

Unified Controller UC3200



Active-Active iSCSI Server for Mission-Critical Environments

Designed for high-availability business environments, Synology UC3200 is the first Synology product with active-active architecture, offering non-disruptive iSCSI services. It provides resilient data protection solutions with a simplified management interface while maximizing service uptime for critical enterprise services. Synology UC3200 is backed by Synology's 5-year limited warranty.

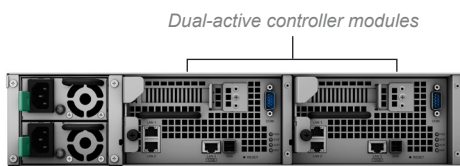
Highlights

- High performance, active-active storage solution to provide non-disruptive iSCSI services
- Over 143,000 4K Random Write IOPS¹, enterprise-class performance with low latency
- Flexible capacity able to scale as needed with RXD1219sas expansion unit²
- Virtualization-ready environment to easily integrate with VMware® vSphere, Citrix® XenServer and OpenStack® Cinder
- Resilient cache protection mechanism to prevent data loss
- Instant data protection with built-in snapshot and replication technologies
- Simple and unified user interface to effortlessly manage data and storage tasks
- Backed by Synology's 5-year limited warranty³

Extremely Reliable, Fairly Simple

Synology UC3200 is an affordable, yet highly reliable IP SAN solution for mission-critical environments. Underneath the 2U chassis are **dual active controller nodes**, each powered by an **Intel® Xeon® D-1521 4-core** processor and **8 GB DDR4 ECC UDIMM**, expandable up to **64 GB**. It delivers outstanding performance of over **143,000 4K Random Write IOPS** and provides a streamlined user experience with the intuitive **DSM UC** operating system to simplify the learning process.

UC3200 allows you to start small and grow in the future. It holds up to **12 x 3.5"/2.5" SAS** interface drive slots by default, and the capacity can be further scaled up to **576 TB** when connected with two RXD1219sas expansion units. It comes with **single 10GbE** and **dual 1GbE** RJ-45 ports per controller and supports 10GbE / 25GbE network interface card expansion with **PCIe 3.0**, boosting network bandwidth with Link Aggregation.

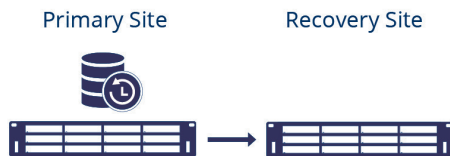


Active-Active Design

Synology UC3200 offers non-disruptive iSCSI services through its dual active design, meeting enterprise's demand for mission-critical environments.

Uncompromised System Stability and Reliability

The **active-active** controller design ensures the critical iSCSI services are highly available, maximizing system uptime for your important applications. The inter-connectivity through the **high-speed NTB (Non-Transparent Bridge)** between the two controllers allows one controller to seamlessly take over the service when the other breaks down. In addition, Synology UC3200 syncs all cached data between the two controllers, avoiding data loss in case of controller failure before data is written into the hard disks. As the **built-in SATA-DOM** on each controller is solely used for running the operating system, separating system partition and data by different storage media optimizes system stability.



Snapshot Replication

Snapshot Replication provides schedulable and near-instantaneous data protection. It can replicate snapshots to a remote site to ensure data remains safe in the event of disaster.

Rock-solid Data Protection

UC3200 supports the powerful data protection application: **Snapshot Replication**. It provides schedulable, near-instantaneous data protection for mission-critical environments. It supports up to 4,096 system-wide replications to offsite servers and local volumes, allowing for application-aware snapshot protection and instant recovery of virtual machines in iSCSI LUNs in the event of a disaster.



Virtualization Ready

Synology UC3200 is an optimized and certified storage solution for various virtualization environments.

Non-disruptive iSCSI Service for Virtualization

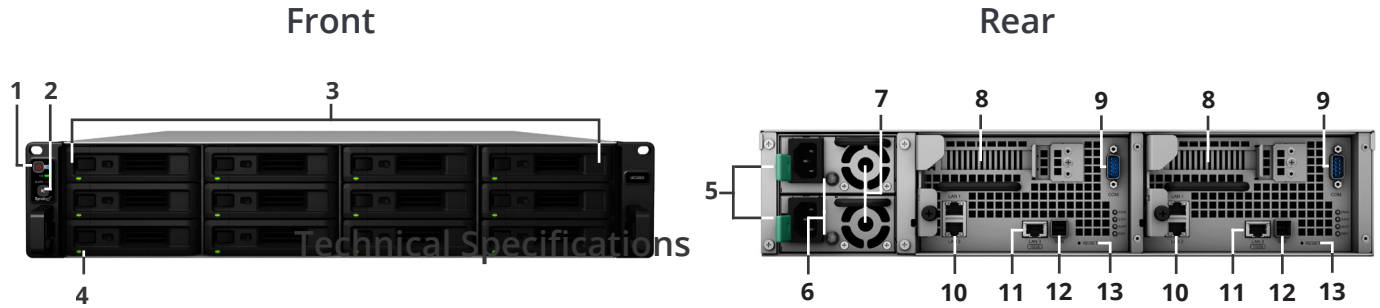
Synology UC3200 enhances work efficiency with a simple management interface. **VMware vSphere™ 6.5 and VAAI integration** helps offload storage operations and optimizes computational efficiency. **Windows Offloaded Data Transfer (ODX)** speeds up data transfer and migration rates, while support for **OpenStack Cinder** transforms your Synology UC3200 into a block-based storage component.

Synology UC3200 is also fully compliant with the iSCSI industrial standard **ALUA**, allowing hosts to identify optimized paths to increase transfer performance and efficiency.

Powerful yet Intuitive Management

Powered by DSM UC operating system, UC3200 offers comprehensive functionalities while keeping the intuitive DSM experience to ease the learning curve. The **simplified management interface** allows you to manage the two controllers from a single management portal. The **built-in monitor applications** give the most updated status in real time and provide prompt notifications when important events occur, allowing IT admins to respond accordingly.

Hardware Overview



1	Power button and indicator	2	Beep off button	3	Drive tray	4	Drive status indicator
5	Power port	6	PSU indicator and beep off button	7	PSU fan	8	PCIe expansion slot
9	Console port	10	1GbE RJ-45 port	11	10GbE RJ-45 (10GBase-T) port	12	Expansion port
13	Reset button						

Technical Specifications

Hardware

CPU (per controller)	Intel Xeon D-1521 4-core 2.4 GHz, Turbo Boost up to 2.7 GHz
Hardware encryption engine	Yes (AES-NI)
Memory (per controller)	8 GB DDR4 ECC UDIMM (expandable up to 64 GB)
Compatible drive type	12 x 3.5" or 2.5" SAS SSD/HDD (drives not included)
Hot swappable drive	Yes
External port (per controller)	1 x expansion port
Size (HxWxD)	<ul style="list-style-type: none"> 88 x 430.5 x 692 mm 88 x 482 x 724 mm (with server ears)
Weight	19.7 kg
LAN (per controller)	<ul style="list-style-type: none"> 2 x 1GbE RJ-45 1 x 10GbE RJ-45 (10GBASE-T)
PCIe 3.0 slot (per controller)	<ul style="list-style-type: none"> 1 x 8-lane x8 slot 10GbE/25GbE network interface card support
System fan	4 (60 x 60 x 51 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60 Hz, single phase
Operating temperature	0°C to 35°C (32°F to 95°F)
Storage temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

General OS specification

Networking protocol	iSCSI, Telnet, SSH, SNMP
File system	Btrfs (internal only)
Supported RAID type	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID F1
Storage management	<ul style="list-style-type: none">• Maximum single volume size: 108 TB (at least 32 GB RAM required, for RAID 5 or RAID 6 groups only)• Maximum system snapshots: 4,096⁴• Maximum internal volume: 32
SSD cache	Read-write cache support
Virtualization	VMware® vSphere® 6.5, Citrix®, OpenStack®
Supported client	Windows Server® 2008 onwards, VMware® 5 onward, Oracle® Solaris 10 onward, Citrix® XenServer 7.2 onward, SUSE® Linux ES 11 onward, Red Hat® ES 6.10 onward
Supported browser	Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets
Interface Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文

Packages and Applications

iSCSI Storage	
iSCSI Manager	<ul style="list-style-type: none">• Maximum iSCSI target: 128• Maximum iSCSI LUN: 128• iSCSI LUN clone/snapshot support
Data Protection	
Snapshot Replication	Maximum of Replication: 32

Environment and Packaging

Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none">• UC3200 main unit x 1• Quick Installation Guide x 1• Accessory pack x 1• AC power cord x 2
Optional accessories	<ul style="list-style-type: none">• 8 GB DDR4-2666 ECC UDIMM (D4EC-2666-8G)/16 GB DDR4-2666 ECC UDIMM (D4EC-2666-16G)• Synology E10G17-F2/E10G18-T1/E10G18-T2 10Gbps Ethernet adapters• Synology RKS1317 - Rail Kit Sliding• Synology Expansion Unit RXD1219sas
Warranty	5 years ³

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Performance figures may vary depending on environment, usage, and configuration.
2. UC3200 can scale up to 36 drives with 2 x RXD1219sas, sold separately.
3. The warranty period starts from the purchase date as stated on your purchase receipt. Visit <https://www.synology.com/company/legal/warranty> for more information.
4. System snapshot includes snapshots taken by iSCSI Manager and Snapshot Replication.

SYNOLOGY INC.

Synology creates network-attached storage, IP surveillance solutions, and network equipment that transform the way users manage data, conduct surveillance, and manage networks in the cloud era. By taking full advantage of the latest technologies, Synology aims to help users centralize data storage and backup, share files on-the-go, implement professional surveillance solutions, and manage networks in reliable and affordable ways. Synology is committed to delivering products with forward-thinking features and the best in class customer services.

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