CoreIP Unified Network Attached Storage- CoreIP UCS 1000RPS_UNAS

The CoreIP UCS 1000RPS_UNAS is a proprietary data storage operating system developed by CoreIP Technology Private Limited an Indian Company under Make in India Flag. It's developed on BIS approved CoreIP rack mountable COTS servers. It is designed to provide high performance, scalable and reliable storage for various types of data and applications. It is simple to operate so full time dedicated IT professional is not required. Lower cost with easy data backup makes it always accessible when you need it.

CoreIP UCS 1000RPS_UNAS–Unified Network Attached Storage

Key features and capabilities:

Hardware – COTS
Commercial Off the Shelf based hardware – UCS 1000RPS_UNAS is designed to run on any COTS hardware. UCS 1000RPS_UNAS is designed to perform well on the custom hardware, tailored with Intel platform and industry-leading peripherals. UNAS aims to deliver supreme performance and reliability for their customers.

GUI Based Manageability –
UNAS is designed with ease of use in mind, making it accessible to IT generalists like Windows & Linux Administrators. By providing a User Friendly Graphical Interface, can easily manage the day-to-day operations of storage management efficiently and effectively, without requiring extensive expertise or training in storage systems.

Support – Business & Technical
Being an Indian Company, offers exceptional support to its Indian customers by being available during local business hours. This allows for a prompt response to any inquiries or issues enhancing the overall customer experience. The local support is a crucial aspect for organizations that depend on their data storage infrastructure for smooth operations.

Unified Storage -
CoreIP UNAS is a next -generation Storage Area Network (SAN) solution specifically designed for small to medium businesses. UNAS features centralized storage, facilitating a unified data access and management paradigm. Web based Graphical user interface enables simplified file management operations such as add, delete and modify with ease.

Small Medium Business –
If there are multiple computers in any small medium business, storage controller is easy to store and access files –just drag and drop.

Performance –
With the implementation of advanced data protection measures , including continuous data backups and granular access controls, the UNAS storage controller provides a secure and reliable storage environment for critical business data. The high-bandwidth interconnect and efficient storage capacity utilization ensure seamless file transfer and collaboration among employees.

Surveillance-
UNAS simplifies video management with advanced storage and security features. Store and manage your surveillance data with ease, including video recording, playback, archiving, and data protection.

Maximize your surveillance efficiency with CoreIP UNAS. Advance Video Management solution offers the storage and security features you need to manage large amount of Video Data. From recording to archiving, data protection and more, select the CoreIP UNAS for a secure and streamlined solution.

Operating System –
CoreIP UNAS uses the FreeBSD operating system, which is known for its security features and stability. FreeBSD provides a secure environment for data storage and helps to protect against common security threats such as malware, hacking and data breaches.

File System –
CoreIP UNAS utilizes the ZFS file system, which provides advanced data protection and recovery features. ZFS performs data integrity checking, takes snapshots, and enables automatic data replication, which helps to prevent data loss, corruption, and unauthorized access. By using ZFS, UNAS can help organizations to ensure the security and reliability of their data storage infrastructure

Broadcast Media –
 CoreIP UNAS is a versatile and flexible solution that can support various media streaming and storage requirements. UNAS proven ability to support high-definition (HD) , 4K and 8K media workflows suggests that it has the necessary performance and capacity to handle large multimedia files for your media related workflows.

The support for clients running Apple, Windows and Linux operating systems means that a wide range of devices can access and use the storage controller for push and pull workflows.

As a playout storage solution, UNAS storage could be a valuable tool for businesses in the broadcast, streaming and video production industries. The ability to store, access and stream multimedia files in real time could help streamline workflows and reduce downtime.

If you have multiple computers in your business of Media, online edit- shared storage controller is easy to store and access files- just drag and drop without any lag.

Archival –

CoreIP UNAS provides a robust and secure solution for data archival, helping you to store and preserve your critical data for long term use. Features like snapshot thin-provisioning, Remote synchronization (Async), compression, and deduplication, UNAS offers advanced data protection and storage management capabilities to meet all your archival needs. Keep your data safe & secure with UNAS reliable and efficient data archival solution.

UNAS provides a secure , scalable solution for data archiving. With JBOD (just bunch of disk) expansion and the ability to scale to petabyte-level storage, you can keep up with your growing data needs. Our data archiving solution offers a reliable and accessible option for critical data storage.

Archiving sensitive and confidential research data securely for long-term storage and retrieval. Protect your research findings with UNAS reliable and secure data archiving solution.

Securely store and manage large amounts of medical imaging and patient data for healthcare facilities, it keeps patient information confidential and accessible with UNAS data archival solution.

HPC –High Performance Computing /HCI -Human-computer interaction

Experience high-performance computing with UNAS solution, it supports a range of storage devices, including NVMe, SAS Drives, flash storages and 10G/40G and 100G Interfaces. With OpenZFS 2.x and FreeBSD supports. UNAS delivers the performance and reliability you need for demanding HPC environments. Upgrade your HPC setup with CoreIP UNAS for a seamless and efficient computing experience.

Research and Development –

CoreIP UNAS is a robust storage solution that is well suited for the demands of research and development environments. Whether you are working in a university cloud, multi-scale environments, or other R&D setting, UNAS provides you with the performance and reliability you need to store and manage your critical data. With its advanced features, such as NVMe support, SAS drives, flash storage, and high-speed network connectivity, UNAS helps you to overcome the challenges that come with big data and high performance computing, making it ideal solution for R&D professionals.

CoreIP UNAS provides scalable infrastructure solutions to support the ever growing needs of research and development in universities and other institutions.

CoreIP UNAS is built on the Open Source technologies- OpenZFS and FreeBSD making it easy to integrate with existing IT infrastructure and tools.

With support for JBODs (just a bunch of Disk) expansion, UNAS can be customized to meet the specific needs of each research project or initiative, providing the flexibility and resources required to support their goals.

🛠️ Capabilities

Capacity –Hardware
4 U Chassis with 36 Bay 3.5/2.5 Hot Swap Bays with Expandability / AMD/Intel 12 Core/ RAM 2 * 128GB DDR4 ECC RDIMM/ HDD 26*24TB NL SAS/ SSD 9* Enterprise SSD 7.68TB/ SSD-2*NVMe/SATA ENT 128GB SSD/ 2 *10G 2xSFP+/ 1* RAD Card/ 1600 W Redundant Power supply

Capacity – Software
1* CoreIP UNAS Replicator: Capacity based licensing Postgre SQL for storage replication workflows Integration of CLI + API hooks for scheduling snapshots & replication jobs
1* CoreIP UNAS SmartTier: Auto-Tiering & Policy-Based Tiering across Cache, NVMe, SSD, SAS, NLSAS/SATA
1* License for iSCSI, NFS, CIFS protocols 36 bays
1* CoreIP UNAS DataVault: Dump Restore Solution
1* CoreIP UNAS : Enables backup onprimsie to private cloud or public cloud seamlessly.
1 * CoreIP UNAS IntelliProtect :Intelligent Policy-Based Data Protection

Versatility –
SAN:FC NAS:iSCSI /Microsoft (CIFS/SMB) FTP / Linux/UNIX (NFS) HTTP/ gigabit Ethernet Connecting directly to router /remote access from anywhere in the world /Low power design, with drive spin –down feature / Apple AFP/Bonjour Support SNMP/VLAN Tagging

Capability –
On –Disk data protection and organization as RAID 0,1,10,5,50,6,60, distributed RAID /Automatic RAIF rebuild and hot swap drives

Expandability -
Add storage capacity by simply adding drives in the unpopulated drive bays / added drives can be brought into an existing storage pool or made into a new storage tool

Simplicity –
Storage pools group drives of like size and RAID protection together to simplify management

Storage Efficiency –
Thin Provision, Snapshots, Unlimited volume, LUN, Compression , Dedupe, Quota, Dataset, File Policy

Note: Model/capacity may be changed to equivalent or higher.....

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❓ Why CoreIP UNAS

Sharing Files-
Centralized storage with a user-friendly GUI, advanced data protection , and high-bandwidth interconnect for efficient file transfer and collaboration .

Network Access –
If you have multiple computers in your small medium business, Storage controller is easy to store and access files –just drag and drop

Performance –
Performance of UNAS is supreme and support of latest network card of speed 10/25/40/100 Gbps and support of PCIe Gen3/4/5 outperform most workload

Media Streaming –
A Next-Gen solution for media storage and streaming. Supports HD, 4K, 8K workflows and multi clients for push and pull workflows. Ideal for playout storage in broadcast, streaming, and video production**.**

Affordable –
Storage servers are versatile in design and affordable with various ranges tailored for the custom configuration and latest towards the market trends

Shared Storage –
Shared access general storage is meant to be accessible from any clients i.e. Windows/Linux/Apple from anywhere in the network without hassle. UNAS provides various protocols to access the data securely.

Efficiency –
UNAS provides compression and deduplication inline technology that means as soon as the data comes into or goes out storage is get compressed or decompressed on fly. Dedupe makes sure that data is stored once on the storage pool.

Open Source –
FreeBSD is the base kernal that UCAS uses to keep the latest security up-to date. OpenZFS 2.x is used as FileSystem which provides a world class feature sets that you can always trust.

ThinProvision-
Provision the volume size as it grows in the future. Workflows are useful for Vmware kind of environment. Cloning is another feature that can be more efficent without using additional space.

Quotas-
Set user limit of the space that one can use so that storage won't get filled quickly by an hungry user. Quotas allows users to be on limit of the accessible space. This can be changed anytime by admin.

Backup –
Remote, Local both back mode is supported. Files can be auto replicated during the mode of creation keeps multiple files at one location for safe.