Synology®

ActiveProtect Appliance

DP7400



Cyber-resilient Data Protection Solution for Data Centers

The Synology ActiveProtect appliance DP7400 is a data protection solution that comes pre-configured with hardware that runs ActiveProtect Manager, an operating system designed specifically for backup purposes. With its ability to perform backups, restore, deduplicate, replicate, and manage while ensuring security, the DP7400 is an ideal core management server for your company headquarters. It seamlessly integrates all current and future workloads across multiple sites into clusters, enabling centralized management through a single platform. With immutability, air-gapped backups, and access control, the DP7400 protects against ransomware attacks, and secures all your data.

Highlights

- **Deploy quickly**
  Set up your server in minutes
- **Safeguard all workloads**
  Protect VMs, SaaS, databases, physical servers, and more
- **Scalability and visibility**
  Manage up to 150,000 workloads across multiple sites, monitor servers, and backup status
- **Reliable backup**
  Verify backups and test your disaster recovery plan in a sandboxed environment
- **Flexible recovery**
  Perform bare-metal, file-level recovery, or P2V/V2V instant restoration to meet your RTO needs
- **Ransomware defense**
  Integrate immutability and air-gapped backups with WORM storage against ransomware
- **Optimized backup efficiency**
  Leverage source-side global deduplication and a specialized backup engine
- **Data security**
  Implement least privilege with access controls, firewall, and isolation for a robust architecture

Quick and seamless deployment

Essential configuration such as disk partitioning and raid array setup will be automatically completed, making deployment fast and effortless so that you can start protecting your data immediately.

Protect workloads with specified policies

Safeguard all your workloads, including VMware vSphere, Microsoft Hyper-V, Windows, macOS, Linux, NetApp ONTAP, Nutanix Files, Microsoft 365 services, Oracle Database, and Microsoft SQL server. Establish policies for companies to meet SLA requirements, and automate data protection by detecting existing and future workloads, ensuring that the workloads are secured under the appropriate policies. View, modify, and manage policies with ease.

Scalability and visibility

DP7400 can manage up to 2,500 servers and 150,000 workloads in a cluster. Integrate these backup servers into your cluster whenever needed. It also provides visibility into the hardware status of remote backup appliances and performs remote operations. The dashboard consolidates key information within the cluster, giving you a clear overview of all your workloads. Additionally, custom alerts allow for real-time monitoring of appliances and data status.

Reliable backup and flexible recovery

The DP7400 supports self-healing functionality with continuous detection of silent data corruption through Btrfs checksum. It ensures zero errors by repairing corrupt data via RAID technology. To verify the recoverability of backup data, disaster recovery drills can be regularly performed in a sandboxed environment without affecting your primary production site. Backup verification is also available, automatically generating recovery drill videos for auditing purposes. In the event of a disaster, data can be flexibly restored based on your Recovery Time Objectives (RTO) via entire machine restoration, file-level recovery, physical-to-virtual (P2V), or virtual-to-virtual (V2V) methods to restore data to the designated location.

Uncompromised ransomware protection

To prevent ransomware attacks, the DP7400 protects data backups and backup copies with immutability and write-once-read-many (WORM) storage to ensure that no one can modify data that has been backed up during the specified retention period. Additionally, it integrates encryption capabilities, enabling data to be encrypted locally before being backed up to remote destinations. To further enhance security, you can also isolate the remote environment using the air-gap feature.

Optimized backup efficiency

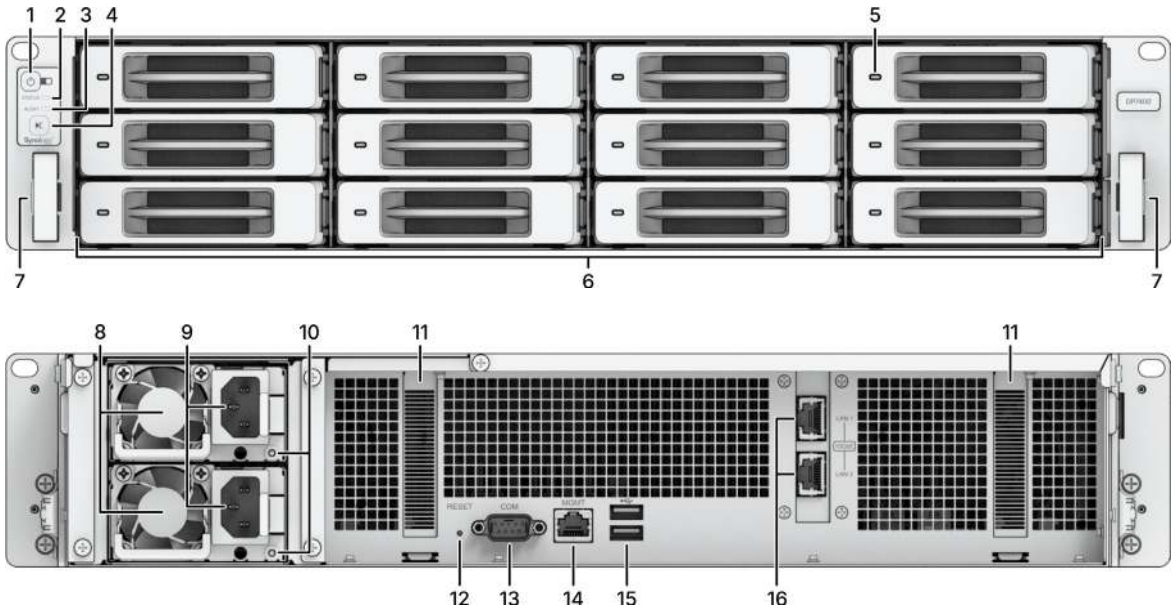
The DP7400 optimizes storage space allocation via hardware and software integration. By leveraging SSD cache to store backup-related metadata, optimizing data organization, and consolidating multiple files into a single image, it accelerates data processing. Both backups and backup copies utilize global source-side deduplication, as it compares data at the source and only transmits non-duplicate data to save bandwidth and storage space.

Data security at its core

The DP7400's security mechanism is based on the principle of least-privilege authentication and network protection architecture. This mechanism only allows authorized personnel to access data, restricts access to specific devices, and limits access to the backup infrastructure during designated times to ensure data security.

- **For authorized personnel:** Active Directory, LDAP, and SAML 2.0 integration enables enterprises to use existing SSO with MFA and granular permissions to enhance access control.
- **For devices:** Firewall settings can be configured to only allow access from devices within specified IP ranges and subnets. The built-in management port is an isolated interface dedicated for management purposes. It is separate from data flow to reduce security risks.
- **Enhanced isolation:** Secure your remote backup infrastructure via air-gapped solutions to achieve network or physical isolation. Limit network access to specified times or turn your devices on or off.

Hardware Overview



1	POWER Button and Indicator	2	STATUS Indicator	3	ALERT Indicator	4	Mute Button
5	Drive Status Indicator	6	Drive Trays	7	Rail Kit Release Tabs	8	PSU Fans
9	Power Ports	10	PSU Indicators	11	PCI Express Expansion Slots	12	RESET Button
13	Console Port	14	Management Port	15	USB 3.2 Gen 1 Ports	16	10GbE RJ-45 Ports

Technical Specifications

General Specifications

Suggested Backup Source	83.5 TB[1]
Suggested Built-in Restored VM	9[2]
Cluster Role	Can function as a cluster controller or a managed server in a cluster that supports up to 2,500 servers or 150,000 workloads[3]

Hardware Specifications

Form Factor	2U (RU)
CPU	AMD EPYC 7272 (12 cores)
Memory	64 GB (Max. 512 GB)
Storage Configuration	• 10 × 20 TB HDD (RAID 6 + 1 Spare) • 2 × 3840G SSD (RAID 1)
Network Interface	• 1 × 1GbE RJ-45 Port (Management) • 2 × 10GbE RJ-45 Port (Data transfer) (Optional) 2 x 10GbE RJ-45 / 25GbE SFP28 (Data transfer)
Dimensions (HxWxD)	• 88 × 430.5 × 692 mm • 88 × 482 × 724 mm (with server handles)
Weight	23.4 kg
AC input power voltage	100 V to 240 V AC
Power Frequency	50/60 Hz, single phase
Power Consumption	163.17 Watt (Access)
British Thermal Unit	556.91 BTU/hr (Access)
Operating Environment	• Temperature: 32°F to 95°F (0°C to 35°C) • Relative humidity: 8% to 80% RH
Storage Environment	• Temperature: -5°F to 140°F (-20°C to 60°C) • Relative humidity: 5% to 95% RH

Environment and Packaging

Certification	FCC, CE, UKCA, BSMI, RCM, NCC, VCCI, KC, BIS, EAC
Environmental Safety	RoHS compliant
Package Contents	• 1 x DP7400 main unit • 10 × 3.5” SATA HDD • 2 × 2.5” SATA SSD • 2 x C13 to C14 Power Cord • 1 x Front Cover • 1 x Accessory Pack • 1 x Quick Installation Guide
Warranty	5 years[4]

Note: Product specifications are subject to change without prior notice. Please refer to the device's **specifications page** for the latest information.

1. These values are estimates based on telemetry data and may vary depending on enterprise usage conditions.
2. When equipped with 128 GB of memory (additional memory modules required), the maximum number of virtual machines can be expanded to 17.
3. **ActiveProtect license** is required.
4. The warranty period begins from the purchase date indicated on the receipt. **Learn more** about the product's limited warranty.

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