DS-A1224R

Enterprise-level, high-performance, and high-reliability storage systems for video surveillance

A gigabit storage system with a mass storage capacity, the DS-A1224R features strong performance and high reliability.It provides 2 Gbps of transmission bandwidth with a single module offering up to 48 TB of storage space. The system also supports expansion by cascading 6 GB SAS extension enclosures.

- The DS-A1224R delivers robust performance, data reliability, and system stability through:64-bit multi-core processor

- Stable server architecture

- RAID 5 and RAID 6 technologies

- Hot swappable disks

- Binding of Gbps network interfaces

- Redundant power supply

- Intelligent fan control

Features

- High performance

The DS-A1224R runs on a high-performance hardware platform that is equipped with the high-speed 6 GB SAS card, 64-bit multi-core CPU, 4 GB cache, 2 Gbps ports, and two ports for extended 6 GB SAS disks.

The improved software design maximizes hardware performance. The DS-A1224R supports enterprise-level 7200 rpm SATA disks and 10000/15000 rpm SAS disks.

- High reliability

The DS-A1224R supports the highly-reliable RAID 5 and RAID 6 technologies. When a disk fails, data access remains unaffected and data integrity is ensured. With a redundant hot-swappable power supply housed in a modular structure, it safeguard against single-point failures of components. Moreover, it supports multi-channel binding to ensure correct channel selection and load balancing.

- Bandwidth reservation

Users can customize the bandwidth for transmission from any access device to the storage system. This effectively prevents the deterioration of access performance caused by bandwidth contention.In this way, users can customize bandwidth for any client to enhance system QoS.

- Large capacity (scalable)

The scalable DS-A1224R provides 4 U interior space and 48 TB of storage space. In addition, it meets mass storage requirements through 1000/2000 GB SATA disks and expansion by cascading 6 GB SAS extension enclosures or stacking storage devices.

- High Availability

The DS-A1224R provides user-friendly GUIs to facilitate system maintenance.The DS-A1224R allows users to graphically monitor CPU usage, memory usage, bandwidth usage, and temperatures. It supports visual and audible alarms and alarm notification by email or SMS.

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Technical Specifications

Model	DS-A1224R
Controller	
Processor	64-bit multi-core processor
Cache	416 GB
Array	24

channel/Number of installed disks	
Power supply mode	Redundant power supply
Disk interface/capacity	SATA I, SATA II/500 GB, 750 GB, 1000 GB, 2000 GB, and SAS (upgrade supported)
Hot swap of disks	Supported
RAID level	RAID 0, RAID 1, RAID 5, RAID 10, RAID 6,hot spare disk, and JBOD
Network interface	26 Gbps network interfaces
Operating system	Windows, Linux, Solaris, HP-UX, AIX, and Mac OS
Protocol compliance	iSCSI, NFS, CIFS, FTP, HTTP, and AFP
System LUNs	A maximum of 1024
Interface types	Two USB interfaces, two Gbps iSCSI interfaces, one 100Mbps management interface, one VGA interface, one PS/2 mouse interface, one PS/2 keyboard interface, and one RS232 interface, two SAS expansion interfaces
Performance	
Transmission bandwidth	250750 Mbps
IO rate	80000 IO/s
Software	
Management mode	Web-based GUI or serial-port-based CLI
Basic functions	RAID management, storage virtualization, network virtualization, monitoring tool, system logs, and error reporting
(Optional) Software module	Clone, WORM, data synchronization, data security, data backup, bandwidth reservation, customized module (monitoring module and streaming media storage module)
User management	Space partitioning and allocation
Environment requirements	
Ambient temperature	540 ℃
Ambient humidity	20%80% RH

| **Accessories** | Processor upgrade module
Buffer upgrade module: 1 GB, 2 GB, 4 GB, and 8GB |