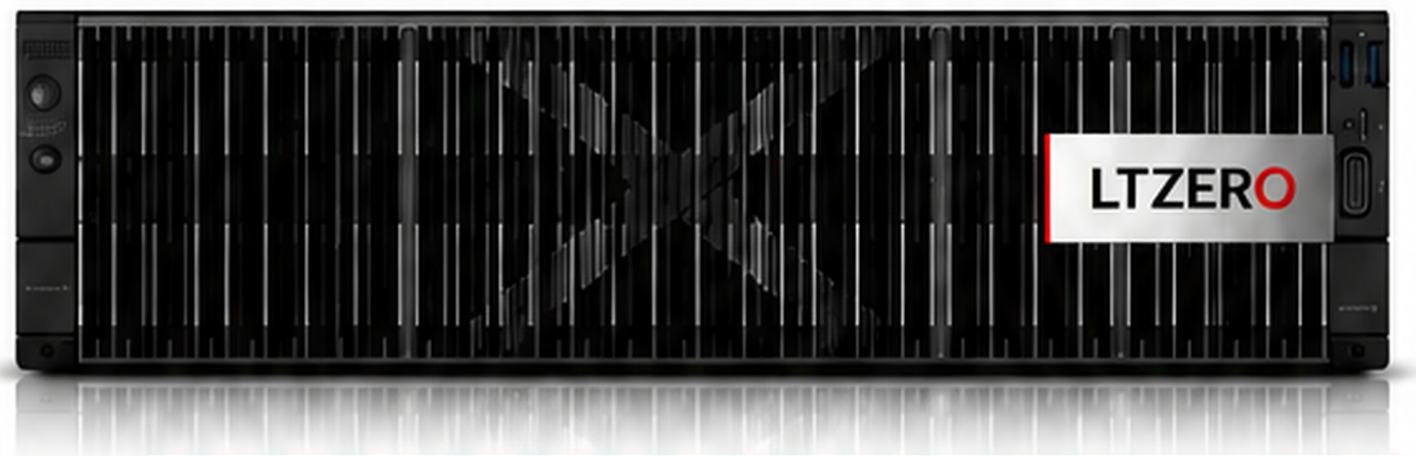
DATASHEET

UNF

LTZERO UNIFIED STORAGE



Performance Where It Matters.
Capacity Where You Need It.

LTZERO UNF is a flexible unified storage platform designed to combine high-performance NVMe storage with scalable, cost-efficient capacity expansion.

Built on a simple scale-up architecture, UNF allows organizations to start with a single storage system and expand capacity as requirements grow—without the complexity of a distributed scale-out cluster.

UNF can be deployed as a single-node standalone system or as a two-node High Availability configuration.

An **Integrated Archive Engine** is included as part of the platform and can be activated whenever archiving is required. Archive functionality is optional, allowing UNF to operate purely as a high-performance storage platform or as part of a complete data lifecycle solution with optional Tape Library integration.

KEY VALUE PROPOSITION

HIGH PERFORMANCE
NVMe storage delivers extreme performance for active and demanding workloads.

SIMPLE SCALE-UP
Expand capacity by adding JBOD enclosures without rebuilding or re-architecting.

FLEXIBLE DEPLOYMENT
Deploy as a single node or two-node High Availability configuration.

PERPETUAL LICENSING
One-time licensing with no recurring subscription or capacity-based fees.

UNIFIED STORAGE
Configure as Block, NAS, or Object Storage.
Create multiple partitions/tenants with dedicated resources as needed.

INTEGRATED ARCHIVE READY
Archive Engine is included and ready to activate.
Optional Tape / IP Tape Library integration.

THE STORAGE FOUNDATION

01 NVMe PERFORMANCE
UNF NODE

The UNF Node provides the high-performance NVMe tier where active and performance-sensitive workloads are stored.

- ✔ NVMe-based storage
- ✔ High throughput
- ✔ Low-latency access
- ✔ Designed for active workloads

02 SCALABLE CAPACITY
JBOD EXPANSION

JBOD provides a cost-efficient capacity tier that expands as storage requirements grow.

- ✔ Online capacity expansion
- ✔ Cost-optimized storage tier
- ✔ Flexible capacity growth
- ✔ Designed for large datasets

UNIFIED STORAGE CAPABILITIES

BLOCK STORAGE
High-performance block storage for applications, databases, VMs, and enterprise workloads.

NAS (FILE) STORAGE
File-level access via NFS/SMB for collaboration, content, and enterprise environments.

OBJECT STORAGE
S3-compatible object storage for backups, archives, data lakes, and cloud-native workloads.

MULTI-TENANCY & PARTITIONING
Create multiple partitions with dedicated capacity, performance, and access controls.
Ideal for service providers, departments, or workload isolation.

WHY LTZERO UNF

PERFORMANCE FIRST
NVMe technology ensures superior performance for critical workloads.

COST-EFFICIENT CAPACITY
JBOD expansion provides massive capacity at a lower cost per TB.

FLEXIBLE & SIMPLE
Scale up on demand without the complexity of distributed architectures.

HIGH AVAILABILITY
Choose single node for simplicity or two-node HA for business continuity.

UNLIMITED ARCHIVING
No archive capacity limitation or additional archive capacity licensing.

OPTIMIZED TCO
One platform for performance, capacity expansion, and optional long-term retention.

ONE STORAGE PLATFORM.
PERFORMANCE FIRST. CAPACITY WHEN YOU NEED IT.

BUILT FOR GROWTH
Start small and scale capacity as your data grows.

BUILT FOR RELIABILITY
Enterprise-grade architecture for data you can trust.

BUILT FOR THE FUTURE
Designed to adapt to evolving workloads and business needs.

www.ltzero.id

DATASHEET

UNF

LTZERO UNIFIED STORAGE

ONE PLATFORM.
MULTIPLE STORAGE SERVICES.
FLEXIBLE BY DESIGN.

LTZERO UNF is a true Unified Storage Platform that delivers Block, NAS, and Object storage in a single system.

Resources can be partitioned and allocated per workload, team, or application—ensuring performance, efficiency, and isolation.

With the Integrated Archive Engine included, UNF can also archive and preserve data for the long term when needed.

UNIFIED STORAGE FLEXIBILITY

One platform. Three storage protocols.
Partition as needed.

BLOCK STORAGE
High performance for databases, applications, VMs, and enterprise workloads.

NAS / FILE STORAGE
Simple, efficient, and secure file sharing for teams, departments, and unstructured data.

OBJECT STORAGE
S3-compatible object storage for backup, data lake, media content, and cloud-native applications.

FLEXIBLE PARTITIONING

Create isolated pools for different workloads, teams, or applications.

PARTITION A
Block Storage
VM
Databases, Applications, VMs, Business Critical

PARTITION B
NAS / File Storage
File Sharing, Home Directories, Departments

PARTITION C
Object Storage
Backup, Archive, Media, Data Lake, Analytics

- Allocate capacity and performance independently
- Isolated and secure multi-tenancy
- Grow or modify on demand
- Optimize resource utilization

INTEGRATED ARCHIVE ENGINE (INCLUDED)

Archive Engine is included and ready to activate.

Archiving is optional—use UNF purely as storage or enable archive capabilities when you need long-term retention.

POLICY-BASED ARCHIVING
Automatically move data to archive based on defined policies.

ARCHIVE VERIFICATION
Validate archived data to ensure integrity and completeness.

SAFE TRUNCATION
After successful archive and verification, data is truncated to reclaim primary storage.

RECLAIM CAPACITY
Free up performance tier capacity for new and active workloads.

LONG-TERM RETENTION
Preserve data for years with Tape Library or IP Tape Library.

OPTIONAL INTEGRATION

TAPE LIBRARY
Integrate with Tape Library for secure, offline long-term data preservation.

OR

IP TAPE LIBRARY
IP-based Tape Library for simplified deployment and operation.

KEY CAPABILITIES AT A GLANCE

UNIFIED BY DESIGN
Block, NAS, and Object in one platform.

FLEXIBLE PARTITIONING
Create dedicated pools and allocate as needed.

PERFORMANCE ON DEMAND
Deliver the right performance for every workload.

SCALE-UP SIMPLICITY
Expand capacity easily with JBOD enclosures.

BUILT-IN ARCHIVE ENGINE
Included and ready to activate anytime.

OPTIONAL TAPE INTEGRATION
Choose Tape Library or IP Tape Library when required.

RELIABLE & SECURE
Data integrity, isolation, and secure long-term retention.

START SMALL
Deploy quickly and start delivering value.

EXPAND CAPACITY
Grow storage online without disruption or downtime.

ADD AVAILABILITY
Enable HA with two-node configuration when needed.

FLEXIBLE FOREVER
Adapt to evolving workloads and business needs.

DATASHEET

UNF

LTZERO UNIFIED STORAGE

MORE THAN STORAGE.
BUILT FOR THE DATA LIFECYCLE.

LTZERO **UNF** is a complete data platform that adapts to today's workload demands and tomorrow's growth.

Run high-performance applications today, scale capacity tomorrow, and preserve your data for the long term—all on one platform.

INTEGRATED ARCHIVE ENGINE (INCLUDED)

Archive Engine is included and ready to activate.
Archiving is optional—use UNF purely as storage or enable archive capabilities when you need long-term retention.



1. **ACTIVE DATA** — Data is stored on UNF for high performance and availability.
2. **ARCHIVE ENGINE** — Policy-based movement to archive with data verification.
3. **TAPE LIBRARY (OPTIONAL)** — Long-term retention using Tape Library or IP Tape Library.
4. **VERIFICATION** — Archive verification ensures data integrity before truncation.
5. **TRUNCATION** — After successful archive, data is truncated to reclaim primary storage.

POLICY-BASED ARCHIVING
Archive data automatically based on defined policies.

ARCHIVE VERIFICATION
Ensure archived data is complete and valid.

SAFE TRUNCATION
Reclaim storage capacity after successful archive.

LONG-TERM RETENTION
Preserve data for years with Tape or IP Tape.

OPTIONAL TAPE INTEGRATION
Integrate with Tape Library or IP Tape Library.

LTZERO UNF VS TRADITIONAL STORAGE & ARCHIVE SOLUTIONS

CAPABILITY	LTZERO UNF	TRADITIONAL STORAGE / ARCHIVE
STORAGE TYPE	Unified Storage: Block, NAS, Object	Separate solutions for Block, File, Object
FLEXIBLE PARTITIONING	Partition capacity and storage type as needed	Limited or not supported
SCALABILITY	Simple scale-up by adding JBOD enclosures	Complex scale-out or controller upgrade
DEPLOYMENT	Single Node or 2-Node HA	Complex HA design and licensing
ARCHIVE ENGINE	**Included and ready to activate**	Additional product / license required
TAPE INTEGRATION	**Optional Tape / IP Tape Library**	Requires separate infrastructure
ARCHIVE CAPACITY LICENSING	**Unlimited – No archive capacity limitation**	Capacity-based archive licensing
LICENSING MODEL	**Perpetual – One-time license**	Subscription or recurring fees
TOTAL COST OF OWNERSHIP	**Lower and predictable long-term cost**	Higher and unpredictable cost
MANAGEMENT	Single platform, simple management	Multiple systems, complex management

IDEAL FOR

- ENTERPRISE FILE STORAGE
- BACKUP REPOSITORY
- CLOUD & HYBRID WORKLOADS
- MEDIA & CONTENT
- AI / ANALYTICS WORKLOADS
- DATA ARCHIVING & COMPLIANCE
- LONG-TERM RETENTION
- DEPARTMENTAL & MULTI-TENANCY

WHY CHOOSE LTZERO UNF

- **ONE PLATFORM, MANY SERVICES** — Block, NAS, and Object Storage in a single platform.
- **FLEXIBLE & FUTURE-PROOF** — Partition and scale your storage the way your business needs.
- **READY FOR THE DATA LIFECYCLE** — Integrated Archive Engine enables optional archiving and long-term retention.
- **SIMPLE TO DEPLOY & MANAGE** — Scale-up architecture with single or two-node HA.
- **UNLIMITED ARCHIVING** — No archive capacity limitation. Preserve your data for as long as you need.
- **OPTIMIZED TCO** — Lower cost, predictable investment, and maximum flexibility.



ONE PLATFORM. COMPLETE VALUE.

START TODAY
Deploy quickly and start delivering performance and value.

SCALE ANYTIME
Expand capacity online without disruption or downtime.

ENABLE ARCHIVE
Activate Archive Engine when long-term retention is needed.

PRESERVE LONGER
Store on Tape or IP Tape for secure, offline preservation.

GROW CONFIDENTLY
A platform that grows with your business and data.

PROTECT & SECURE
Built-in data integrity, isolation, and security by design.

**YOUR DATA.
YOUR CHOICE.
YOUR FUTURE.**

UNF is more than storage. It's your foundation for performance, protection, and long-term value.

UNIFIED TODAY. ARCHIVE TOMORROW. PRESERVE FOREVER.