Open for innovation

transtec RAID goes Linux:
A new storage systems architecture

transtec PROVIGO 410 SATA RAID System

- Open architecture based on Intel x86 and Linux Kernel
- Dual iSCSI & FC ports for flexible connectivity
- High-availability system with redundant controllers
- Integrated snapshot feature
- Excellent serviceability
- Easy 3rd party software portability due to open Linux kernel

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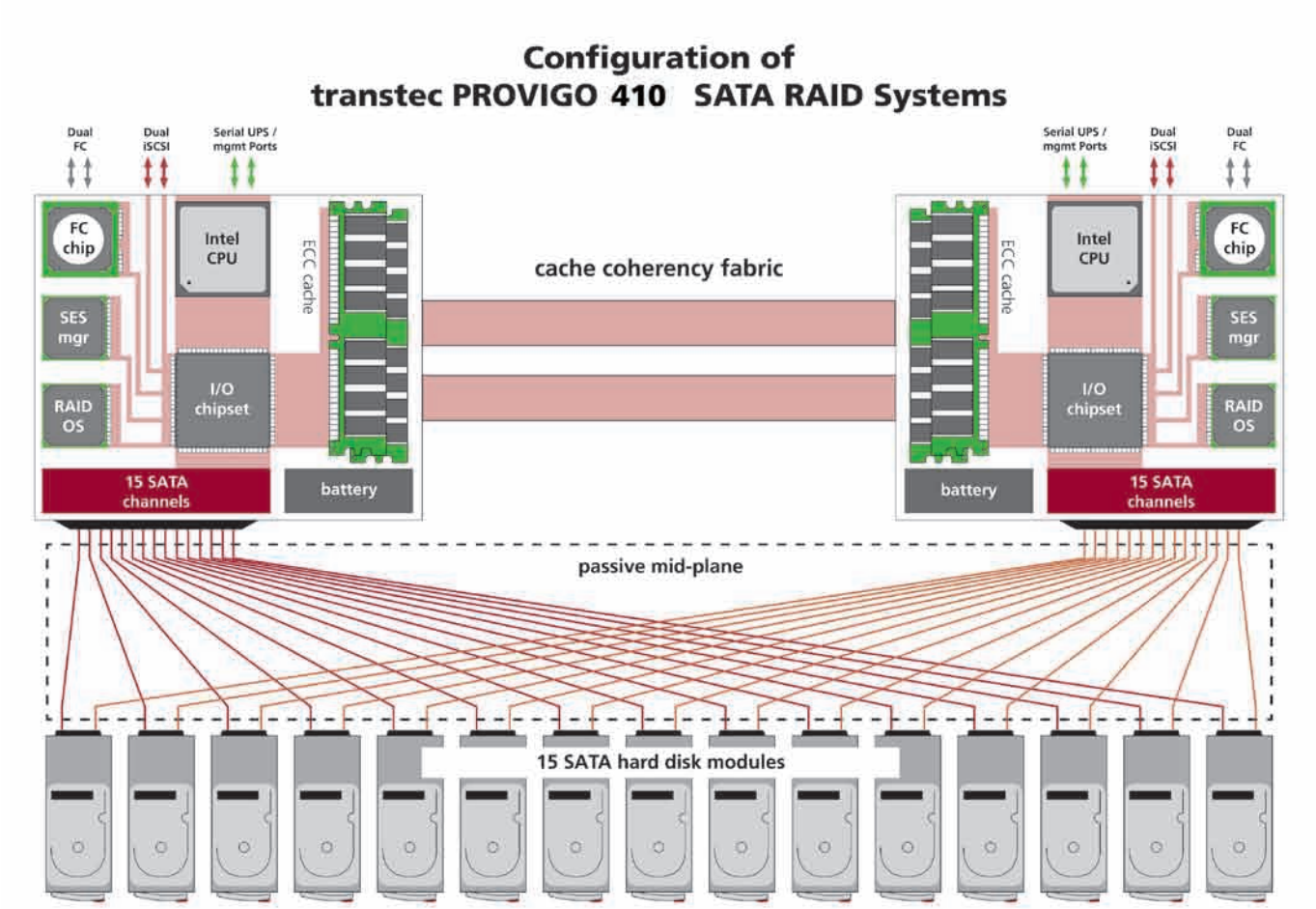

Intelligent Architecture

Innovative transtec PROVIGO 410 RAID systems provide a solid and economical high-availability, high-performance storage platform. In contrast to conventional RAID architectures based on proprietary RAID controllers and embedded Intel XScale or IBM RISC CPUs, the transtec PROVIGO 410 uses more advanced, high-performance, open x86 architecture with embedded Linux RAIDOS.

Two small form-factor x86 mainboards equipped with Pentium 4 processors function as RAID controllers, which operate in a redundant, active-active load-sharing mode. The boards are hot-swappable and can be removed without tools. As with conventional controllers failover is fully automatic and takes less than a minute. It is host-transparent and requires no multipathing host software. The integrated snapshot feature permits to create non-interruptive, full snapshots that can be allocated to other servers for backup or disaster recovery purposes.

Flexible, reliable networked storage

transtec PROVIGO 410 systems provide highly flexible connectivity and configuration. The basic model features two iSCSI ports per controller with GbE trunking and jumbo frame support while the standard model has, in addition to two iSCSI ports, two FC ports per controller. LUN masking and CHAP authentication protect against unwanted access from unauthorised systems and users.

Controller configuration and cache policies leave no wish open. For maximum reliability the two controllers are configured for redundant operation with a mirrored write-back cache. In the event that a controller fails the cache policy of the remaining controller is automatically set to write-through. A cache battery module with 72 hour bridging time can be employed for added reliability. For maximum performance the controllers can be configured to operate independently. The system can also be configured as shared storage for connection to an HA cluster system.

Administration of the transtec PROVIGO 410 could hardly be easier. The intuitive, Web-based GUI provides structured, step-by-step configuration and diagnostics. Telnet, command line and serial console management options are also available. Status LEDs provide quick visual information.

transtec PROVIGO 410E SATA RAID (iSCSI)

Main Specifications	
Product Description	transtec PROVIGO 410E SATA RAID
Type	RAID system
Hard Drive	15x SATA
Interface Type	1 Gbit Ethernet (iSCSI)
Storage Capacity	3.75 TB to a max. of 11.25 TB
Max. No. of Storage Peripheral Devices	--
Storage Controller	Based on Intel x86 basis and Embedded Linux Kernel Single controller cold-swap - Dual controller hot-swap
Processor	Intel Pentium 4
Cache per processor	1 GB - max. 2 GB - PC2100 DDR DIMM
Battery	1x installed per processor, 72-hour battery life
RAID Level	0, 1, 5, 10, JBOD
No. of Ports	Per controller: 2x 1 Gbit Ethernet (RJ45) to host 1x serial for local management, 1x serial for UPS monitoring
Software Included	RAIDconn (Browser-based GUI) with full-copy snapshot agent, terminal emulation via Telnet, serial console for local management
Supported Devices	Windows, Linux
Power	Single controller: 550 Watts - cold-swap (optional redundant) Dual controller: 550 Watts - redundant - hot-swap
Form Factor	19" 3U rackmount
Dimensions (WxDxH)	445 x 629 x 131 mm (without handles)
Manufacturer Warranty	3-year collection service

transtec PROVIGO 410F SATA RAID (FC + iSCSI)

Main Specifications	
Product Description	transtec PROVIGO 410F SATA RAID
Type	RAID system
Hard Drive	15x SATA
Interface Type	2 Gbit Fibre Channel & 1 Gbit Ethernet (iSCSI)
Storage Capacity	3.75 TB up to a max. 11.25 TB
Max. No. of Storage Peripheral Devices	--
Storage Controller	Based on Intel x86 basis and Embedded Linux Kernel Single controller cold-swap - Dual controller hot-swap
Processor	Intel Pentium 4
Cache per processor	1 GB - max. 2 GB - PC2100 DDR DIMM
Battery	1x installed per processor - 72-hour battery life
RAID Level	0, 1, 5, 10, JBOD
No. of Ports	Per controller: 2x 2 Gbit FC (LC) and 2x 1 Gbit Ethernet (RJ45) to host 1x serial for local management, 1x serial for UPS monitoring
Software Included	RAIDconn (Browser-based GUI) with full-copy snapshot agent, terminal emulation via Telnet, serial console for local management
Supported Devices	Windows, Linux
Power	Single controller: 550 Watts - cold-swap (optional redundant) Dual controller: 550 Watts - redundant - hot-swap
Form Factor	19" 3U rackmount
Dimensions (WxDxH)	445 x 629 x 131 mm (without handles)
Manufacturer Warranty	3-year collection service

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