









## 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	480GB	800 GB	400 GB	800 GB	2.4 TB	12.5 TB NVMe		
Write Cache Technology	SATA SSD	SATA SSD	SAS3 SSD		NVDIMM			
vCPU per Controller	2-8	12-64	12	12	20	40		
RAM per Controller	8-64 GB	32-256 GB	32 GB	64 GB	128 GB	256 GB-1.5 TB		
Expansion Shelves	0	By Request	2	2	2	12		
Max Physical Storage	80 TB	240 TB	500 TB	1 PB	2 PB	10 PB		
Max Effective Storage*	200 TB	600 TB	1.2 PB	2.5 PB	5 PB	25 PB		
Max Ethernet Speed	2x10 GbE	2x40 GbE	2x10 GbE	4x10 GbE	2x40 GbE	4x100 GbE		
Fibre Channel (option)	Not Available			8 Gb	4x16 Gb	4x32 Gb		
<b>Software</b>								
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				
<b>Support</b>								
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.

