

TrueNAS® Open Storage Product Line

PLATFORMS								
	Mini Series	R-Series	X10	X20	M30	M40	M50	M60
Overview	Low Power, Footprint, and Noise Profile	High-Density Performance and Capacity, Value-Oriented	Low Power and High-Availability		High Performance, Large Capacity, and High-Availability			
High Availability	No	With Clustering	Dual Controller		Dual Controller or Clustering			
Target Use Case	Small Business, Edge, Home	Multi Purpose	Small and Medium Enterprise, Edge		Mission Critical Enterprise			
Form Factor	Mini Tower or Rackmount	Multi Purpose	2U - 6U Rackmount		4U - 52U Rackmount			
Chassis Depth	Mini R 21", 531mm	26-39", 660-990mm	21", 531mm		27", 686mm			
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, 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 GB	128 GB	256 GB - 384 GB	768 GB
Expansion Shelves	0	2	2	2	0	2	8	12
Max Physical Storage	159 TB	Up to 5 PB	500 TB	1 PB	500 TB	3 PB	10 PB	25 PB
Max Effective Storage*	318 TB	Up to 10 PB	1 PB	2 PB	1 PB	6 PB	20 PB	50 PB
Bandwidth	1 to 20 Gbit/s	1 to 200 Gbit/s	1 to 40 Gbit/s		1 to 80 Gbit/s	1 to 200 Gbit/s		
Fibre Channel (option)	Not Available	4× 16 Gbps	2× 8 Gbps		2× 16 Gb	4× 16 Gbps	4× 16 Gbps or 2× 32 Gbps	4× 32 Gbps
Software	CORE or SCALE	Enterprise 13.0 or 22.12	Enterprise 13.0		Enterprise 13.0 or 22.12			
Enterprise File System	OpenZFS - File, Block, and Object Services - Open Source							
Data Management	Unlimited Snapshots, Pool checkpoints, Space-efficient Clones, Replication: Remote, Local, Auto-resume, to Linux ZFS							
Data Reduction	Thin/Thick Provisioning, In-line Adaptive Compression, Clones, Deduplication, Trim							
Access Protocols	SMB 2/3, NFSv3/v4, rsync, SMB Multi-channel, NFSv4, iSCSI, VAAI, S3, Distributed Minio, Cloud Sync, HTTP/WebDAV, FTP							
Administration	IPMI, WebUI, REST API, SSH, SNMP, Syslog, LDAP, Kerberos, Active Directory, WebSockets API							
Manage Multiple Systems	With TrueCommand							
SUPPORT	Mini Series	R-Series	X10	X20	M30	M40	M50	M60
Hardware Warranty	1 Year	3 Years	Up to 5 Years, Worldwide, Advanced/On-Site Parts Replacement					
Software Support	Email	Worldwide, up to 24×365, Phone or Email						
Support Portal	Community Forums	iXsystems Support Enterprise Support Portal						
Deployment Services	Self-Deployment		Included Deployment, Performance Tuning, Proactive Monitoring Option					
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.