Synology

Datasheet

ActiveProtect Appliance

DP5200

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Cyber-resilient Data Protection Solution for Data Centers

The Synology ActiveProtect appliance DP5200 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 DP5200 is a high-performance rackmount backup appliance ideal for mid-sized businesses and can be placed in branch offices or data centers. 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 DP5200 protects against ransomware attacks, and secures all your data.

- **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 120,000 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

DP5200 can manage up to 1,000 servers and 120,000 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 DP5200 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 DP5200 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 DP5200 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.

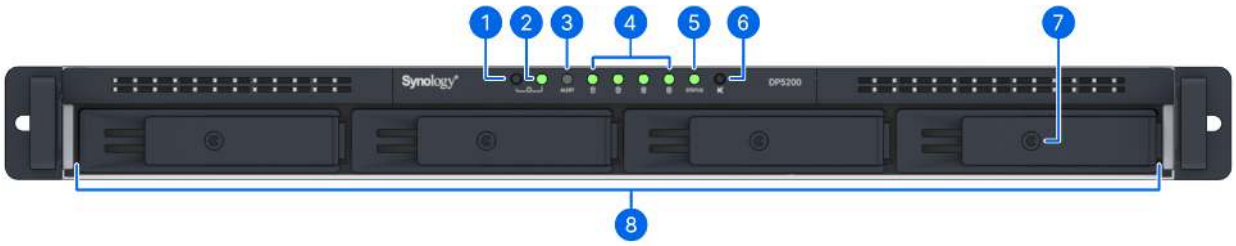
Data security at its core

The DP5200'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.

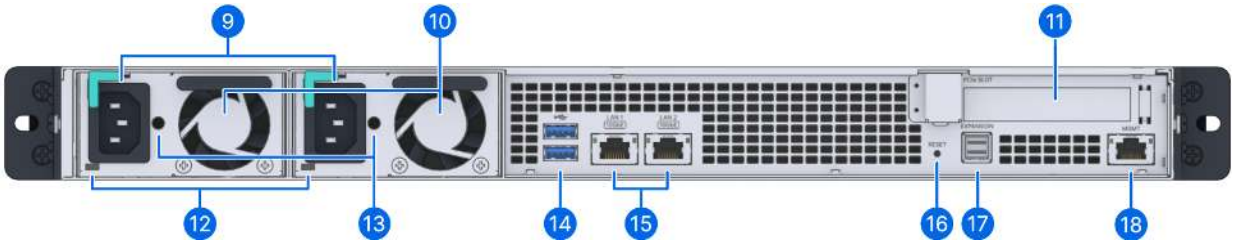
- **For authorized personnel:** Active Directory, LDAP, and SAML 2.0 integration enables enterprises to use existing SSO with MFA and granular permissions to enhance access control.
- **For devices:** Firewall settings can be configured to only allow access from devices within specified IP ranges and 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

Front



Rear



No.	Name	No.	Name
1.	Power button	10.	PSU Fans
2.	Power indicator	11.	PCI Express expansion slot
3.	Alert Indicator	12.	PSU indicators
4.	Drive status indicators	13.	Mounting holes
5.	Status indicator	14.	USB 3.2 Gen 1 ports
6.	Alarm silence button	15.	10GbE RJ-45 ports
7.	Drive tray locks	16.	Reset button
8.	Drive trays	17.	Expansion port
9.	Power ports	18.	Management port

Technical Specifications

General	
Suggested Backup Source	21.5 TB[1]
Suggested Built-in Restored VM	2[2]
Cluster Management Capability	Supports up to 1,000 servers or 120,000 workloads[3]
Notes	1. These values are estimates based on telemetry data and may vary depending on enterprise usage conditions. 2. When equipped with 64 GB of memory (additional memory modules required), the maximum number of virtual machines can be expanded to 10. 3. ActiveProtect license is required.

Hardware	
Form Factor	1U (RU)
CPU	Intel Xeon D-1726 (6 cores)
Memory	16 GB (Max. 64 GB)
Storage Configuration	• 4 × 12 TB HDD (RAID 5) • 2 × 800 GB SSD (RAID 1)
Network Interface	• 1 × 1GbE RJ-45 (Management) • 2 × 10GbE RJ-45 (Data transfer) • (Optional) 2 × 10GbE RJ-45 / SFP+ or 2 × 25GbE SFP28 (Data transfer)
Product dimensions (HxWxD)	44 × 437.5 × 634.5 mm
Weight	12.2 kg
AC Input Power Voltage	100V to 240V AC
Power Frequency	50 / 60Hz, Single Phase
Power Consumption	97.59 W
British Thermal Unit	332.78 BTU/hr
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 & Packaging	
Certification	FCC, CE, BSMI, VCCI, RCM, UKCA, EAC, KC, UL, BIS
Environment Safety	RoHS compliant
Package Contents	• 1 x DP5200 main unit • 4 × 3.5” SATA HDD • 2 x C13 to C14 Power Cord • 1 x Front Cover • 1 x Accessory Pack • 1 x Quick Installation Guide
Warranty	5 Years
Notes	The warranty period begins from the purchase date indicated on the receipt. Learn more about the product's limited warranty.

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