



# 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 twelve drives for over 200 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.



## 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 use iX-Storj Globally Distributed Storage.



### Jails, Apps, and VMs:

Choose from a variety of apps and services that extend the functionality of your TrueNAS Mini and fill a variety of needs from shared media hosting to private cloud management.

“I’m just very happy with the architecture, flexibility, price point, and overall performance of the product.”

Jeff Luinstra  
CEO, Firstlink Technology

## TrueNAS Mini Models



### TrueNAS Mini X

### TrueNAS Mini X+

### TrueNAS Mini R

<b>Chassis</b>	5+2 Bay Enclosure - Super Quiet Design		12 Bay Enclosure - Super Quiet Design
<b>Drive Bays*</b>	5 x SATA 3.5" Hot-Swappable Drive Bays		12 x SATA 3.5" Hot-Swappable Drive Bays
<b>Maximum Raw Capacity</b>	Up to 110 TB		Up to 264 TB
<b>CPU</b>	Quad-core C3558 Intel® CPU	Octa-core C3758 Intel® CPU	Octa-core C3758 Intel® CPU
<b>Memory</b>	16 GB DDR4 with ECC (Upgradeable to 32GB)	32 GB DDR4 with ECC (Upgradeable to 64GB)	32 GB DDR4 with ECC (Upgradeable to 64GB)
<b>RAID</b>	OpenZFS – RAIDZ1 (RAID 5), RAIDZ2 (RAID 6), Multi-Disk Mirror (RAID 10), and RAID0 (stripe)		
<b>Disk Management</b>	Hot-Swappable Drives, Bad Block Scan + HDD S.M.A.R.T ISO Mounting Support, Hardware-Accelerated Disk Encryption		
<b>Network</b>	Standard: 4 x 1 Gigabit Ethernet LAN ports (10/100/1000) Dedicated RJ45 IPMI Port (Remote Hardware Management)	Standard: 2 x RJ45 1/10GBaseT Ethernet LAN ports Dedicated RJ45 IPMI Port (Remote Hardware Management) 2 x SFP+ 10G Add On Card (Optional)	Standard: 2 x RJ45 1/10GBaseT Ethernet LAN ports Dedicated RJ45 IPMI Port (Remote Hardware Management) 2 x SFP+ 10G Add On Card (Optional)
<b>Video</b>	VGA Connector and iKVM HTML5 via IPMI		
<b>USB Ports</b>	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 (Rear) 2 x USB 2.0 Ports (Rear)
<b>Read/Write Cache</b>	(Optional) Boost performance by adding a dedicated, high-performance read cache (L2ARC) or by adding a dedicated, high-performance write cache (ZIL/SLOG)		
<b>PCIe Expansion</b>	N/A	1 x PCI Express 3.0 x 4	1 x PCI Express 3.0 x 4
<b>Power</b>	100V to 240V AC, 50/60 HZ, Single Phase, C14 Power Socket, NEMA 5-15P to C13 Power Cord		
<b>Power Consumption* (Maximum)</b>	Diskless: 24W With drives: 84W	Diskless: 40W With drives & 10G Add-on-card: 111W	Diskless: 63W, With drives & 10G Add-on-card: 167W
<b>Power Management</b>	Remote Power-On/Off (IPMI), UPS Signal Response and Alerts		
<b>User Control Interface</b>	Web Browser and Remote Hardware Management (IPMI)		
<b>Dimensions (WxDxH)</b>	8.25" x 10.5" x 9.5" (210 x 267 x 241 mm)		17.2" x 21" x 3.5" (437 x 533 x 89 mm)
<b>Weight (no drives)</b>	13lbs / 5.9Kg		18.7lbs / 8.5Kg
<b>Limited Warranty</b>	1-Year Warranty Included. Optional 3-Year Warranty purchasable. Software Warranty requires registration at <a href="http://portal.ixsystems.com">portal.ixsystems.com</a>		
<b>Accessories</b>	Basic Setup Guide, 2 x Case Door Keys, bag of HDD screws, 2 x 7 ft cat6 copper cable		Basic Setup Guide, 2 x Bezel Keys, bag of HDD screws, 2 x 7 ft cat6 copper cable, Bezel, 4 x Rubber Feet, Short Rail Kit (19" - 26.6" rackmount depth), Long Rail Kit (Optional, 26.5" - 36.4" rackmount depth)

\*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® Specifications

<b>Storage Protocols</b> <ul style="list-style-type: none"> <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>	<b>Directory Services</b> <ul style="list-style-type: none"> <li>• Active Directory (AD)</li> <li>• Lightweight Directory Access Protocol (LDAP)</li> <li>• Network Information Services (NIS)</li> <li>• Kerberos</li> </ul>	<b>Networking</b> <ul style="list-style-type: none"> <li>• NIC Teaming and Failover with 802.3ad Link Aggregation</li> <li>• VLAN and Port Trunking Support</li> <li>• DHCP, DNS</li> <li>• IPv4, IPv6, VPNs</li> </ul>
<b>Filesystem</b> <ul style="list-style-type: none"> <li>• Intelligent in-line Compression</li> <li>• Snapshots and Clones</li> <li>• Thin Provisioning</li> <li>• Bit Rot Correction</li> <li>• Data Encryption</li> <li>• Online Capacity Expansion</li> <li>• Virtual Block Devices</li> <li>• ZFS Stripe, ZFS Mirror, and Single, Double or Triple-Parity</li> <li>• In-line Deduplication</li> </ul>	<b>Remote Administration</b> <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</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>• REST API</li> </ul>	<b>Backup</b> <ul style="list-style-type: none"> <li>• OpenZFS Remote Replication</li> <li>• Rsync to Linux/Windows</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> <li>• Globally Distributed Storage (iX-Storj)</li> </ul>
<b>Virtual Machines</b> <ul style="list-style-type: none"> <li>• KVM Hypervisor (SCALE)</li> <li>• Linux, Windows, FreeBSD</li> <li>• Virtual Bridging</li> <li>• PCIe, USB Pass-through</li> <li>• CPU/RAM Assignment</li> </ul>	<b>TrueCommand Management</b> <ul style="list-style-type: none"> <li>• Single Pane of Glass</li> <li>• Multi-system Monitoring and Reporting</li> <li>• Fault Managements</li> <li>• Long-term Statistics</li> <li>• Cloud or On-Prem deployment</li> </ul>	<b>Apps (SCALE)</b> <ul style="list-style-type: none"> <li>• Linux and Docker Containers</li> <li>• Kubernetes Helm Charts</li> <li>• Official and Community Catalogs</li> <li>• GPU Sharing</li> <li>• VPN, Load Balancing Apps</li> </ul>

