

# FREENAS® MINI STORAGE DEVICES



## MINI BUT MIGHTY STORAGE

The FreeNAS Mini is a compact yet powerful Network Attached Storage (NAS) system that allows you to bring enterprise-class data protection and storage capabilities to the home or office. Despite its small stature, the FreeNAS Mini is serious storage for those that are serious about keeping their data safe.

### File Protection and Sharing

Running the world's number one Open Source storage OS, FreeNAS, the FreeNAS Minis come with all the features you demand. FreeNAS uses the copy-on-write ZFS file system with unlimited snapshots and checksums that ensures against bit-rot and data loss. Supporting Windows, macOS, Linux, FreeBSD clients, major hypervisors, and even object storage, users have a near limitless number of ways to share and protect their data.

### Cloud and Remote backup

Sync, archive, or backup data to or from your cloud service of choice. FreeNAS supports all major cloud-based storage providers, such as Amazon, Azure, Google Cloud, BackBlaze, and Dropbox. Alternatively, FreeNAS systems can replicate data with one another or even archive with a TrueNAS system for larger deployments.

### Plugins, Jails and VMs

Choose from a suite of free Plugins that extend the functionality of your FreeNAS Mini and fill a variety of needs from shared media hosting to private cloud management. Plugins like Plex Media Server, NextCloud, Crashplan, and ZoneMinder help stream media, share files, automate extensive backup plans, and even allow control over IP cameras for surveillance.

### Whisper quiet design

Chassis are designed for ultra-quiet functionality to fit in any environment, whether its an office space, data center, or library. Regardless of your data, the FreeNAS Mini series saves it.

### Small Footprint, High Performance

Choose four or eight drives for up to 80 TB of raw storage capacity. Enjoy lag-free streaming of Full-HD content to multiple editors with Gigabit and 10 GbE connectivity.

Coupled with enterprise-class features such as Error Correcting Code (ECC) memory, Intelligent Platform Management Interface (IPMI) remote management, and efficient 80-PLUS power supplies, the FreeNAS Mini Series offers a lot while maintaining a small form factor.



1-855-GREP-4-IX (US) | 1-408-943-4100 (Non-US)  
[www.iXsystems.com/freenas-mini](http://www.iXsystems.com/freenas-mini) or purchase on Amazon.



FEATURES	FREENAS MINI E	FREENAS MINI	FREENAS MINI XL	FREENAS MINI XL+
Chassis	4 Bay Enclosure - Super Quiet Design	4 Bay Enclosure - Super Quiet Design	8 Bay Enclosure - Super Quiet Design	8+1 Bay Enclosure - Super Quiet Design
Hard Drive Bays*	4 x SATA 3.5" Hot-Swappable Drive Bays 2 x SATA 2.5" Internal SSD Bays		8 x SATA 3.5" Hot-Swappable Drive Bays 2 x SATA 2.5" Internal SSD Bays	8 x SATA 3.5" Hot-Swappable Drive Bays 1 x SATA 2.5" Hot-Swappable SSD Bay 1x SATA 2.5" Internal SSD Bay
Maximum Capacity	Up to 40 TB depending on RAID layout		Up to 80 TB depending on RAID layout	
CPU	Dual-core C3338 Intel CPU	Octa-core C2750 Intel CPU	Octa-core C2750 Intel CPU	Octa-core C3758 Intel CPU
Memory	8 GB DDR4 with ECC	16 GB DDR3 with ECC	32 GB DDR3 with ECC	32 GB DDR4 with ECC
RAID	OpenZFS - RAIDZ1 (RAID 5), RAIDZ2 (RAID 6), Multi-Disk Mirror (RAID 10), and RAID0 (stripe)			
Disk Management	Hot-Swappable Drives, Bad Block Scan + HDD S.M.A.R.T ISO Mounting Support, Hardware-Accelerated Disk Encryption			
Network	Standard: 4 x 1 Gigabit Ethernet LAN ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management)	Standard: 2 x 1 Gigabit Ethernet Ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management) Optional: Dual-Port 10Gb upgrade via PCIe Card	Standard: 2 x 1 Gigabit Ethernet Ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management) Optional: Dual-Port 10Gb upgrade via PCIe Card	Standard: 2 x RJ45 10GBaseT Ethernet LAN ports Dedicated RJ45 IPMI Port (Remote Hardware Management)
USB Ports	2 x USB 2.0 Ports (Front) 1 x USB 3.0 Port (Rear)	2 x USB 2.0 Ports (Front) 1 x USB 2.0 Port (Rear)	2 x USB 2.0 Ports (Front) 1 x USB 2.0 Port (Rear)	1 x USB 3.0 Port (Front) 1 x USB 2.0 Port (Front) 2 x USB 2.0 Ports (Rear)
Read/Write Cache	(Optional) Boost performance by adding a dedicated, high-performance read cache (L2ARC) or by adding a dedicated, high-performance write cache (ZIL/SLOG)			
PCIe Expansion	N/A	1 x PCI Express 2.0 x8 slot (Low Profile)	1 x PCI Express 2.0 x8 slot	1 x PCI Express 3.0 x4 (Open-Ended)
Power Supply	100V to 240V AC, 50/60 HZ, Single Phase			
Power Consumption* (Maximum)	Diskless: 16.5W, With drives: 56.5W	Diskless: 33W, With drives: 73W	Diskless: 39W, With drives & 10GbE:106W	Diskless: 34W, With drives & 10GbE: 101W
Power Management	Remote Power-On/Off (IPMI), UPS Signal Response and Alerts			
User Control Interface	Web Browser and Remote Hardware Management (IPMI)			
Dimension (WxDxH)	8.25" x 11.2" x 9.5" / 210 x 284 x 241mm		8.4" x 11" x 15.1" / 213 x 279 x 384mm	
Weight (no drives)	10.8lb / 4.9Kg	10.8lb / 4.9Kg	23.15lb / 10.5Kg	23.15lb / 10.5Kg
Limited Warranty	1 Year Standard 3 year Option Available			
Package Contents	FreeNAS Mini, Power Cord, Quick Start Guide, 2 Case Door Keys, 4 Removable Disk Trays, bag of HDD screws, 7 ft copper cable	FreeNAS Mini, Power Cord, Quick Start Guide, 2 Case Door Keys, 4 Removable Disk Trays, bag of HDD screws, 7 ft copper cable	FreeNAS Mini XL, Power Cord, Quick Start Guide, 2 Case Door Keys, 8 Removable Disk Trays, bag of HDD screws, 7 ft copper cable	FreeNAS Mini XL, Power Cord, Quick Start Guide, 2 Case Door Keys, 8 Removable Disk Trays, bag of HDD screws, 7 ft copper cable

\*To maintain low system temperatures and noise, hard drives designed for NAS systems are recommended (e.g. - WD Red, WD Red Pro, Seagate IronWolf, etc.)

## SOFTWARE FEATURES & SERVICES

PROTOCOLS	DIRECTORY SERVICES	NETWORKING
<ul style="list-style-type: none"> <li>• AFP</li> <li>• CIFSv1, SMBv2, SMBv3</li> <li>• FTP and SFTP</li> <li>• iSCSI</li> <li>• NFS v3, v4</li> <li>• S3-Compatible Object API</li> <li>• WebDAV</li> </ul>	<ul style="list-style-type: none"> <li>• Active Directory (AD)</li> <li>• Lightweight Directory Access Protocol (LDAP)</li> <li>• Network Information Service (NIS)</li> <li>• Open Directory</li> </ul>	<ul style="list-style-type: none"> <li>• NIC Failover</li> <li>• Port Trunking/NIC Teaming and IEEE 802.3ad Link Aggregation</li> <li>• VLAN Support</li> <li>• DHCP client, DHCP Server</li> </ul>
FILESYSTEM	REMOTE ADMINISTRATION	BACKUP
<ul style="list-style-type: none"> <li>• Intelligent in-line Compression</li> <li>• Snapshots and Clones</li> <li>• Thin Provisioning</li> <li>• Bit-rot Detection and Correction</li> <li>• Online Capacity Expansion</li> <li>• Virtual Block Devices</li> <li>• ZFS Stripe (RAID 0), ZFS Mirror (RAID 1, RAID 1+0), RAIDZ1 (RAID 5), RAIDZ2 (RAID 6)</li> </ul>	<ul style="list-style-type: none"> <li>• HTTP/HTTPS Web Interface</li> <li>• Email Alert Configuration</li> <li>• Remote Syslog Client</li> <li>• Backup &amp; Restore System Settings and State</li> <li>• Restore to Factory Default</li> <li>• Resource Monitor</li> <li>• Log and Event Collection</li> <li>• Automatic Online Updates</li> <li>• SNMP Server/MIB</li> <li>• IPMI Remote Console and Power Management</li> <li>• REST API</li> </ul>	<ul style="list-style-type: none"> <li>• OpenZFS Remote Replication</li> <li>• Rsync</li> <li>• Microsoft Windows Backup</li> <li>• Apple Time Machine</li> <li>• TrueOS® Life Preserver</li> <li>• Cloud sync with Amazon AWS, Google Cloud, Microsoft Azure, Backblaze, Dropbox, and more</li> </ul>