









# TrueNAS® Open Storage Product Line

PLATFORMS									
	TrueNAS Minis	R-Series	TrueNAS X10	TrueNAS X20	TrueNAS M30	TrueNAS M40	TrueNAS M50	TrueNAS M60	
Target Use Case	SoHO / Medium Office		Business Essential / Mission-Critical Enterprise Storage						
Form Factor	Mini Tower	1 U, 2 U, 4 U	2 U		4 U				
Modular & Tool-Less Hardware Platform	No		Yes						
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		SAS		SAS	SAS	SAS, NVMe		
Write Cache Technology	SATA SSD	SATA SSD	SAS3 SSD		SAS	NVDIMM			
Read Cache Size	480 GB	800 GB	400 GB	800 GB	800 GB	2.4 TB	12.8 TB NVMe		
Cores per Controller	2 - 8	6 - 16	6	6	8	10	20	32	
vCPU per Controller	2 - 8	12-32	12	12	8	20	40	64	
RAM per Controller	8 - 64 GB	32 - 192 GB	32 GB	64 GB	64	128 GB	256 GB-384 GB	768 GB	
Expansion Shelves	0	2	2	2	0	2	8	12	
Max Physical Storage	159 TB	3 PB	500 TB	1 PB	432 TB	2 PB	9 PB	20 PB	
Max Effective Storage*	318 TB	7 PB	1.2 PB	2.5 PB	1 PB	5 PB	22.5 PB	50 PB	
Max Ethernet Speed	2x 10 GbE	2x 100 GbE	2x 10 GbE	4x 10 GbE	2x 40 GbE	2x 40 GbE	2x 100 GbE	4x 100 GbE	
Fibre Channel (option)	Not Available	4x 16 Gbps	2x 8 Gbps		2x 16 Gb	4x16 Gbps	4x 16 Gbps or 2x 32 Gbps	4x 32 Gbps	
<b>SOFTWARE</b>	 TrueNAS CORE		 TrueNAS Enterprise						
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/Thick 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						
Solution Integration	Unix, Linux, Windows, FreeBSD, MacOS		+ VMware, OpenStack, Citrix, Veeam						
<b>SUPPORT</b>	 TrueNAS CORE		 TrueNAS Enterprise						
Hardware Warranty	1 Year	3 Years	Up to 5 Years, Worldwide, Advanced/On-Site Parts Replacement						
Deployment Services	Self-Deployment		Included - Deployment, Performance Tuning, Proactive Monitoring						
Software Support	Email		Worldwide, up to 24x365, Phone or Email						
Software Updates	Included		Included - Zero downtime upgrades with HA						
Support Portal	Community		iXsystems Professional Support Included						

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