

TrueNAS® R-Series

Powerful Single Controller Storage



TrueNAS is the world's most popular Open Source storage operating system. Built on OpenZFS, TrueNAS provides unified File, Block and Object services with all the essential data management features including data protection, snapshots, replication, scrubbing, data reduction, and security. TrueNAS is suitable for file serving, media streaming, backup, archive, virtualization, and databases.

With the **TrueNAS R-Series**, iXsystems integrates TrueNAS with value-oriented, single-controller hardware that has configurable performance. The Open Source economics of TrueNAS provide the best value storage in the industry and the R-Series has excellent price-performance with systems ranging from 10 GbE to 100 GbE with up to 16 cores and 1024 GB of RAM.



ZFS System Optimized for TrueNAS: While TrueNAS works with a wide range of x86 based hardware, there are significant performance and operational benefits from selecting a balanced platform with best-in-class components like cache devices. The R-Series is designed with many price-performance options ranging from 10 GbE to 100 GbE.



Built for Professionals: Building a NAS from the latest components requires research and testing. iXsystems builds each system and can even set up your storage pools. Your TrueNAS R-Series also includes a 3-Year warranty for software and hardware as well as a license for graphical enclosure management.



Rich TrueNAS Feature Set:

- NFS, SMB, AFP (Apple), S3, and iSCSI services
- All flash, all HDD, fusion, and hybrid pools
- Integrated Jails, VMs, Plugins
- M.2 NVMe flash boot drive and flash accelerators
- Hot swap drives with tool-less, front-loading bays
- Redundant, efficient power supplies and fans



Easy to use Management Interfaces:

TrueNAS includes many management tools and interfaces including a modern Web UI, REST APIs, and a powerful CLI. Active Directory, LDAP, and two-factor authentication are also available. TrueCommand provides single-pane-of-glass management for many TrueNAS systems and includes advanced reporting, alerts, analytics, auditing, and RBAC.

"ESG has validated that the TrueNAS platform delivers impressive levels of cost-optimized performance."

Tony Palmer
Senior Validation Analyst, Enterprise Strategy Group



Each TrueNAS R-Series system is custom configured by selecting a chassis, controller, network ports, cache devices, and storage media.



	TrueNAS R20	TrueNAS R30	TrueNAS R50
Height	2U - 10U	1U	4U - 12U
Chassis Depth	26", 660mm	33", 840mm	39", 990mm
Controllers	Single	Single	Single
Drive Bays	12 x 3.5", 2 x 2.5"	16 x NVMe	48 x 3.5", 4 x 2.5" (NVMe)
CPU per Controller	6 - 16 Cores	16 - 64 Cores	6 - 16 Cores
DRAM Per Controller	32 GB - 192 GB	Up to 1024 GB	64 GB - 192 GB
Read & Write Cache	2 x 960 GB SATA SSDs	N/A	4 x 3.2 TB NVMe SSD
Networking	2x 10/25/40/100GbE 2 or 6 x 10GBaseT or SR	2 or 4x 10/25/40/100 GbE 2x 10GBase-T	2x 10/25/40/100 GbE 2 or 6 x 10GBaseT or SR
Fibre Channel (option)	2 x 32 Gb	N/A	2 x 32 Gb
Expansion Shelves	2	0	2
Max Drives Supported	132	16	252
Max Throughput	8 GB/s	20 GB/s	10 GB/s
Storage	Hybrid	All-NVMe	Hybrid
Max Raw Capacity	2.9 PB	240 TB	5 PB
Max Effective Capacity*	6 PB	480 TB	10 PB
Certifications	Veeam Ready		
Pricing Guidance	Starting at \$4,700 with 3 year Bronze Support	Starting at \$6,000 with 3 year Bronze Support	Starting at \$14,000 with 3 year Bronze Support
Guidance of approximately \$35/TB for Hard Drive capacity and approximately \$300/TB for Flash capacity. Prices vary based on configuration.			

* Maximum effective capacity assumes typical data reduction through compression and deduplication.