

DH-EVS7048S-R

768 Channel Embedded Video Storage



Features

- > Dual controller architecture, ensure the system reliability
- > 64-bit high-performance multi-core processors, ensure the massive data processing stability
- > Modular、poll-out、Cablese Design、 keep system easy-maintainability
- > Support SAS multiple cascade、 external SAS interface bandwidth bi-directional 192Gbps、 ensure the system storage capacity expansibility
- > 48 HDDs in Single device、 single system up to 240 HDDs, capacity up to 1440TB
- > Up to 10-1000Mbps Ethernet ports、 and 4-10000Mbps Ethernet ports
- > Internal backboard bandwidth bi-directional 288Gbps
- > Support 3.5 inch, 2.5inch SAS/SATA (1T、 2T、 3T、 4T、 6T). Support mixed different capacity HDDs
- > Support HDD hot-swap, online replacement, online expand
- > Support standard iSCSI protocol storage and video stream direct storage
- > Under video stream direct storage mode、 support 1536Mbps video storage

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- > Under video stream transmit mode, support 4096Mbps front-end access; 4096Mbps network transmit
- > Under IPSAN working mode, storage bandwidth ≥ 3.6 Gbps
- > Support RAID0、1、5、6、10、50、60、JBOD、hot standby, ensure the data storage safety
- > Support standard protocol such as Onvif、GB28181, ensure the front-end compatibility from different manufacturer
- > Adopts WEB configuration, easy to setup
- > Software and hardware optimization aim at monitoring field, Supporting other monitoring products form a complete solution
- > Completely standard equipment, compatible with various software platform

Technical Specifications

Model	EVS7048S-R
Controller	Single Controller
Memory	8G Standard, up to 16G
SAS interface	2 SAS interfaces
1000 Mbps Ethernet port	1 management port, 4 data port
Expansion	4-1000Mbps Ethernet port or 2-10000Mbps Ethernet port
USB	1 USB3.0
Multiplex interface	1 USB2.0 and eSATA multiplex interface
Serial	1 RS232, 1 RS485
Alarm	4/4 channel In/Out
HDD compatibility	Support 1TB / 2TB / 3TB / 4TB / 6TB HDD Support mixed SAS and SATA HDDs, support SSD & 2.5 inch HDD
Power redundant	Dual power supply redundant
Main processor	64 - bit high-performance multi-core processors
Operating System	Embedded LINUX
User interface	WEB
IPSAN mode	Support IPSAN direct storage
IPSAN function	Support logic volume dynamic online expansion
Video stream mode	Support RTP/RTCP/RTSP/UDP/HTTP/NTP/SNMP/iSCSI/SMB/NFS/FTP protocol
Network protocol	Support RTP/RTCP/RTSP/UDP/HTTP/NTP/SNMP/iSCSI/SMB/NFS/FTP protocol
Streaming media protocol	Support access protocol such as Onvif, GB28181
Frame extracting storage	Support frame extracting storage, time and frame extracting rate can be settled

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Cluster service	Support N+M cluster
Performance index	Up to 768ch(1536Mbps) front-end access、storage、transmit, 64ch (128Mbps) network playback
Hard disk	48 HDDs, expandable up to 240 HDDs
HDD install	Independent HDD holder
HDD Hot Standby	support hot-swappable, on-line replacement
HDD using mode	Single HDD、RAID0、1、5、6、10、50、60、JBOD、Hot-Spare (Hot Standby)
HDD management	Non-working HDD sleep, in favor of heat dissipation and power consumption reduction, prolong life-span of HDD
HDD processing	Support HDD bad tracks mapping, prolong life-span of HDD
HDD status inspection	Support HDD preview before use、periodic inspection during use
One-click RAID	RAID Support one-click set RAID immediately
RAID set-and-play	RAID can be used directly after settled
RAID reset	Support adjust RAID reset speed dynamically, ensure system load balance
RAID write synchronous	Support RAID write synchronous, ensure to data safety
Video playback	Support WEB-client video playback; support search by second; adjustable playback speed
Port property	Support Ethernet-port binding or mode such as load balance, fault-tolerant
Power supply	100V~240V, 47~63Hz, support hot-swap
Fan	DC 12V,1.5A, flabellum diameter: 80mm, support hot-swap
Power Consumption	1000W (include HDD)
Working temperature	0℃~40℃
Working Humidity	10%~80% (non-condensation)
Storage Temperature	-20℃~70℃
Storage Humidity	5%~90% (non-condensation)
Working Elevation	-60m~5000m
Chassis	Hot-dip galvanized steel sheet(1.2mm thickened) High-precise aluminum alloy slide Self-patent drawer-type HDD rack
Dimension(W×D×H)	444.4mm*352.8mm*494m (without lug), 444.4mm*352.8mm*532mm (with lug)
Weight	49.92Kg (exclude external packing, exclude HDD)
Mounting	19 feet standard rack-mounted

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Dahua Technology Co., Ltd.

1187 BinAn Road, Binjiang District, Hangzhou, China

Tel: +86-571-87688883

Fax: +86-571-87688815

Email: overseas@dahuatech.com

www.dahuatech.com

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