

Pivot3 Serverless Computing™

TECHNICAL SPECIFICATIONS

- Clustered Server/Storage Platform
- High availability architecture
- Scalable, aggregated performance
- Optional Windows® Server 2003



Pivot3 Serverless Computing™ Overview

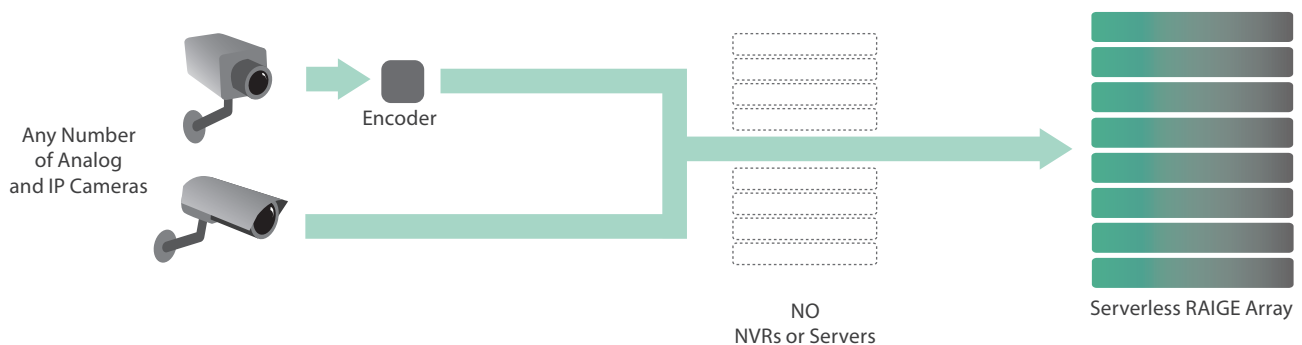
Pivot3 Serverless Computing is an enhancement to Pivot3's award-winning RAIGE storage architecture where computer resources are consolidated into the Pivot3 storage hardware platform for dramatic reductions in power, cooling, rack space and cost. The product integrates server and storage virtualization technologies to deliver consolidation benefits to customers that might not ordinarily consolidate servers.

RAIGE Storage Software

Pivot3 RAIGE software aggregates the capacity and performance of the Cloudbank appliances, presents a single logical management view, supports dynamic expansion of the array and protects against any hardware failures.

Server Software

Each Cloudbank has the capability to run Windows and one application in addition to the Pivot3 RAIGE software. This allows each Cloudbank to contribute both compute and storage resources to the array.



Storage Sizing Guide

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

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

Serverless Array Specifications

Up to 8 embedded servers connected per Array	Cloudbanks contain 12 Enterprise SATA drives of 500GB, 750GB, 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 Cloudbanks in each array. All volumes can be dynamically resized and can be assigned a rebuild priority
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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 or

Server 2003 or

Windows XP Pro with SP-2

RAIGE Director CLI Requirements

Microsoft Windows Server 2008 or

Server 2003 or

Windows XP Pro with SP-2

NVR Operating System Options and Ethernet Switch Requirements

NVR Operating System Options

Windows Server 2003, SP2, Embedded, 32 bit

Ethernet Switch Requirements:

Standard layer 2 Gigabit Ethernet switch

2 dedicated switches required for storage fault tolerance

Sufficient switch ports for 2 ports per Cloudbank

Cloudbank Appliance Specifications

Dimensions: Height: 2U, 3.5" Width: 17.2" Depth: 25.5"
Weight: 52 lbs / 23.6kgs
Processor: Two 2.3 GHz Quad-Core Intel Xeon
Memory: 8GB ECC Fully Buffered DIMM
Drives: 12x Enterprise SATA
Ethernet: 2 ports for storage connectivity and 4 for NVR connectivity

Cooling: Redundant, replaceable fans
Operating Environment: 10°C–35°C (50°F–95°F)
Humidity Range 8 - 90% non-condensing

Power Rating:
Spec 2 x 800W Redundant Hot Swap Power Supplies with PFC, Auto-sensing
Typical 450W (3.8amp @120v; 2.0amp @ 220v) 50-60HZ

Thermal rating:
Typical 1556 BTU/Hr@120v; 1539 BTU/Hr @220v

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

Warranty:
Standard Hardware three year parts, return to factory.
Standard Software 90 days for bug fixes and updates.
Extended warranty options are available.

