

DS-A83072S-ICVS-UHK 72-slot Single Controller Storage



Introduction

The DS-A83 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 and ONVIF protocols, and extended data retention. With no recording server needed, Hikvision's Hybrid SAN systems truly make applications simple, flexible, and budget-friendly.

Key Feature

- Economical and Stable Hardware Platform
- 64-bit multi-core processor.
- 8 to 64 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.
- 8U chassis model supports 72 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.
- RAID groups and spare disks configurable
- Quick RAID building.
- Capability of cascading up
- 32 GB RAM
- Network capacity shall be 10 Gbps
- 4 Gigabit Network ports shall be available in the SAN for traffic
- 1 Gigabit Management port shall be available
- User-Friendly UI
- One touch configuration.
- Various alarm management.
- Supports SADP protocol.
- Supports SNMP.
- Surveillance-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

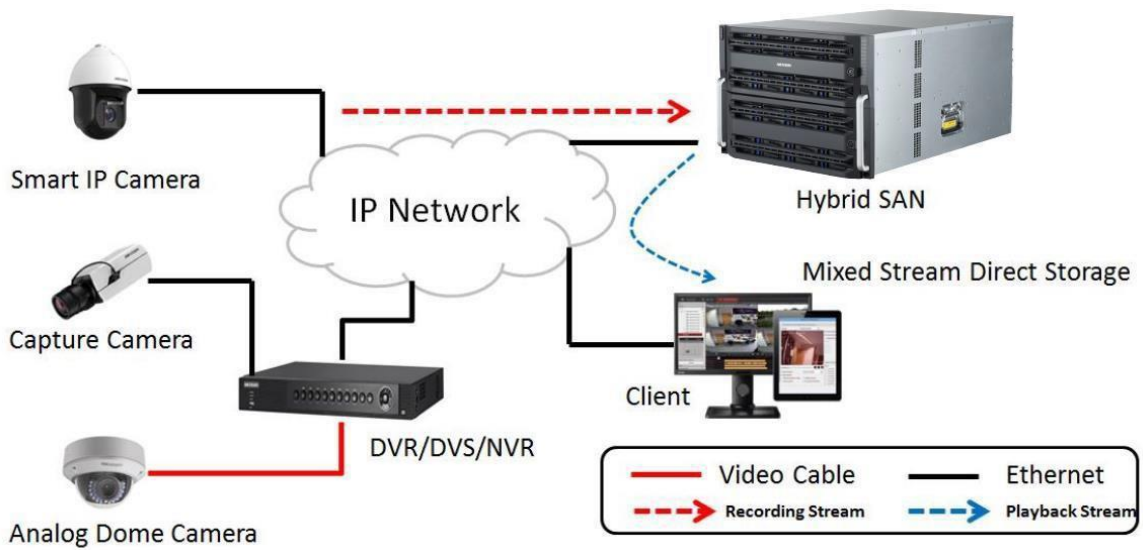
- Advanced Data Protection
- Synchronous backup of key information in system disk and HDD.
- RAID-based tamper-proof data technology.
- Auto data synchronization between devices.
- Energy Efficient
- CPU load balance.
- Auto fan tuning.
- Support such function that when cameras are disconnected from the network and later on, restored on the network, the Micro SD card footage is fetched for the time period camera was disconnected from the SAN.
- Storage shall work in SAN mode to connect with different systems over the network. In SAN mode, it shall also be able to add cameras into it but at the same time, share the SAN with other systems over the network hence making it a multi-purpose SAN.
- Storage shall also be configurable to work in surveillance or camera add mode in order to work dedicatedly as cameras recording device.
- No license requirement for adding OEM or 3rd party devices

▪ Specification

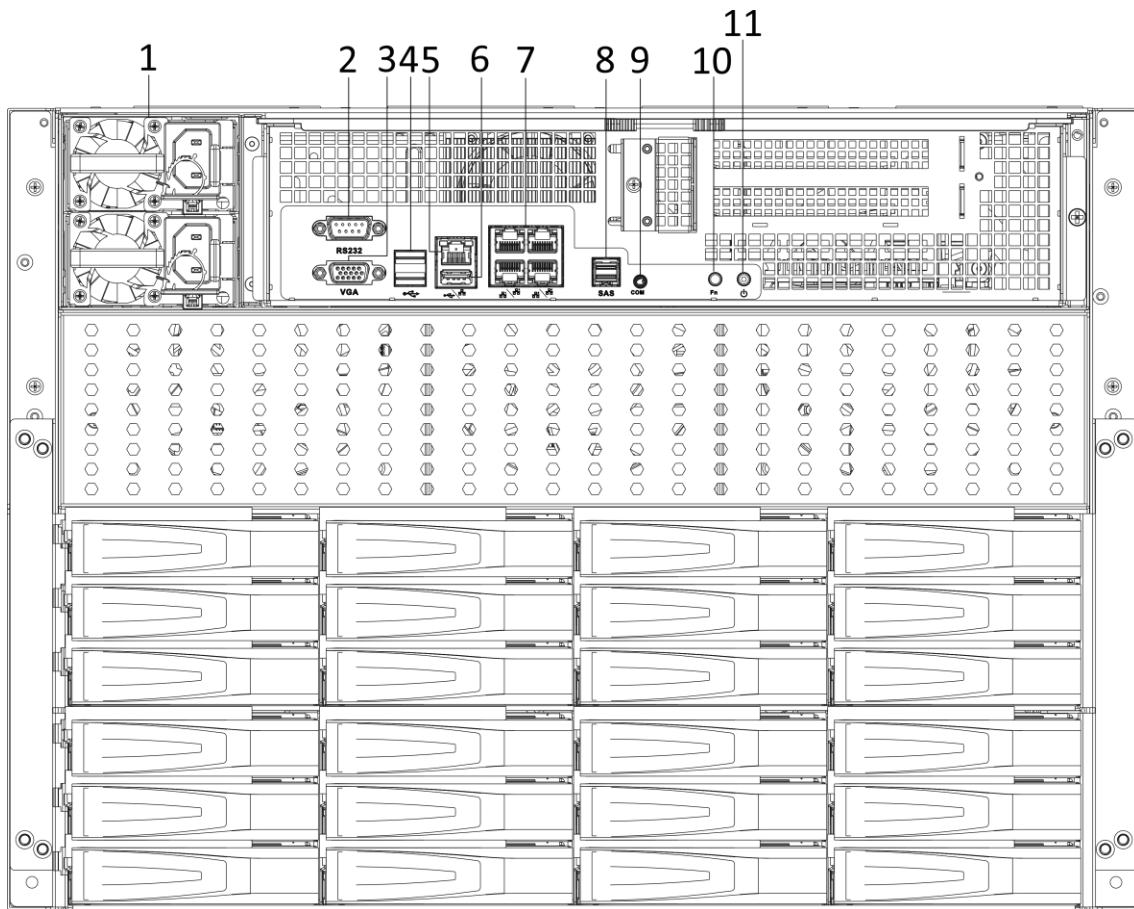
Network	
Protocol	iSCSI, RTSP, ONVIF, PSIA
External interface	
USB	2*USB3.0, 1*USB2.0
VGA	Supported
Data network interface	4, 1000M Ethernet interface(4 × GbE or 2 × 10GbE is extendable)
Ports	4 Gigabit Network ports shall be available in the SAN for traffic 1 Gigabit Management port shall be available
MiniSAS interface	1
COM	1
Management network interface	1, 1000M Ethernet interface
Storage	
HDD slot	72
Interface/capacity	SATA/1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB
Hot-swapping	Supported
HDD support	RAID(Enterprise Hard Disk)
RAID	RAID 0, 1, 3, 5, 6, 10, 50,JBOD, Hot-Spare RAID groups and spare disks configurable
Cluster	SAN support N+M for cluster deployment and redundancy
Others	SAN shall support adding of 1000 cameras
Performance	
Direct Streaming Mode: video (2 Mbps) + picture	512-ch
Hardware	
Structure	Controller Structure
Processor	64-bit multi-core processor
Cache	8 GB (extendable to 64 GB)
Storage Management	
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	Hikvision,HK7216AH,16T; Hikvision,HK7210AH,10T; Hikvision,HK728TAH,8T; Hikvision,HK726TAH,6T; Hikvision,HK724TAH,4T;
General	
Power supply	Redundant 1200W
Consumption(with HDDs)	Working: ≤ 1153

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)
Chassis	8U (19-inch height)
Dimensions(W × D × H)	486 x 776x 344 mm (19.1 x 26.9 x 13.8 in)
Weight (without HDDs)	53kg

▪ **Typical Application**

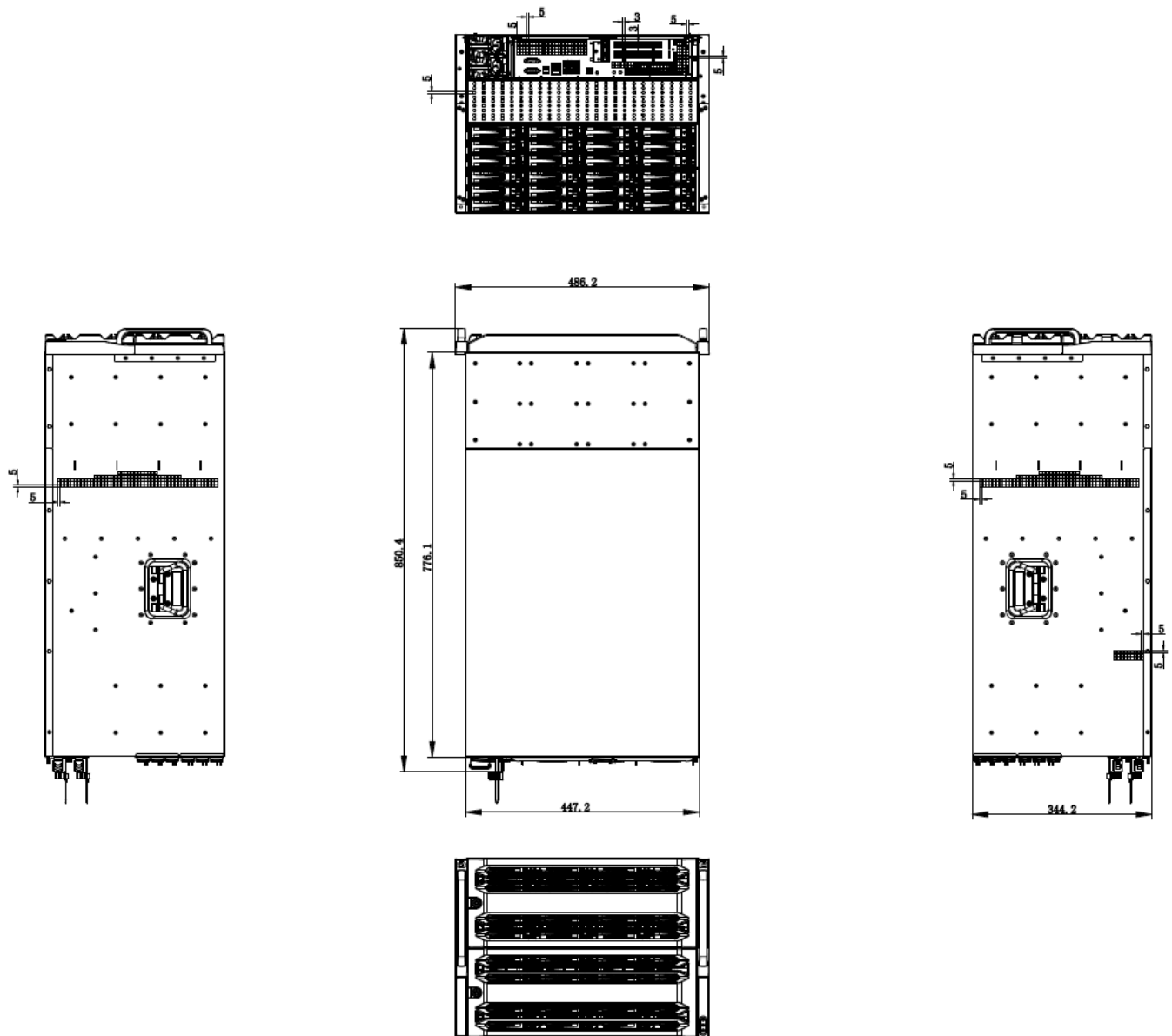


▪ **Physical Interface**



No.	Description	No.	Description
1	Power module	7	LAN interface 1 to 4
2	RS-232 interface	8	SAS interfaces
3	VGA interface	9	COM
4	USB interface	10	FN button
5	Management LAN interface	11	Power switch
6	USB interface		

▪ Dimension



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