Synology

Datasheet

ActiveProtect Appliance

DP5200

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Powerful Data Protection Solution for Fast-Growing Businesses

The Synology ActiveProtect DP5200 is a purpose-built backup appliance designed for mid-sized companies experiencing rapid growth, companies that require flexible deployment options, and managed service providers (MSPs). The ActiveProtect DP5200 is a powerful backup and recovery solution that comes with pre-configured hardware and software called the ActiveProtect Manager. It is designed to safeguard backups and backup copies while protecting data against ransomware. The DP5200 is a high-density 1U backup appliance that can be deployed at data centers or shared rack environments to maximize storage space efficiency.

- **Deploy with speed**
  Deploy backup appliances and start safeguarding your data within minutes
- **Safeguard all workloads**
  Safeguard SaaS, IaaS, VMs, physical devices, and database data on one console
- **Achieve data visibility**
  Manage and monitor up to 1,000 servers or 120,000 workloads. Deploy at mid-sized companies to store local backups or backup copies
- **Maximize backup & storage efficiency**
  Optimize backup efficiency with CBT technology and deduplicate data with source-side and server-side deduplication
- **Ransomware defense**
  Implement the 3-2-1-1-0 policy for immutable data protection, auto backup verification, off-site backups, and sandboxed DR tests
- **Flexible recovery, anytime anywhere**
  Recover data across cloud or on-premises platforms with P2V, P2C, V2V, V2C, C2V data recovery
- **Scale at any time**
  Tier data to the cloud or on-premises solutions to free up space

Streamlined deployment

Set up and start backing up your corporate data within minutes. Essential configurations, such as disk partitioning and RAID setup, are automatically completed during the initial setup of Synology ActiveProtect. The DP5200 comes as a pre-configured backup appliance that includes all the required hardware components.

Consolidate your workload protection

Safeguard a wide range of on-premises, virtual, and cloud workloads, including Windows PCs, Macs, Linux, VMware vSphere, Microsoft Hyper-V, Nutanix AHV, Proxmox VE, NetApp ONTAP, Nutanix Files, Synology NAS, Microsoft 365 services, Google Workspace services, Oracle Database, Microsoft SQL Server, Azure VM, and Amazon EC2.

Manage backups and ensure total data visibility

Manage and monitor all your backups, backup copies, and tiered data, via a unified console. Set workload protection policies to safeguard any existing and new workloads. Designed for growing businesses, mid-sized businesses, and MSPs, the DP5200 provides local backup protection or stores additional backup copies across distributed locations.

Maximize your storage capacity

With Synology ActiveProtect's SURE (Synology Unified Reduction Engine) technology, backups run faster and storage capacity is optimized. Only modified data blocks are backed up to minimize data transfer and optimize backup efficiency with Changed Block Tracking (CBT) technology. Source-side deduplication removes data before data transmission while server-side deduplication removes redundant data across backup appliances.

Designed with data security at its core

The DP5200's security mechanism is based on the principle of least-privilege authentication and network protection, ensuring that data is protected at every stage from data access to backups to storage and restoration.

- **Network architecture:** Configure firewall settings to only allow access from devices within specified IP ranges and subnets, and ensure only authorized backup appliances can perform data transmissions. The built-in management port is an isolated interface dedicated to management purposes, separate from data flow, to reduce security risks.
- **Identity and access controls:** Enforce least-privilege access with admin roles, so each user only has the permissions they need. Integrate with Active Directory, LDAP, or SAML 2.0 to use your existing SSO with MFA, and automatically block suspicious IPs to prevent unauthorized login attempts.
- **Encryption:** Prevent sensitive data from being exposed even if the device is stolen by encrypting at the volume level as a way to maintain data confidentiality and meet compliance requirements.
- **Logging and monitoring:** Retain, view, and export logs for regular audits, and receive a periodic summary of backup and recovery activities via email. For real-time visibility, set up SNMP traps, SMTP notifications, or syslog forwarding to integrate with existing monitoring platforms and receive alerts as they happen — so IT can trace user activity and stay on top of things.
- **Updates and maintenance:** ActiveProtect Manager automatically updates to the latest version, keeping your system secure and reducing the risk of data breaches. If vulnerabilities are found, Synology is ready to validate the security issues and release relevant patches or fixes.
- **Ransomware defense:** Meet the 3-2-1-1-0 backup strategy and ensure data resiliency. Verify data automatically during backups to ensure clean copies of your data can be stored. Detect and repair any data errors with self-healing capabilities. Conduct DR drills via ActiveProtect's built-in sandbox. Secure backups with WORM (Write Once Read Many) technology so that no changes or deletions can be made to your data. Safeguard clean copies of your backups off-site in an air-gapped environment via logical or physical isolation.

Restore and migrate data flexibly across platforms

Move data seamlessly across cloud and on-premises platforms. Restore data flexibly across cloud, virtual, and physical environments such as Azure VM, Amazon EC2, VMware vSphere, Microsoft Hyper-V, and more. Meet Recovery Time Objectives (RTO) for disaster recovery and ensure fast data access for business continuity requirements. Perform bare-metal recovery, file-level restoration, and download your backups to restore data when needed.

Perform disaster recovery drills regularly in a sandboxed environment without any impact on your production site. Verify your backups and automatically generate recovery videos for audit purposes.

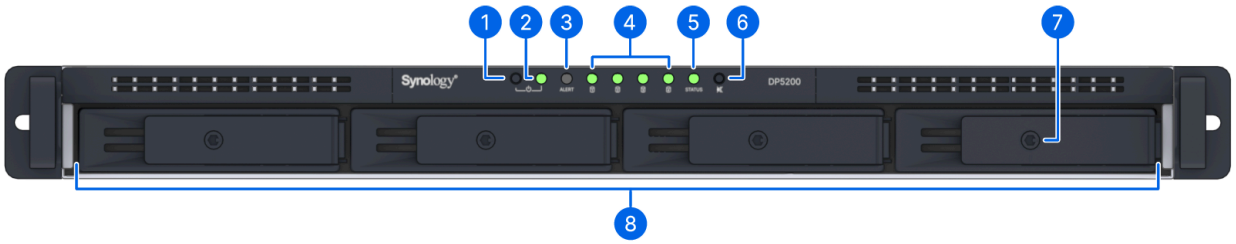
Scale on demand

Use version tiering to move data to remote storage such as Synology NAS, C2 Object Storage, Wasabi Cloud Storage, Azure Blob Storage, or AWS S3, for easy storage expansion and long-term data retention.

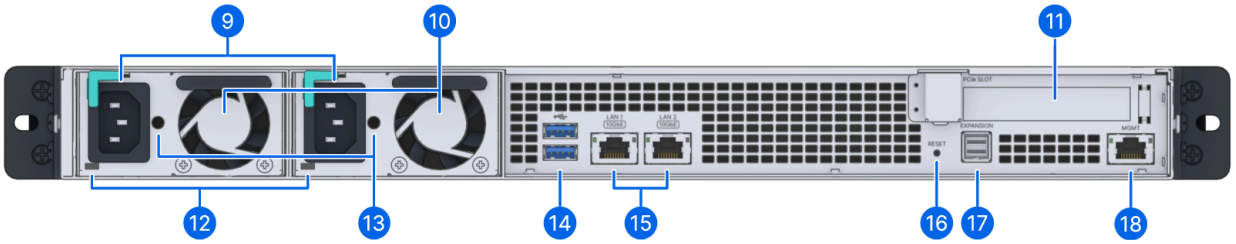
As your business grows, add new backup appliances and manage them all through ActiveProtect Manager's centralized console.

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 3.5" HDD (RAID 5) • 2 × 800 GB M.2 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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