



# TrueNAS® R30

High-Performance NVMe  
Flash Storage Appliance



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 R30 is designed specifically for use with TrueNAS SCALE. SCALE provides improved clustering, better App support, Kubernetes, and a well-proven ZFS implementation that delivers performance and reliability. The TrueNAS R30 is available with Bronze or Silver Enterprise support. Gold support is available for clusters.

With the **TrueNAS R30**, iXsystems integrates TrueNAS with high-performance NVMe Flash, and single-controller hardware. The Open Source economics of TrueNAS provides the best value storage in the industry and the R30 has excellent flash price-performance with configurations ranging from 10 GbE to 100 GbE with up to 64 cores and 1024 GB of RAM. Each R30 system supports up to 240TB and can be clustered for multi-Petabyte all-NVMe storage.

## Open Source Economics

The TrueNAS R30 delivers the economic advantages of Open Source software on an industry-standard x86 platform. The R-Series is specially designed for SCALE for scale-out performance. Low risk and great value!

## Support the TrueNAS Project

The TrueNAS Community is run by a team of dedicated engineers employed by iXsystems. Purchasing a TrueNAS R30 contributes to the ongoing operation, development, and stability of the TrueNAS Project.

## 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 an all-flash NVMe platform with best-in-class components like cache devices. The R-Series is designed with many price-performance options ranging from 1 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 R30 includes a 3-Year warranty for software and hardware and a license for graphical enclosure management.

## Rich TrueNAS Feature Set and More

- NFS, SMB, S3, and iSCSI services
- Integrated VMs (KVM), Containers, VMs, Apps (Kubernetes)
- Scale-out SMB, Gluster and S3
- M.2 NVMe flash boot drive
- 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.



## TrueNAS SCALE Specifications

<b>CPU</b>	<b>Single Socket</b>	3rd Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology 16/32/64 Core
	<b>Total Slots</b>	16 (8-channel per CPU, 16 DIMM per CPU)
<b>Memory</b>	<b>Capacity</b>	Maximum up to 1024GB
	<b>Memory Type</b>	DDR4 3200 MHz RDIMM - 16/32/64GB
	<b>Total PCIe Slots</b>	3+1
<b>Expansion Slots</b>	<b>PCIe Slot Type</b>	1 x PCIe Gen4 ×16, FHHL 1 x PCIe Gen4 ×16, LP HL 1 x PCIe Gen4 ×8 LP HL 1 x OCP3.0 socket (Gen4 ×16)
<b>Disk Controller</b>	<b>Boot Device</b>	2 x M.2 connector (SATA 6Gb/s & PCI-E Gen4 ×4 link) Used for 480GB M.2 NVMe Boot device
<b>Storage Bays</b>	<b>2.5" U.2 NVMe</b>	16 NVMe Bays Total 12 x Hot-swap Storage Device Bays 4 x Internal Storage Device Bays Used for 7.6/ 15.3TB Gen 4 NVMe SSDs
<b>Networking</b>	<b>LAN</b>	1 x Dual Port IntelI350-AM2 Gigabit LAN Controller 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Front I/O Ports</b>		2 x USB 3.2 Gen 1 ports
<b>Rear I/O Ports</b>	<b>Integrated</b>	2 x USB 3.2 Gen 1 ports, 1 x VGA port, 2 x 1GbE LAN ports, 1 x RJ-45 Mgmt LAN port, 1 x COM port
<b>Network Ports</b>	<b>Optional</b>	2 or 4 × 100Gbe (QSFP28) 4 × 10/25Gbe (SFP28)
<b>Switch/LED</b>	<b>Rear Switch/LED</b>	1 x Power switch, 1 x Location switch/LED, 1 x Message LED
	<b>Front Switch/LED</b>	1 x Power switch/LED, 1 x Location switch/LED, 1 x Message LED, 2 x LAN LED
<b>OS Support</b>		TrueNAS SCALE
<b>Management Solution</b>	<b>Software</b>	Control Center
	<b>Remote Management</b>	On-Board ASMB10-iKVM for KVM-over-IP
<b>Dimensions</b>		840 mm x 449 mm x 44 mm (33.07" x 17.68" x 3.47") - 1U
<b>Net Weight (Kg)</b>	<b>Without CPU, DRAM, SSDs</b>	17kg
	<b>With CPU DRAM, SSDs</b>	< 22Kg
	<b>With Packaging</b>	< 28K
<b>Power Supply</b>		1+1 Redundant 800W 80 PLUS Platinum Power Supply Rating: 100-127Vac/200-240Vac, 10A/5A, 50/60Hz Configured to draw under 500W at <25°C
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% ( Non condensing)