

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® Xeon® 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[®] 6.5, Microsoft Hyper-V[®], 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[®] 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

vmware[®]
READY

CITRIX[®]
ready™

 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

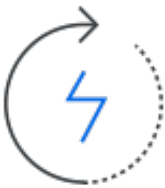
Leverage application-aware snapshot protection and instant recovery of virtual machines on LUNs in case of disaster. Snapshot Replication (enabled by the Btrfs file system) offers schedulable and near-instantaneous data protection, while UC3200 supports up to 4,096 system-wide snapshots of local volumes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



Schedulable, near-instantaneous data protection

4,096^{*}

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">• 200 TB (32 GB memory required)• 108 TB
	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	256
SSD Read/Write Cache (Determining cache size)	
SSD TRIM	
RAID Group	
Supported RAID Type	<ul style="list-style-type: none"> • Basic • JBOD • RAID F1 • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10
RAID Migration	<ul style="list-style-type: none"> • Basic to RAID 1 • Basic to RAID 5 • RAID 1 to RAID 5
Volume Expansion with Larger HDDs	<ul style="list-style-type: none"> • RAID F1 • RAID 1 • RAID 5 • RAID 6 • RAID 10
Volume Expansion by Adding a HDD	<ul style="list-style-type: none"> • JBOD • RAID F1 • RAID 5 • RAID 6
Global Hot Spare Supported RAID Type	<ul style="list-style-type: none"> • RAID F1 • RAID 1 • RAID 5 • RAID 6 • RAID 10
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

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

Specification

NAS	
CPU Model	Intel Xeon D-1521
CPU Quantity	1 (per controller)
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.4 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	Yes
Memory	8 GB DDR4 ECC UDIMM (per controller)
Drive Bays	12
Compatible Drive Type	2.5" dual-port SAS SSD 2.5" dual-port SAS HDD 3.5" dual-port SAS HDD
Hot Swappable Drive	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)
Power Supply Unit / Adapter	500W

Total Memory Slots	4 (per controller)
Maximum Memory Capacity	64 GB (16 GB x 4) (per controller)
PCIe Expansion	1 x Gen3 x8 slot (x8 link) (per controller)
Redundant Power Supply	Yes
RJ-45 10GbE LAN Port	1 (per controller)

Product Gallery