

DS-A82024D(D) **24-slot Double Controller Storage**



The DS-A82 series is an economical and reliable Hybrid SAN (Storage Area Network) product. Hikvision Hybrid SAN product creates a network with access to data storage servers, and it integrates Hikvision's unique video direct streaming technology as well as supports IPSAN. Hybrid SAN system supports third-party cameras such as BOSCH, AXIS, SONY, Samsung, etc., and supports RTSP protocols, and extended data retention. With no recording server needed, Hikvision's Hybrid SAN systems truly make applications simple, flexible, and budget-friendly.

- Dual controller and real-time cache, optional BBU (Backup Battery Unit), one multi-core processor, 8 GB cache extendable to 32 GB per controller
- High-performance, extendable hardware platform
- HDD detection and repair/RAID optimization
- Surveillance-specialized direct storage (Direct Streaming mode+IP SAN mode)
- Advanced data protection (synchronous backup of key information in system disks)
- Energy efficient and user-friendly UI

▪ Function

- 64-bit multi-core processor.
- 8 to 32 GB high-speed cache.
- PCI-E3.0 high-speed transmission channel, support 4 × GbE or 2 × 10GbE is extendable
- Five 10M/100M/1000M network interfaces.
- Redundant design for key modules.
- 4U chassis model supports 24 HDDs.

HDD Detection and Repair/RAID Optimization

- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up

Advanced Data Protection

- Synchronous backup of key information in system disk and HDD.
- RAID-based tamper-proof data technology.
- Auto data synchronization between devices.

Energy Efficient

- CPU load balance.
- Auto fan tuning.

User-Friendly UI

- One touch configuration.
- Various alarm management.
- Supports SADP protocol.
- Supports SNMP.

Video Security-Specialized Stream Media Direct Storage (Direct Streaming Mode)

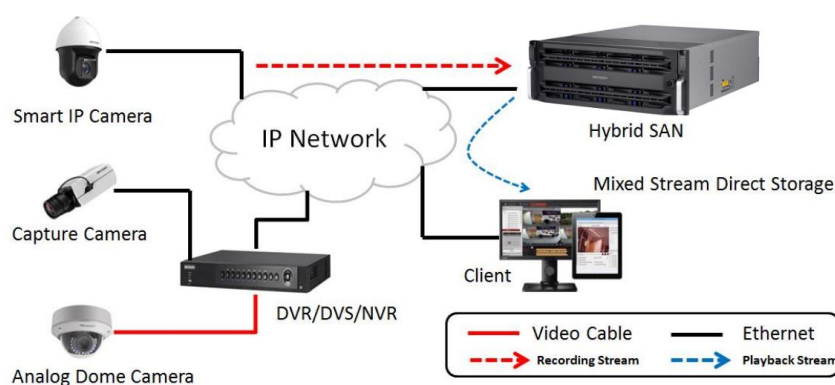
- Space pre-allocation strategy.
- Direct storage for video and picture streams.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Support H264, H264+, H265, H265+.
- Support N+1.
- Supports camera access through iSCSI, RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- Automatic network replenishment (ANR), timely uploading, and video loss alarm.
- Lock key videos.
- Supports both Direct Streaming Mode and IPSAN Mode.
- Search, play, and download videos by video type or video time.

▪ Specification

Network	
Protocol	iSCSI, RTSP, ONVIF, PSIA
External interface	
USB3.0	3
Data network interface	4, 1000M Ethernet interface (4 × 1GbE or 2 × 10GbE is extendable)/Controller
MiniSAS interface	3
COM	1
Management network interface	1, 1000M Ethernet interface/Controller
Storage	
HDD slot	24
Interface/capacity	SAS/1 TB, 2 TB, 4 TB, 6 TB, 8 TB, 10 TB, 16 TB
eSATA	1 eSATA interface
Hot-swapping	Supported
HDD support	RAID(Enterprise Hard Disk)
RAID	RAID 0, 1, 3, 5, 6, 10, 50, JBOD, Hot-Spare
Hardware	
Structure	Dual controller
Processor	64-bit multi-core processor
Cache	8 GB (extendable to 32 GB)/controller (64 GB in total)
Storage Management	
Operating System	Linux
Disk management	Disk inspection, alarm and repair
Logical volume management	iSCSI volume, video volume management
Recording Management	
Recording mode	Timing recording, manual recording, alarm recording
Video protection	Lock key video, N+1 service protection, ANR, video loss detection and alarm
Searching mode	Search by time and event
Downloading mode	Quick download, batch download, download by segment, download by merging
Device Maintenance	
Management mode	Web-based GUI, serial port CLI, centralized management of multiple devices
Alarm mode	Sound, light, email, message, web page
Log downloading	Download on web page
HDD	
HDD Model	Seagate,ST16000NM004J,16T; Seagate,ST10000NM018B,10T; Seagate,ST8000NM018B,8T; Seagate,ST6000NM020B,6T; Seagate,ST4000NM001B,4T;
General	
Power supply	Working: ≤ 507 W (1729 BTU with 24 HDDs); Rated: ≤ 800 W
Chassis	4U (19-inch height)
Consumption(with HDDs)	Working: ≤ 480
Environment temperature	Working: +5 °C to +40 °C (41 °F to 104 °F);Storing: -20 °C to +70 °C (-4 °F to +158 °F)

Humidity	Working: 20% to 80%RH (non-condensing/frozen); Storing: 5% to 90%RH (non-condensing/frozen)
Dimensions(W × D × H)	448 x 702 x 173 mm (17.6 x 27.7 x 6.8 inch)
Weight (without HDDs)	≤ 33.5 Kg (73.9 lb)
Performance Parameter	
IPSAN mode	300-ch
Performance	
Recording mode: video (2 Mbps) + picture	512-ch
Video performance	512
Picture performance	200

▪ Typical Application



▪ Available Model

DS-A82024D(D)

DS-A82024D(D)(DZ820009)

DS-A82024D(NECOP)/16TB*15

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