix XenServer, Windows Server 2008 Hyper-V

### File System

- Internal: ZFS
- External: FAT32, NTFS

### Networking

- IPv6 support
- Fixed or dynamic IP address
- Dual Gigabit Ethernet with Jumbo Frame
- Port trunking/NIC teaming/Link aggregation (IEEE 802.3ad)
- DHCP client
- MPIO, MC/S support

### Security

- HTTPS connection
- Encrypted remote replication (rsync with 128-bit SSH)
- CHAP authentication for iSCSI volumes

### RAID and Volume Management

- RAID0/1/5/5+Hot spare/6/6+Hot spare/10/50/60
  - EonNAS Pro 200 only supports RAID 0/1
  - RAID 50/60 supported on EonNAS Pro 800 and 850
- Online and automatic RAID capacity expansion
- Deduplication
  - Inline, block-level
- Compression
- Thin provisioning (iSCSI volumes only)
- SPC-3 Persistent Reservation (iSCSI volumes only)
- ICAP-based anti-virus support

### Power Management

- Wake on LAN
- Network UPS with SNMP management

### Access Right Management

- User account management
- Group management
- Folder management
  - Folder and subfolder access control
- Folder quota
- Comprehensive access control action items
  - All Controls, Read, Read and Run, Write, Modify, List
- Support for Windows AD authentication
  - Domain users login via CIFS/ SMB, AFP, FTP, file explorer

### System Management

- Web-based GUI
- HTTP/HTTPS connections
- Email alerts

- SNMP traps
- System status monitoring
- Exportable event logs
- System settings backup and restore
- LCD quick initialization
  - Only on the EonNAS Pro 500/800/850
- Disk roaming
- Time synchronization with the NTP server

### Data Protection

- ZFS end-to-end data integrity
  - Detects and automatically repairs data affected by silent data corruption
- Snapshot
  - Unlimited number
  - For both shared folders and iSCSI volumes
  - Scheduling at intervals as short as 10 minutes
  - Automatic snapshot copy pruning based on user-configured policy
- Remote replication
  - Rsync with 128-bit SSH encryption
- Pool mirror
  - Remote data mirroring
  - Real-time or scheduled
  - IPsec encryption
- ICAP-based anti-virus support

### Browser Support

Internet Explorer 7 & 8, Firefox 3

### File Server

- Protocols: CIFS/SMB, AFP, NFS, FTP, HTTP/HTTPS
- Client operating system: Windows, Mac OS, Linux
- File/folder management by web browser

### FTP Server

- Max. concurrent connection control
- Max. failed log-in attempt control

### Backup Server

- Apple Time Machine support
- Windows Backup and Recovery support
- Bundled free licenses for FarStone Total Recovery Pro 7
  - EonNAS Pro 200: 2 licenses per system
  - EonNAS Pro 500: 5 licenses per system
  - EonNAS Pro 800: 8 licenses per system
  - EonNAS Pro 850: 8 licenses per system
- Backup to external storage devices via USB or eSATA connection
- USB one-touch-copy (Import/Export)
- Remote replication
  - Rsync with 128-bit SSH encryption
- 3rd-party backup software support