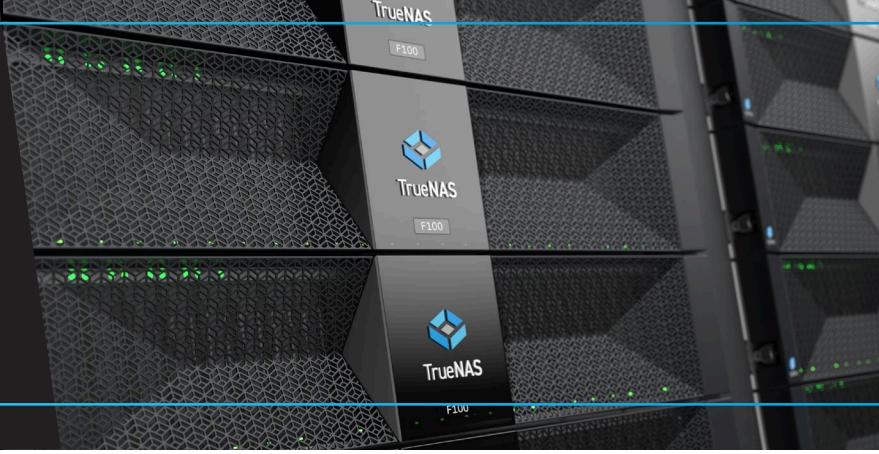


TrueNAS F-Series

High Performance NVMe Storage

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Features



Extreme Performance & High Availability

Utilizes NVMe flash technology, ZFS, and up to six 100 Gb/s network ports per controller for ultra-fast data movement. Dual Node High Availability (HA) ensures uninterrupted operations with automatic failover.



Advanced Data Protection

Self-healing ZFS detects and repairs in-flight data corruption, prevents bit rot, and safeguards data integrity at all times.



Intelligent Storage Efficiency

Offers built-in compression, snapshots, clones, and thin provisioning. TrueNAS Adaptive Compression (TAC) optimizes performance while maximizing capacity without wasting system resources.



Built-in Snapshots & Replication

Includes configurable retention, restoration, and replication without extra licensing fees, protecting data from ransomware, accidental deletion, and ensuring efficient disaster recovery.

Unmatched Performance

The TrueNAS F-Series is engineered for maximum productivity, combining industry-leading speed, density, reliability, and scalability. Designed for high-performance deployments, it seamlessly integrates open-source economics with enterprise-grade hardware and support. Whether handling media workflows, containerized applications, or other demanding workloads, the F-Series delivers the power and flexibility needed for modern IT environments.

With NVMe flash performance, a compact 2U form factor, and a unified storage approach, the TrueNAS F-Series offers high-speed data access and simplified management through an intuitive web-based interface. These systems ensure seamless scalability and enterprise-grade reliability with award winning support, making them an ideal solution for organizations that require both performance and ease of use.

Benefits



Unmatched Reliability

Enterprise-grade hardware and redundancy features minimize downtime, making it ideal for mission-critical workloads.



Cost-Effective Scalability

Delivers enterprise-level storage optimization, including snapshots and replication, without additional licensing fees.



Flexible Backup & Disaster Recovery

Data can be securely replicated across local, remote, or cloud environments for seamless business continuity.

The TrueNAS F60 and F100 models deliver all-flash, dual-controller storage with up to 10 PB capacity and support for multiple high-speed network interfaces—up to 6× 100 GbE. Built with energy efficient, high-performance NVMe Flash, the F-Series supports demanding workloads like media production, virtualization, and high-speed file sharing. Intelligent Storage Optimization enhances efficiency with data reduction ratios exceeding 2.5x, while High Availability (HA) architecture ensures uninterrupted storage services.

 **TrueNAS**
OPEN ENTERPRISE STORAGE



TrueNAS F-Series Models

F-Series Platform

	TrueNAS F60	TrueNAS F100
Available Storage Media		
• Enterprise Class NVMe Gen4 SSD (Dual Port) <ul style="list-style-type: none"> ◦ Capacities from 7.6 TB to 60 TB ◦ SED, FIPS 140-3 options 		
Power Management		
• Dual redundant, hot-swappable, high-efficiency (80+ Platinum) power supplies <ul style="list-style-type: none"> ◦ High-line 200-240V 50/60Hz input power ◦ IPMI Remote power on/off 		
Disk Management		
• Global hot spares <ul style="list-style-type: none"> ◦ Hot-swappable drives ◦ Corrupted block scan ◦ Drive activity/alert LEDs ◦ Local and remote (KMIP) key management ◦ Enclosure monitoring and alerts 		
Physical Parameters		
• 2U: 24x 2.5" NVMe SSD drive bays (front-loading, hot swap) <ul style="list-style-type: none"> ◦ Dimensions (l x w x h): <ul style="list-style-type: none"> ◦ 27" x 19" x 3.5" 686 x 483 x 89 mm ◦ Rackmount rails 27" - 37" ◦ Operating temperature: 5°C to 35°C ◦ Non-operating temperature: 5°C to 45°C ◦ Humidity: 20% to 80% non-condensing ◦ Empty weight: 43 lbs 19.5 kg ◦ Fully-Loaded weight: 56.2 lbs 25.4kg ◦ RoHS 6/6 compliant, CE, FCC Class A, UL, TÜV, BSMI, KC, VCC 		

*Maximum effective capacity assumes typical data reduction through compression and deduplication.



TrueNAS Enterprise Specifications

File-Based Protocols	Block-Based Protocols	Object Protocols	Directory Services
• SMB v1/2/3 <ul style="list-style-type: none"> ◦ NFSv3, v4 	• AFP, FTP, WebDAV <ul style="list-style-type: none"> ◦ iSCSI ◦ OpenStack Cinder 	• S3-compliant using MinIO	• Active Directory (AD) <ul style="list-style-type: none"> ◦ FreeIPA
Networking	Virtualization	File System	High Availability
• Port Trunking/NIC Teaming <ul style="list-style-type: none"> ◦ IEEE 802.3ad link aggregation ◦ IEEE 802.1q VLAN support 	• Supports VMware and VAAI, ESXi snapshot integration, VM Warn/Stun, vCenter <ul style="list-style-type: none"> ◦ Supports KVM, Citrix XenServer, Microsoft Hyper-V, and other common hypervisors ◦ Microsoft VSS, ODX, and CSV ◦ Integrated Apps 	• OpenZFS Self-healing file system <ul style="list-style-type: none"> ◦ Immutable Snapshots and clones ◦ Thin and thick provisioning ◦ Online capacity expansion ◦ Virtual block devices ◦ In-line compression and deduplication ◦ ZFS Stripe, Mirror, RAID-Z1/Z2/Z3, dRAID 	• Available dual controller support <ul style="list-style-type: none"> ◦ Automated rapid failover without data loss ◦ Virtual IP address migration ◦ Online software updates
Backup	Supported Public Cloud Providers	TrueSecure Security	Remote Administration
• Snapshot-based OpenZFS local/remote replication <ul style="list-style-type: none"> ◦ Rsync and cloudsync ◦ Truecloud backup to Storj ◦ Supports Asigra, Acronis, Veeam, Nakivo, NetBackup, and more 	• iX-Stor <ul style="list-style-type: none"> ◦ Amazon S3 ◦ BackBlaze B2 Cloud ◦ Google Cloud ◦ Microsoft Azure 	• FIPS 140 for Data-at-rest and data-in-flight <ul style="list-style-type: none"> ◦ Restricted Admins (Security, Storage, Monitor) ◦ Auditing of SMB & Admin events (e.g. logins) ◦ Encrypted Drives and Datasets, KMIP ◦ NIST 800-209, GPOS STIG 	• Alert notifications via email, AWS-SNS, Hipchat, InfluxDB, Slack, Mattermost, OpsGenie, PagerDuty, and VictorOps <ul style="list-style-type: none"> ◦ SSH, Syslog, Netdata ◦ REST APIs and SNMP ◦ Automated backup of system configuration and state ◦ Graphical reporting, enclosure management ◦ Signed updates with the ability to rollback ◦ Out-of-Band Management ◦ TrueCommand Management

