Synology®

Unified Controller

UC3400

Active-Active SAN Storage for Mission-Critical Services

Synology UC3400 is designed for high-availability SAN environments, featuring an active-active architecture that ensures uninterrupted block storage services, while providing resilient data protection and a simplified management interface. With its ability to maximize service uptime for critical services, the UC3400 is ideal for organizations that require a mission-critical storage system.

Highlights

- **Enterprise-Class High Availability**
  High performance, active-active SAN storage solution supporting Fibre Channel[1] and iSCSI protocols to provide uninterrupted services

- **Virtualization-Ready**
  Compatible with VMware vSphere®, Microsoft Hyper-V®, Citrix® XenServer, and OpenStack® Cinder

- **Built-in Data Protection**
  Rapid backups with Snapshot Replication and self-encrypting drive (SED) support keep data safe

- **On-Demand Expansion**
  Scale up to 36 drive bays and 576 TB of raw storage with two Synology RXD1219sas Expansion Units[2]

- **Long-Term Support**
  Backed by Synology's 5-year limited warranty

Reliable, Highly Available Block Storage with Enterprise-Class Performance

The UC3400 is a SAN storage solution featuring fully redundant hardware and high availability features designed to ensure continuous access to business-critical data, helping to reduce the risks of data loss and downtime.

- Over 690,000/180,000 4K random read/write IOPS[3] support high-performance applications
- Support for Fibre Channel and iSCSI enables flexible deployment options and seamless integration with existing storage infrastructure
- Active-active dual controller design ensures zero downtime in the event of a controller failure
- Inter-connectivity through a high-speed Non-Transparent Bridge (NTB) between the two controllers allows for seamless transitions between nodes should one controller become unavailable
- Hot-swappable dual power supplies provide redundancy, preventing service downtime in the event of a power supply failure

Certified Virtualization Storage Solution

UC3400 is a cost-effective, powerful, and simple storage solution for virtualization environments.

- Support for Windows Offloaded Data Transfer (ODX), VMware vSphere Storage APIs Array Integration (VAAI), and ALUA ensure optimized and efficient storage operations
- OpenStack® Cinder support enables UC3400 to become a block-based storage component

Built-in Data Protection

UC3400 provides resilient data protection with a simplified management interface while maximizing service uptime for critical services.

- LUNs can be protected efficiently with [Snapshot Replication](#). Using application-aware snapshots and fast recovery options, IT teams can quickly roll back any unintended changes and recover virtual machines in LUNs in the event of a disaster.

- Self-encrypting drive (SED) support offers enhanced data security and helps organizations meet regulatory compliance requirements. SEDs provide an additional layer of data protection by encrypting sensitive information at rest, which minimizes the risk of unauthorized access or data breaches.
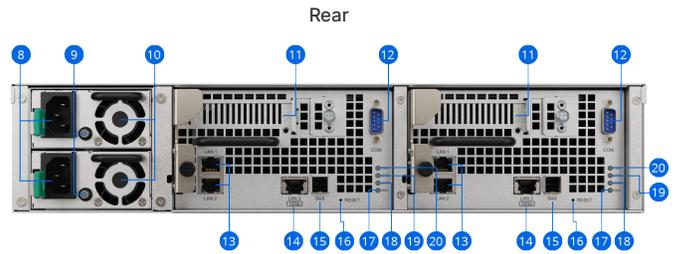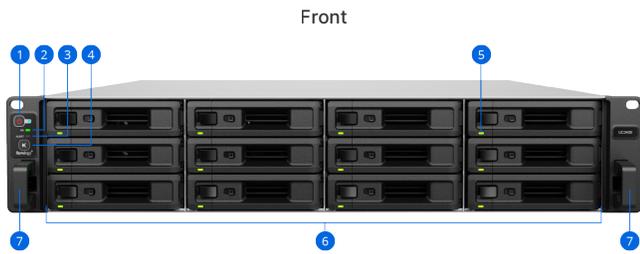
Flexible Expansion and Networking Options

Easily accommodate different or changing operating environments with simple storage capacity and network expansion.

- Simple capacity expansion of up to 576 TB of raw storage is available with two Synology RXD1219sas Expansion Units[2]

- Networking can be expanded from the 10GbE and dual 1GbE RJ-45 ports to 10/25 Gb Ethernet cards or 16 Gigabit Fibre channel host bus adapters on each controller[4]

Backed by Synology's 5-Year Limited Warranty

Maximize your return on investment with the comprehensive hardware replacement and premium technical support services offered under Synology's 5-year limited hardware warranty.

Hardware Overview

Front

Rear

1	Power Button and Indicator	2	High Availability Status Indicator	3	Alert Indicator	4	Mute Button
5	Drive Status Indicators	6	Drive Trays	7	Rail Kit Release Tabs	8	Power Ports
9	PSU Indicators	10	PSU Fans	11	PCI Express Expansion Slots	12	Console Ports
13	1GbE RJ-45 Ports	14	10GbE RJ-45 Ports	15	Expansion Ports	16	Reset Buttons
17	Remove Indicators	18	Alert Indicators	19	Status Indicators	20	Power Indicators

Technical Specifications

Hardware

Controller modules	2
CPU	Intel Xeon D-1541
Memory	8 GB DDR4 ECC UDIMM (expandable up to 64 GB) (per controller)
Compatible drive types	• 12 x 3.5" Synology SAS HDD (drives not included) • Synology only guarantees full functionality, reliability, and performance for Synology drives listed on the compatibility list. The use of non-validated components may limit certain functionality and result in data loss and system instability[5]
Hot swappable drives	Yes
External ports	1 x Expansion port (Mini-SAS HD) (per controller)
Form factor	Rackmount 2U
Size (HxWxD)	• 88 × 430.5 × 692 mm • 88 × 482 × 724 mm (with server ears)
Weight	19.7 kg
LAN ports	• 1 × 10GbE RJ-45 (per controller) • 2 × 1GbE RJ-45 (per controller)
PCIe expansion	• 1 × 8 width slot, Gen 3.0 ×8 lanes (per controller) • 10GbE/25GbE network interface card support[5] (per controller) • 16 Gigabit FC host bus adapter card support[5] (per controller)
Scheduled power on/off	No
System fans	2 x (60 × 60 × 51 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60 Hz, single phase
Operating environment	• Temperature: 0°C to 35°C (32°F to 95°F) • Relative humidity: 8% to 80% RH
Storage environment	• 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 DSM UC Specifications

Networking protocols	Fibre Channel, iSCSI, Telnet, SSH, SNMP
Supported RAID types	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID F1
Storage management	• Max. single volume size: 108 TB • Max. number of system snapshots: 4,096[6] • Maximum internal volume: 32
SSD cache	Read/write cache support
Virtualization	VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, OpenStack
Supported browsers	Google Chrome®, Firefox®, Microsoft Edge®, Safari® 13 and later, and Safari (iOS 13.0 and later) on iPad, Chrome (Android™ 11.0 and later) on tablets
Interface languages	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

SAN Storage

[SAN Manager](#)

Data Protection

[Snapshot Replication](#)

Scan the QR code to download
the detailed Product Specification sheet
https://sy.to/uc3400dsqr

Environment and Packaging

Environmental safety	RoHS compliant
Package contents	1 x UC3400 main unit 1 x Quick Installation Guide 1 x Accessory pack 2 x AC power cord
Optional accessories[5]	- DDR4 ECC UDIMM: D4EC-2666-8G / D4EC-2666-16G - Expansion Units: RXD1219sas 3.5" SAS HDD: HAS5300 Series 25GbE Network Interface Card: E25G21-F2 10GbE Network Interface Card: E10G21-F2 / E10G18-T2 / E10G18-T1 - Rail Kit Sliding: RKS-02
Warranty	5 years[7]

Note: Specifications are subject to change without notice. Please refer to the model's specifications page for the most up to date information.

1. Requires a compatible Fibre Channel host bus adapter, sold separately. Check our compatibility list for compatible HBAs.

2. UC3400 supports up to 36 drives with two RXD1219sas Expansion Units, sold separately.

3. Performance figures obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration. See performance charts for more information.

4. For the most up-to-date list of compatible NICs and HBAs, please check our compatibility list.

5. Please refer to our compatibility list for the latest optional accessories list.

6. System snapshot includes snapshots taken by SAN Manager and Snapshot Replication.

7. The warranty period starts from the date of purchase as stated on your purchase receipt. Visit https://www.synology.com/company/legal/warranty for more information.