rasilient | enabling forensic-grade surveillance

ApplianceStor 72RGPU

High-Performance Video Surveillance Appliance
GPU Capability supports Video Analytics

High performance VMS Server with Xeon Scalable Series CPU and Nvidia GPUs is ideally suited for Video Analytics and recording for up to 128 Megapixel cameras (with PS5000) *

Features

Analytics Optimized

Designed and optimized for the video surveillance market supporting Video Analytics. It delivers the performance required for the most demanding megapixel installations.

Open

Purpose-built open platform to integrate Video Management Software. All major supported OS and VMS providers are prequalified. More are continually added to ensure the widest possible certification coverage.

Integration

Full, seamless integration with Rasilient PixelStor storage systems.

Scalable

Designed to scale with PixelStor storage, the AS72RGPU is a powerful analytics server that can access capacity to Petabyte. With the NFD's surveillance defined architecture, more AS72RGPU can be added to scale the number of camera channels to 1000.

NFD with Analytics

As part of NFD series of products, the ApplianceStor72RGPU Rack mount supports Video Analytics with up to 4 Nvidia GPU cards. It integrates VMS (Video Management Software) and its analytics into a simple to use high-performance video surveillance solution. Combined with PixelStor storage, every AS72RGPU supports performance for up to 128 cameras with all major prequalified VMS solutions*. The AS72RGPU is easy to install and maintain.

Powerful

The AS72RGPU is built around high performance Nvidia GPU, Intel Xeon® Scalable 8 core / 16 threads processor, and 16 GB DDR4 2400 MHz ECC memory. The AS72RGPU has LAN connectivity with two 10 GbE ports. With the AS72RGPU's flexible LAN connectivity and its impressive power, it can meet the requirements of the most demanding megapixel camera applications.

Versions

The AS72RGPU can be used in conjunction with existing systems for video analytics or as a VMS server. When configured as a VMS server, it will function both as a server AND an analytic server. When used as a detached analytic server, then it only handles analytics passed onto it by the server.

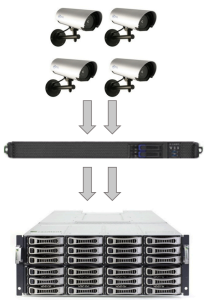

Figure 1: Cameras pass footage to AS72 Server/VMS. AS72 passes footage to storage.

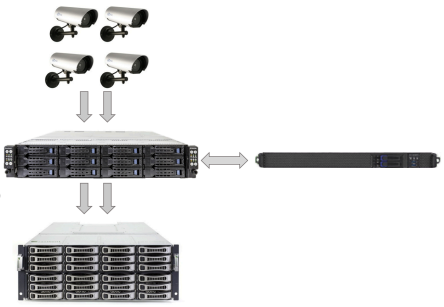

Figure 2: Cameras pass footage to server and AS72 runs analytics. Server passes footage to storage.

Reliable

Disk drive failure is the number one cause of lost video storage and downtime. Standard dual SSD OS drives in RAID 1 are offered to ensure the system is always up and fast booting. The AS72RGPU uses only ECC RAM and ensures that video being stored, read, and moved within is always correct. It uses a parity bit to accomplish the data protection. Most NVRs and DVRs are not protected to this level and crucial video can be lost. The AS72RGPU gives peace of mind that the video is always reliably stored. Combined with PixelStor advanced RAID and ZM technologies, the loss of video due to a disk failure is eliminated.

* Maximum camera support is calculated using 1MP HD cameras using H.264 at 15fps.

More Features

Upgradable

Additional RAM can be added, allowing up to 96GB RAM to be used.

Easy

The AS72RGPU delivers effortless installation, management and administration. All administration functions assume technicians have basic to no storage knowledge. Once installed in a rack, setup time should be 15 minutes or less.

Manageable

Easy to manage with remote management. Web-based, GUI-driven iKVM provides full control of server functions with dedicated hotkeys and remote server screen. Virtual media-over-LAN helps share local devices with target servers, enabling fast troubleshooting.

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Specifications

Core Technology	
CPU	Intel Xeon Scalable Family
Socket	Socket LGA3647
Core Logic	Intel® C621 PCH Chipset
Bench Mark/Clock speed	~10,000 / 1.8 GHz
Memory size	16GB (expandable up to 96GB)
Memory type	DDR4 2666 ECC RDIMM
Video Storage Performance	Up to 720Mbps / 90MBps with PS5000
Graphics	
Optional GPU Accelerators	4x Nvidia Quadro, GTX, etc. Supports Double slot also
Onboard Graphic	ASPEED AST2400 with 16MB VRAM
Display Outputs	1x VGA (on-board), additional based upon GPU card.
Max Supported Resolution	VGA - 1920x1200 @ 60Hz
Storage	
HDD Bays	2 x Hot-swap 2.5"
OS Drives	Dual RAID1 120GB SSD
Networking	
Data Ports	2 x 10 GbE (Intel)
Management (IPMI)	1 x GbE
I/O Ports	
	1x USB 3.0 (rear), 2 x USB 3.0 (front)
	1 x D-Sub (1x rear)
	1x Serial Port (rear)
Compliance	
Safety	
	IEC: 60950-1:2005+A1+A2, compliance to EU Directive 2006/95/EC TUV)
EMI	US (FCC, Part 15, Class A), CAN (ICES-003), EU (2004/108/EC)
Physical Characteristics	
Dimensions (in./mm)	34.5" x 17.4" x 1.7" / 885 x 438 x 43.5
Weight	58.5lbs./26.5Kg
Power	Dual 1+1 Redundant, 80+ Platinum
Voltage / Current	100 - 127 V_{AC} /12A, 200-240 V_{AC} /9.48A
Watts	1600 W
Operating Environment	Designed for 24x7x365
Operating temperature	10℃ ~ 35℃
Non-operating temperature	-40℃ ~ 70℃
Humidity	20% ~ 90% (Non-condensing @ 35℃)
Operating altitude	0 to 10,000'/0 to 3000m