









iXsystems TrueNAS Product Family

Platforms								
	FreeNAS Mini		FreeNAS Certified		TrueNAS X10	TrueNAS X20	TrueNAS M40	TrueNAS M50
Typical User	SoHo Small/Med Office			Business Essential/Mission-Critical Enterprise				
Form Factor	Mini Tower		1U, 2U, 4U		2U		4U	
High Availability	No			Yes, Hot Swappable Storage Controllers (1 or 2)				
Storage Architecture	HDD + Optional R/W Cache			HDD + R/W Cache or SSD only				
Storage Technology	SATA		SATA/SAS		SAS		SAS	SAS, NVMe
Read Cache Technology	SATA 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		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				8Gb		4x16Gb	4x32Gb
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		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.

