










iXsystems TrueNAS Product Family

Platforms										
	FreeNAS Mini	FreeNAS Certified	TrueNAS X10	TrueNAS X20	TrueNAS M40	TrueNAS M50	TrueNAS Z50			
Typical User	SoHo Small/Med Office			Business Essential/Mission-Critical Enterprise						
Form Factor	Mini Tower	1U, 2U, 4U	2U		4U		3U			
High Availability	No		Yes, Hot Swappable Storage Controllers (1 or 2)				Yes			
Storage Architecture	HDD + Optional R/W Cache		HDD + R/W Cache or SSD only				All-Flash			
Storage Technology	SATA	SATA/SAS	SAS		SAS	SAS, NVMe	SAS-SSD			
Read Cache Technology	SATA SSD		SAS3 SSD			NVMe		All-Flash		
Read Cache Size	120GB	800GB	400GB	800GB	2.4TB	15TB NVMe				
Write Cache Technology	SATA SSD	SATA SSD	SAS3 SSD		NVDIMM					
vCPU per Controller	8	12-64	12	12	20	40	32			
RAM per Controller	16-32GB	32-256GB	32GB	64GB	128GB	256GB-1.5TB	512GB			
Expansion Shelves	0	By Request	2	2	2	12	4			
Max Physical Storage	64TB	240TB	500TB	1PB	2PB	10PB	860TB			
Max Effective Storage*	120TB	600TB	1.2PB	2.5PB	5PB	25PB	4PB			
Max Ethernet Speed	10GbE	2x40GbE	2x10GbE	4x10GbE	2x40GbE	4x100GbE	2x40GbE			
Fibre Channel (option)	Not Available			2x16Gb	4x16Gb	4x32Gb	4x16Gb			
Software										
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										
Hardware Warranty	1 to 3 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.

