

Pivot3 RAIGE® Array

TECHNICAL SPECIFICATIONS

- Clustered iSCSI Storage
- High availability architecture
- Redundant power and hot-swap drives
- Scalable, aggregated performance



Pivot3 RAIGE Array Overview

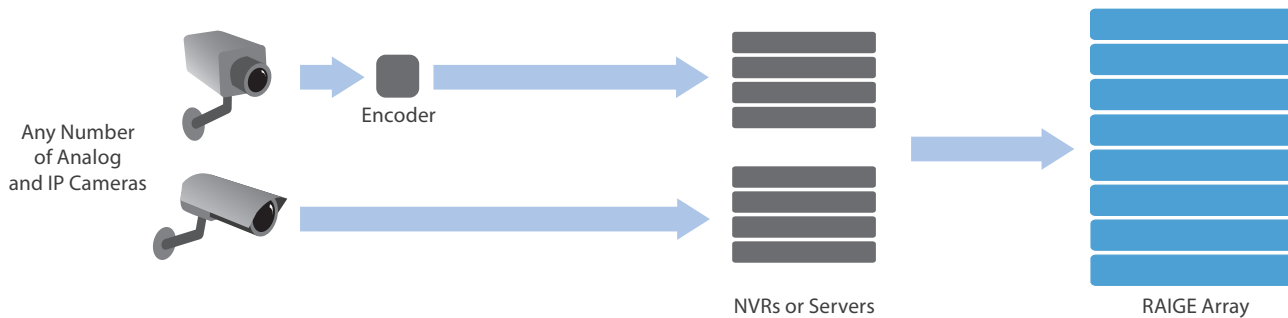
Each RAIGE Array is a collection of Databank appliances connected with standard Gigabit Ethernet connections where each Databank runs the RAIGE (RAID across Gigabit Ethernet) Storage Software. Databanks are automatically discovered on the Ethernet network and assigned to arrays of up to eight Databanks.

RAIGE™ Storage Software

The RAIGE software aggregates the capacity and performance of the Databank appliances, presents a single logical management view, supports dynamic expansion of the array and protects against any hardware failures.

Databank Appliances

Databank appliances each contribute 12 terabytes of storage capacity along with a distributed RAID controller, dedicated system memory and 2 Gigabits of storage area network bandwidth.



Storage Sizing Guide

# Databanks	Usable RAID5 Capacity (in TB)*			Bandwidth MB/sec	Data Protection
	500 GB	750 GB	1 TB		
1	3.6	5.4	7.2	200	Disk
2	7.2	10.7	14.3	400	Disk
3	11.4	17.1	22.8	600	Disk & Appliance
4	17.4	26.1	34.8	800	Disk & Appliance
5	23.4	35.1	46.9	1,000	Disk & Appliance
6	29.4	44.1	58.8	1,200	Disk & Appliance
7	35.3	53.1	70.8	1,400	Disk & Appliance
8	41.3	62.1	82.8	1,600	Disk & Appliance

* 1TB = 1,000,000,000,000 bytes - Calculations are with drive sparing enabled

RAIGE Array Storage Specifications

Up to 128 servers connected per Array	Databanks contains 12 Enterprise SATA drives of 500GB, 750 GB, or 1 TB capacity	Up to 128 Volumes per Array	RAID Levels 0, 1, and 5e can be dynamically selected. RAID 5e protects against a drive failure or a complete appliance failure and all of its 12 drives	One or more non-dedicated RAIGE Director Management Station	Up to 8 Databanks in each array. All volumes can be dynamically resized and can be assigned a rebuild priority
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Microsoft Host

Microsoft Windows Server 2003 Environments
Microsoft Windows Server 2003 (32 bit or 64 bit)

Microsoft Windows Server 2008 Environments
Windows Server 2008

RAIGE Director Software

RAIGE Director manages the RAIGE Array and runs on any x86 desktop or server with an IP connection to the RAIGE Array. RAIGE Director is available in both a graphical user interface and CLI version.

RAIGE™ Director GUI Requirements
Microsoft Windows Server 2008

Server 2003

Microsoft Windows XP Pro with SP-2

RAIGE™ Director CLI Requirements
Microsoft Windows Server 2008

Server 2003

Microsoft Windows XP Pro with SP-2

NVR Server and Ethernet Switch Requirements


NVR Server Requirements
Storage Connection: 2 x Gigabit Ethernet connections in addition to standard network connectivity

Ethernet Switch Requirements
Standard Layer 2 Gigabit Ethernet switch

2 dedicated switches required for storage fault tolerance

Sufficient switch ports for 2 ports per Databank

Databank Appliance Specifications

Dimensions: Height: 2U, 3.5" Width: 17.2" Depth: 25.5" Weight: 52 lbs / 23.6kgs Processor: 2.3 GHz Quad-Core Intel Xeon Memory: 2GB ECC Fully Buffered DIMM Drives: 12x Enterprise SATA Networking: 2 x 1 Gigabit Ethernet ports	Thermal rating: Spec 2600 BTU/hour Typical 1147 BTU/Hr @ 120V, 1126 BTU/Hr @ 220V	
Cooling: Redundant, replaceable fans Operating Environment: 10°C–35°C (50°F–95°F) Humidity Range 8 - 90% non-condensing	Regulatory (Power Supply) Power Supply Safety / EMC USA - UL listed Canada - CUL listed Germany - TUV Certified EN 60950/IEC 60950-Compliant CB Report and CCC Certification	
Power Rating: Spec 2 x 800W Redundant Hot Swap Power Supplies with PFC, Auto-sensing Typical AC Voltage 120v (2.8 amp) AC Voltage 220v (1.5 amp) 50-60Hz	Warranty: Standard Hardware three year parts, return to factory. Standard Software 90 days for bug fixes and updates. Extended warranty options are available.	