iXsystems TrueNAS Product Family

Platforms	FreeNAS Mini	FreeNAS Certified	TrueNAS X10	TrueNAS X20	TrueNAS M40	TrueNAS M50
Typical User	SoHo Small/Med Office	SoHo Small/Med Office	Business Essential/Mission-Critical Enterprise			
Form Factor	Mini Tower	1U, 2U, 4U	2U	2U	4U	4U
High Availability	No	No	Yes, Hot Swappable Storage Controllers (1 or 2)			
Storage Architecture	HDD + Optional R/W Cache	HDD + Optional R/W Cache	HDD + R/W Cache or SSD only			
Storage Technology	SATA	SATA/SAS	SAS	SAS	SAS	SAS, NVMe
Read Cache Technology	SATA SSD	SATA SSD	SAS3 SSD	SAS3 SSD	SAS3 SSD	NVMe
Read Cache Size	120GB	800GB	400GB	800GB	2.4TB	12.5TB NVMe
Write Cache Technology	SATA SSD	SATA SSD	SAS3 SSD	SAS3 SSD	NVDIMM	NVDIMM
vCPU per Controller	8	12-64	12	12	20	40
RAM per Controller	16-32GB	32-256GB	32GB	64GB	128GB	256GB-1.5TB
Expansion Shelves	0	By Request	2	2	2	12
Max Physical Storage	64TB	240TB	500TB	1PB	2PB	10PB
Max Effective Storage*	120TB	600TB	1.2PB	2.5PB	5PB	25PB
Max Ethernet Speed	10GbE	2x40GbE	2x10GbE	4x10GbE	2x40GbE	4x100GbE
Fibre Channel (option)	Not Available	Not Available	8Gb	8Gb	4x16Gb	4x32Gb

Software	FreeNAS	TrueNAS				
Enterprise File System	OpenZFS - File, Block, and Object Services - Open Source					
Data Management	Snapshots, Replication, Rollback, Clones, Encryption, Mirroring, RAIDZ1/Z2/Z3					
Data Reduction	Thin Provisioning, Compression, Clones, Deduplication					
Access Protocols	NFSv3, NFSv4, SMB, AFP, iSCSI, HTTP/WebDAV, FTP, S3					
Management Protocols	IPMI, WebUI, REST API, SSH, SNMP, LDAP, Kerberos, Active Directory					
Application Integration	Application Plugins		vCenter plugin, OpenStack Cinder driver			
Software Compatibility	Clients: Unix, Linux, Windows, FreeBSD, MacOS		+ Enterprise Software: VMware, OpenStack, Citrix, Veeam			

Support	FreeNAS	TrueNAS				
Hardware Warranty	1 to 3 Years	3 to 5 Years	Up to 5 Years, Worldwide, Advanced Parts Replacement			
Deployment Services	Self-deployment		Included Deployment and Tuning, Proactive Monitoring option			
Software Support	Community		Worldwide, up to 24x365, Phone or email			
Software Updates	Included		Included-Zero downtime upgrades with HA			

* Compression rates vary by application. 2.5x compression factor for Hybrid Arrays and 5x for All-Flash Arrays assumed.

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