








General Features	FreeNAS Mini	FreeNAS Certified	TrueNAS X10	TrueNAS X20	TrueNAS M40	TrueNAS M50	TrueNAS Z50 TrueFlash
Target Use Case	SoHo/SMB Storage	General Business Storage	Mission-Critical Enterprise Storage				
Form Factor	Tower Enclosure Mini - 4 Bays Mini XL - 8 Bays	1U, 2U, 4U	2U		4U		3U
RAM per Storage Controller	32 GB or 64 GB (one Storage Controller only)	64 GB - 256 GB (one Storage Controller only)	32 GB	64 GB	128 GB	256 GB-1.5 TB	512 GB (Dual Storage Controllers Only)
High Availability Failover	N/A		Optional (Hot swappable controllers)				Included
Storage Architecture	HDD/Optional Hybrid		Hybrid SSD/HDD				All-Flash
Storage Technology	SATA	SAS/SATA SATA in All-Flash Array	SAS				SAS All-Flash
Expansion Shelves Supported	N/A		2	2	2	12	4
Enclosure Management	N/A		Integrated				
Maximum Data Disks	Mini - 4 Mini XL - 8	26/2.5", 24/3.5"	35	71	144	744	112
Maximum Capacity	Mini - 24 TB Mini XL - 48 TB	336 TB	504 TB	1 PB	2.02 PB	10.4 PB	860 TB
Maximum Usable Capacity*	Mini - 60 TB Mini XL - 120 TB	840 TB	1.26 PB	2.5 PB	5 PB	26 PB	Over 4 PB
Mirrored Boot Device	Optional		N/A		Included		
Ethernet Performance	Up to 10GbE				Up To 40 GbE	Up To 100 GbE	Up To 40 GbE
Fibre Channel Performance	N/A			16 Gbps	16 Gbps	16/32 Gbps	16 Gbps
Fibre Channel Topologies	N/A			FC-SW, FC-P2P, FC-AL**			
Vendor Certified	N/A		Citrix, Veeam		Citrix, Veeam & VMware Certification Submitted		Citrix, Veeam, VMware
OpenZFS Enterprise File System	Included						
Snapshotting, Replication and Rollback	Unlimited						
Unified File and Block Sharing	Included						
Flash Technology	SAS2/SATA SSD		SAS3 SSD		SAS 3 SSD W:NVDIMM	R:NVMe W:NVDIMM	All-Flash
Flash Read/Write Cache	128 GB	Up To 1.6 TB	Up To 400 GB	Up To 800 GB	Up To 2.4 TB	Up To 4 TB	All-Flash Storage
Protocols	SAN (Fiber channel (except FreeNAS Mini, FreeNAS Certified, and TrueNAS X10), iSCSI), NAS (AFP, SMB, NFS), Object (S3)						

* Compression rates vary by application. 2.5x compression factor for Hybrid Arrays and 15x for All-Flash Arrays is reflected in the effective capacity.

** FC-AL is blocked by default but can be enabled with a tunable.



							
Support and Warranty	FreeNAS Mini	FreeNAS Certified	TrueNAS X10	TrueNAS X20	TrueNAS M40	TrueNAS M50	⚡ TrueNAS Z50 TrueFlash
Software Support	N/A		Up To 24/7				
Hardware Warranty	1 Year	3 Years	Up To 5 Years				
On-site Hardware Support	N/A	Up To 24/7					
Deployment Services and Tuning	N/A		Included				
Zero-Downtime Upgrades	N/A		Optional with HA				Included
Integrated Support Portal	N/A		Included				
IPMI Remote Management	Included						
Web, SSH and SNMP Remote Management	Included						



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