![TrueNAS logo]

TrueNAS® Minis

Mini But Mighty Storage

The TrueNAS 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 TrueNAS Mini is serious storage for those that are serious about keeping their data safe.

Small Footprint, High Performance

Choose up to eight drives for up to 159 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 TrueNAS Mini Series offers a lot while maintaining a small form factor.

Commercial Grade Hardware

Chassis are designed for ultra-quiet functionality to fit in any environment, whether its an office space, data center, or library. The TrueNAS Mini comes standard with Western Digital disk drives (CMR), the preferred drives of TrueNAS. Western Digital disk drives are well-known among the iXsystems Community Forum as a favorite for TrueNAS builds because of their legendary quality and stability. Regardless of your data, the TrueNAS Mini series saves it.

[Buy from amazon.com]

> "*I'm just very happy with the architecture, flexibility, price point, and overall performance of the product.*"
>
> Jeff Luinstra
> *CEO, Firstlink Technology*

Mini Features

File Protection & Sharing:

Running the world's number one Open Source storage OS, TrueNAS CORE, the TrueNAS Minis come with all the features you demand. TrueNAS uses the copy-on-write (COW) 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 & Remote Backup:

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

Plugins, Jails, and VMs:

Choose from a suite of free Plugins that extend the functionality of your TrueNAS 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.

TrueNAS Mini Models

	TrueNAS Mini E	TrueNAS Mini X	TrueNAS Mini X+	TrueNAS Mini XL+
Chassis	4 Bay Enclosure – Super Quiet Design	5+2 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	5 x SATA 3.5" Hot-Swappable Drive 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 Raw Capacity	Up to 72 TB	Up to 90 TB	Up to 105 TB	Up to 159 TB
CPU	Dual-core C3338 Intel CPU	Quad-core C3558 Intel CPU	Octa-core C3758 Intel CPU	Octa-core C3758 Intel CPU
Memory	8 GB DDR4 with ECC (Upgradeable to 16 GB)	16 GB DDR4 with ECC (Upgradeable to 32GB)	32 GB DDR4 with ECC (Upgradeable to 64GB)	32 GB DDR4 with ECC (Upgradeable to 64GB)
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 × 1 Gigabit Ethernet LAN ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management)	Standard: 4 × 1 Gigabit Ethernet LAN ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management)	Standard: 2 x RJ45 10GBaseT Ethernet LAN ports Dedicated RJ45 IPMI Port (Remote Hardware Management) 2 x SFP+ 10G Add On Card (Optional)	Standard: 2 x RJ45 10GBaseT Ethernet LAN ports Dedicated RJ45 IPMI Port (Remote Hardware Management) 2 x SFP+ 10G Add On Card (Optional)
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 3.0 Port (Rear)	1 x USB 3.0 Port (Front) 1 x USB 2.0 Port (Front) 2 x USB 2.0 Ports (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 3.0 × 4	1 x PCI Express 3.0 × 4
Power Supply	100V to 240V AC, 50/60 HZ, Single Phase			
Power Consumption* (Maximum)	Diskless: 16.5W, With drives: 56.5W	Diskless: 24W With drives: 84W	Diskless: 40W With drives & 10G Add-on-card: 111W	Diskless: 40W, With drives & 10G Add-on-card: 130W
Power Management	Remote Power-On/Off (IPMI), UPS Signal Response and Alerts			
User Control Interface	Web Browser and Remote Hardware Management (IPMI)			
Dimensions (WxDxH)	8.25" x 11.2" x 9.5" (210 × 284 × 241 mm)	8.25" x 10.5" x 9.5" (210 × 267 × 241 mm)		8.4" × 11" × 15.1" (213 × 279 × 384 mm)
Weight (no drives)	10.8lbs / 4.9Kg	13lbs / 5.9Kg		23.15lbs / 10.5Kg
Limited Warranty	1 Year Standard - 3 Year Option Available			
Package Contents	TrueNAS Mini E, 5-15P to C13 Power Cord, Quick Start Guide, 2 x Case Door Keys, 4 Removable Disk Trays, bag of HDD screws, 2 × 7 ft copper cable	TrueNAS Mini X, 5-15P to C13 Power Cord, Quick Start Guide, 2 x Case Door Keys, 7 Removable Disk Trays, bag of HDD screws, 2 × 7 ft copper cable	TrueNAS Mini X+, 5-15P to C13 Power Cord, Quick Start Guide, 2 x Case Door Keys, 7 Removable Disk Trays, bag of HDD screws, 2 × 7 ft copper cable	TrueNAS Mini XL+, 5-15P to C13 Power Cord, Quick Start Guide, 2 x Case Door Keys, 9 Removable Disk Trays, bag of HDD screws, 2 × 7 ft copper cable

*To maintain low system temperatures, noise, and drive failure rates, use drives designed for NAS systems (e.g. - WD Red™ Plus) that operate at less than 7W.

TrueNAS CORE Specifications

File-Based Protocols

- AFP
- CIFSv1, SMBv2, SMBv3
- FTP and SFTP
- iSCSI
- NFS v3, v4
- S3-Compatible Object API
- WebDAV

Directory Services

- Active Directory (AD)
- Lightweight Directory Access Protocol (LDAP)
- Network Information Services (NIS)
- Open Directory

Networking

- NIC Failover
- Port Trunking/NIC Teaming and IEEE 802.3ad Link Aggregation
- VLAN Support
- DHCP client, DHCP Server

Filesystem

- Intelligent in-line Compression
- Snapshots and Clones
- Thin Provisioning
- Bit Rot Detection and Correction
- Online Capacity Expansion
- Virtual Block Devices
- ZFS Stripe (RAID 0), ZFS Mirror (RAID 1, RAID 1+0), RAID Z1 (RAID 5), RAID Z2 (RAID 6)

Remote Administration

- HTTP/HTTPS Web Interface
- Email Alert Configuration
- Remote Syslog Client
- Backup & Restore System Settings and State
- Restore to Factory Default
- Resource Monitor
- Log and Event Collection
- Automatic Online Updates
- SNMP Server/MIB
- IPMI Remote Console and Power Management
- REST API

Backup

- OpenZFS Remote Replication
- Rsync
- Microsoft Windows Backup
- Apple Time Machine
- TrueOS Life Preserver
- Cloud sync with Amazon AWS, Google Cloud, Microsoft Azure, Backblaze, Dropbox, and more