TrueNAS® R-Series

High Performance, Unified Storage Appliances

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.

Developed and supported by iXsystems, the TrueNAS R-Series is available in three editions: CORE, Enterprise, and SCALE. All TrueNAS systems are fully compatible and allow secure data replication and migration between each other. The TrueNAS Enterprise version is available with Bronze or Silver Enterprise support.

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 192 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.

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

Systems	TrueNAS R10	TrueNAS R20	TrueNAS R40	TrueNAS R50
Rack Space	1 U	2 U	2 U	4 U
Depth, Weight (net with drives)	27", 686mm, 20kg	26", 660mm, 31kg	26", 660mm, 30kg	39", 83kg
Controllers	Single	Single	Single	Single
Drive Bays	16 × 2.5" 7 mm	12 × 3.5", 2 × 2.5"	48 × 2.5", 7 mm	48 × 3.5", 4 × 2.5" (NVME)
CPU per Controller	6 - 10 Cores	6 - 16 Cores	6 - 16 Cores	6 - 16 Cores
DRAM Per Controller	32 GB - 96 GB	32 GB - 192 GB	64 GB - 192 GB	64 GB - 192 GB
Max Ethernet Speed	2× 100 GbE	2× 100 GbE	2× 100 GbE	2× 100 GbE
Fibre Channel (option)	2 × 32 Gb	2 × 32 Gb	2 × 32 Gb	2 × 32 Gb
Power (Max Typ. with 10 Cores)	350W, 250W	800W, 400W	800W, 600W	1300W, 800W
Expansion Shelves Supported	0	2 x ES60	2 x ES24F	2 x ES102
Storage	All-Flash	Hybrid	All-Flash	Hybrid
Max Raw Capacity	120 TB	2 PB	720 TB	5 PB
Max Effective Capacity*	400 TB	4 PB	2 PB	10 PB
Max Read & Write Cache		2 × 1.6 TB SATA SSD		4 × 3.2 TB NVMe SSD
Performance	Varies based on configuration. Contact Us.			
Compliance	CE, FCC Class A, RoHS 6/6 Compliant			
Electrical	100 - 240Vac**, 50-60Hz, IEC-320-C14 & NEMA 5-15P			
Environmentals	Operating temperature: 5oC -35oC, Relative Humidity: 5% - 95% non-condensing at <1,000m			
Pricing Guidance	Starting at $4,000 with 1 year Bronze Support	Starting at $4,700 with 1 year Bronze Support	Starting at $7,000 with 1 year Bronze Support	Starting at $14,000 with 1 year Bronze Support
	Guidance of approximately $50/TB for Hard Drive capacity and approximately $300-350/TB for Flash capacity. *Prices vary based on configuration*.			

* Maximum effective capacity assumes typical data reduction through compression and deduplication.
** ES60 and ES102 expansion shelves require 200-240V 50/60Hz input power