

# UC3200



**Brand:** Synology

**Product Code:** UC3200

**Availability:** 10

**Weight:** 19.70kg

**Dimensions:** 88.00mm x 430.50mm x  
692.00mm

**Call for Price:**

## Short Description

Synology 12 Bay Unified Controller UC3200 (Diskless)

## Description

### **Reliable, high availability SAN**

Two independent controllers in the Synology UC3200 SAN work simultaneously to ensure interruption-free iSCSI and FC services.

### **Easily scalable**

High-performance SAS drives slots and support for up to 576 TB, fully expanded, ensures the UC3200 is ready for any project. For mission-critical and sensitive data, native support for SEDs provides hardware-level encryption for all data.

### **Redundant power supply**

Modularized and swappable 500W power supply prevents service downtime in the event of a power supply failure.

### **Active-active controller module**

Dual controller modules work simultaneously to provide high performance and uninterrupted FC and SAN services.

### **PCIe expansion options**

Boost network bandwidth with 10/25 Gb Ethernet cards or 8/16 Gb Fibre Channel host bus adapters.

### **2 x 1GbE & 1 x 10GbE**

Onboard RJ45 interfaces of 1GbE and 10GbE with the Link Aggregation support.

### **Mini-SAS HD port**

Connect up to 2 x RXD1219sas for flexible plug-and-play volume expansion.



## **Performance**

A quad-core Intel<sup>®</sup> Xeon<sup>®</sup> processor powers each controller for enhanced reliability and performance of up to 140,000 4K random write IOPs.

## **Scalable memory**

Each controller board features four DDR4 ECC UDIMM slots for expandability and improved system performance.

## **Cooling**

Modularized fans with redundancy regulate system temperatures and are easy to service and replace.

### **Independent system architecture**

The management operating system, DSM UC, is stored on a separate SATA DOM drive on each controller.

### **Non-Transparent Bridge (NTB)**

System memory is synchronized between controllers using a high-speed interface to maximize the protection of in-flight data.







## **Works with mainstream virtualization systems**

Optimized for virtualization environments.

Integrated with VMware vSphere<sup>®</sup> 6.5, Microsoft Hyper-V<sup>®</sup>, and VAAI to offload storage operations and optimize computational efficiency.

Windows Offloaded Data Transfer (ODX) is supported to speed up data transfer and migration rates.

Turn Synology UC3200 into a block-based storage component with the support of OpenStack<sup>®</sup> Cinder.

Compliance with the ALUA industry standard allows hosts to identify optimized paths to increase data transfer performance and efficiency.

Learn more about [Storage for Virtualization](#)

Windows  
Server  
2022

Certified



 openstack.

COMPATIBLE

## **Engineered for iSCSI/FC SAN**

DSM UC, an operating system designed to ease the learning curve, allows you to manage the two controllers from one single portal. The built-in monitor applications display the status at a glance and send prompt notifications when important events occur, so that IT administrators can stay alert to potential problems and respond in the shortest time possible.

## **A unified interface for intuitive management**

### **Cutting-edge LUN features**

Advanced LUN functionality significantly improves VM performance and offers lightning-fast snapshot creation, recovery, and cloning, as well as VMware VAAI and Windows ODX support.

### **Intuitive management**

A streamlined management interface makes connection and permission management

exceptionally easy, even in large-scale SAN environments.

### **For large and small deployments**

Support for iSCSI as well as Fibre Channel means that Synology storage systems integrate as easily in smaller setups as in enterprise environments.

### **Disaster-proof your critical data**

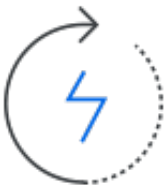
Leverage application-aware snapshot protection and instant recovery of virtual machines on LUNs in case of disaster. Snapshot Replication (enabled by the Btrfs file system) offers schedulable and near-instantaneous data protection, while UC3200 supports up to 4,096 system-wide snapshots of local volumes or off-site servers.



Schedulable, near-instantaneous data protection

4,096<sup>\*</sup>

Supports up to 4,096 system-wide snapshots



Instant recovery of virtual machines



## 5-year warranty

At Synology, we are committed to product innovation and quality. Synology guarantees a robust and reliable data management experience with a 5-year limited warranty, providing responsive technical support and hardware replacement services to maximize your return on investment.

### Software

#### DSM UC Specifications

#### Storage Management

Maximum Single Volume Size		<ul style="list-style-type: none"><li>• 200 TB (32 GB memory required)</li><li>• 108 TB</li></ul>
Maximum Internal Volume Number	32	
Maximum iSCSI Target Number	128	
Maximum LUN	128	

Advanced LUN (Clone/Snapshot) Support Maximum Number of Snapshots per Advanced LUN SSD Read/Write Cache ( <a href="#">Determining cache size</a> ) SSD TRIM RAID Group Supported RAID Type	256	<ul style="list-style-type: none"> <li>• Basic</li> <li>• JBOD</li> <li>• RAID F1</li> <li>• RAID 0</li> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> </ul>
RAID Migration		<ul style="list-style-type: none"> <li>• Basic to RAID 1</li> <li>• Basic to RAID 5</li> <li>• RAID 1 to RAID 5</li> </ul>
Volume Expansion with Larger HDDs		<ul style="list-style-type: none"> <li>• RAID F1</li> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> </ul>
Volume Expansion by Adding a HDD		<ul style="list-style-type: none"> <li>• JBOD</li> <li>• RAID F1</li> <li>• RAID 5</li> <li>• RAID 6</li> </ul>
Global Hot Spare Supported RAID Type		<ul style="list-style-type: none"> <li>• RAID F1</li> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> </ul>
Notes		Volumes over 108 TB require DSM UC 3.1.3-23076 or above and 32 GB of memory or more.
Account & Shared Folder	Maximum Local User Accounts	65
Virtualization	VMware ESXi 6.5 and VAAI	

	Windows Server 2016	
	Windows Server 2019	
	Windows Server 2022	
	Citrix Ready	
	OpenStack	
Snapshot Replication	Maximum Number of Replication	32
	Maximum of System Snapshots	4,096
General Specifications	Networking Protocols	<ul style="list-style-type: none"> <li>• iSCSI</li> <li>• Telnet</li> <li>• SSH</li> <li>• SNMP</li> <li>• Fibre Channel</li> </ul>
	Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ????, ????

## Specification

NAS	
RJ-45 10GbE LAN Port	1 (per controller)
Compatible Drive Type	2.5" dual-port SAS SSD 2.5" dual-port SAS HDD 3.5" dual-port SAS HDD
CPU Architecture	64-bit
CPU Core	4
CPU Frequency	2.4 (base) / 2.7 (turbo) GHz
CPU Model	Intel Xeon D-1521
CPU Quantity	1 (per controller)
Drive Bays	12
Hardware Encryption Engine	Yes
Hot Swappable Drive	Yes
Maximum Memory Capacity	64 GB (16 GB x 4) (per controller)
Memory	8 GB DDR4 ECC UDIMM (per controller)
PCIe Expansion	1 x Gen3 x8 slot (x8 link) (per controller)
Power Supply Unit /	500W



Adapter	
Redundant Power Supply	Yes
RJ-45 1GbE LAN Port	2 (with Link Aggregation / Failover support) (per controller)
System Fan	60 mm x 60 mm x 2 (per controller)
Total Memory Slots	4 (per controller)

## **Product Gallery**