

DS-A82 Series Hybrid SAN

Introduction

The DS-A82 series is a dual controller-structure Hybrid SAN(Storage Area Network). 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/FCSAN. This flexible, cost-effective solution features ONVIF-support to third-party cameras, support for RTSP, and SIP protocols, and extended data retention. With no recording server needed, Hikvision's Hybrid SAN systems truly make applications simple, flexible, and budget-friendly



Features

Reliable System

- Modular and no-cable design.
- Dual controller.
- Real-time cache.
- Optional BBU (Backup Battery Unit).

High-Performance and Extendable Hardware Platform

- 64-bit multi-core processor.
- PCI-E 2.0 bus.
- Four 1000M Ethernet interfaces per controller.
- SAS interface for storage enclosure.
- High-density chassis. 4U chassis: 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 to two storage enclosures behind a single SAS port.

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

- Quick configuration.
- Various alarm management.
- SADP protocol supported.
- SNMP supported.

Surveillance-Specialized Stream Media Direct Storage (Direct Streaming Mode)

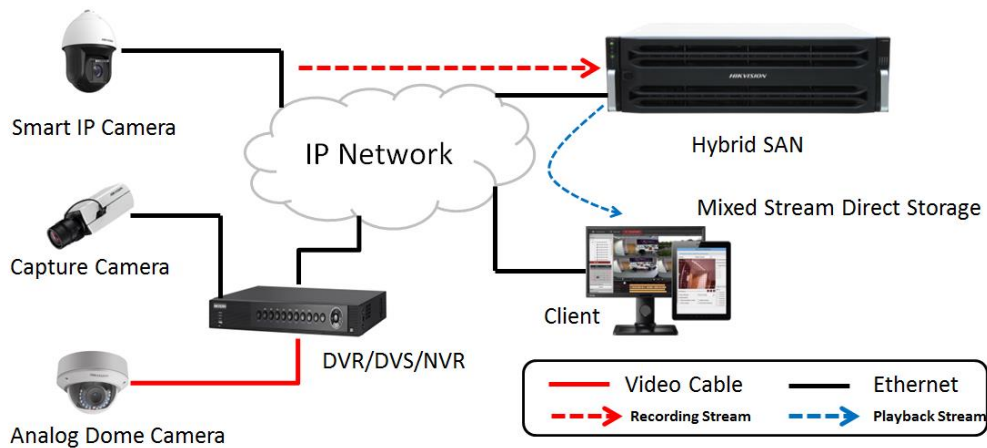
- Space pre-allocation strategy.
- Direct storage for video stream and picture stream.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Supports camera access through RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- N+1 technology.
- Automatic network replenishment (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

Model		DS-A82024D
Performance	Direct Streaming mode: video (2 Mbps) + picture	448-ch (recording + playback)
	IPSAN	256-ch (recording + playback)
Controller	Controller	Dual controller
	Processor	64-bit multi-core processor
	Cache per controller	8 GB (extendable to 32 GB)/controller
HDD	HDD slot	24
	Interface/capacity	SSD (optional), SAS/1TB, 2TB, 3TB, 4TB, 6TB,8TB,10TB
	Hot-swapping	Supported
	HDD support	Single, RAID(Enterprise Hard Disk)
	RAID	RAID0, 1, 3, 5, 6, 10, 50, JBOD, Hot-Spare
Network	Protocol	iSCSI, RTSP, ONVIF, PSIA
Interfaces	Data network interface per controller	4, 1000M Ethernet interface (4 × GbE or 2 × 10GbE is extendable)
	Management network interface	1, 1000M Ethernet interface/Controller
	MiniSAS interface	Supported
	VGA per controller	1
	USB per controller	3
General	Power supply	Redundant
	Consumption (with HDDs)	<ul style="list-style-type: none"> ● Working: ≤ 507 W (1729 BTU with 24 HDDs); ● Rated: ≤ 800 W
	Environment temperature	<ul style="list-style-type: none"> ● Working: +5 °C to +35 °C (41 °F to 95 °F) ● Storing: -20 °C to +70 °C (-4 °F to 158 °F)
	Environment humidity	<ul style="list-style-type: none"> ● Working: 20% to 80%RH (non-condensing/frozen); ● Storing: 5% to 90%RH (non-condensing/frozen)
	Chassis	19-inch 4U
	Dimensions (W × H × D)	447 x 172 x 550 mm (17.6 x 6.8 x 21.7 in)
	Weight (without HDDs)	≤ 33.5 Kg (73.9 lb)

Typical Application



Available Models

DS-A82024D

Hikvision Tested and recommended HDDs

Seagate MakaraBP 5xxn config Series (eg. ST8000NM0075) / Seagate MakaraBP 5xxe config Series (eg. ST6000NM0095) / Seagate MakaraBP Series (eg. ST6000NM0034) HGST 7k6000 series (eg. HUS726060AL5210)

Note: Enterprise HDD strong recommended when used in RAID mode and iSCSI application due to more stability design features; if Surveillance HDD need to be Used, please consult with Hikvision Sales.

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