

## Think Computer Products Announces ThinkTank Q-Clusters, Servers & Workstations Featuring The Power of AMD Opteron™ Processors

**Think Computer Products**, a launch partner for the AMD Opteron™ processor, recently rolled out the latest ThinkTank Q Series servers, workstations and clusters featuring the power of the newly released AMD Opteron processors.

The ThinkTank Q-Cluster™ Base DP64, 1U and 2U versions each feature the power of dual AMD Opteron processors 200 Series with HyperTransport™ technology-based high-performance computing solutions. Each of the rackmount models features IPMI compliant remote monitoring and alert notification and fault tolerant power, cooling and storage. The additional expansion capabilities of the 2U provides for flexibility and integration within heterogeneous hardware environments, such as storage area networks and test monitoring platforms. The company further announced that several other designs utilizing AMD Opteron™ processors, including 4U and pedestal based solutions, are expected to begin shipping in Q2 2003.

Each of the ThinkTank Q Series platforms is customized according to customer preference. The company provides rapid-fulfillment of all ThinkTank based solutions, built in their ISO 9002 Quality Certified facilities.



The ThinkTank Q Series platforms are designed primarily for streaming data monitoring/analysis/response, digital image processing, rapid prototyping, real world modeling/analysis, digital film compositing, video effects and rendering applications. The high-performance systems are well suited for the needs of government, science, finance, medicine, entertainment and security industries. The company

believes that the new solutions should also help pave the way for small and mid-size businesses to enter the world of quality-built, affordable high-performance cluster computing.

"After extensive testing of the AMD Opteron processor-based ThinkTank Q Series platforms, we're convinced they're going to change the face of the industry," comments Bill Hojreh, President of Think Computer Products. "We've never seen computing technology with price/performance ratios as promising as this - it's a genuine revolution - a milestone in the next generation of a dynamic computing era."

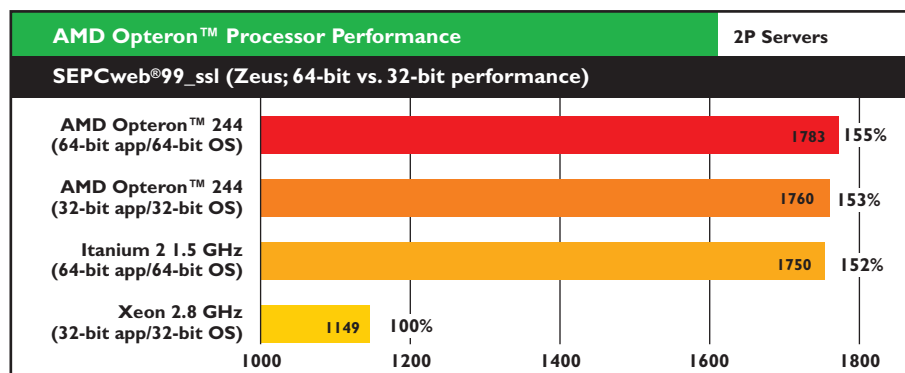
"The AMD Opteron processor provides a substantial performance increase and gives customers the option of migrating to a 64-bit computing environment at their desired pace," said Ben Williams, director, AMD's Server/Workstation Business Segment. "Combined with Think's customizable solutions, the AMD64 architecture offers exceptional flexibility, performance, and scalability."

For information on featured ThinkTank Q Series AMD Opteron processor-based solutions, please visit <http://www.thinkcp.com/products/Opteron.asp>

AMD, AMD Opteron and combinations thereof, are trademarks of Advanced Micro Devices, Inc. HyperTransport is a licensed trademark of the HyperTransport Technology Consortium. Other product and company names are for informational purposes only and may be trademarks of their respective companies.

Why choose Think Computer Products for your AMD Opteron™ Solutions? In addition to being an AMD Opteron™ and Athlon™ launch partner, Think Computer Products teams with the industry's leading prime contractors and specialty VARs in providing ISO 9002 quality, rapid fulfillment, custom-built, cost-effective solutions. Think Computer Products is well known among major prime contractors, specialty VARs, resellers and various government agencies. The company maintains a GSA Schedule for teaming with government resellers, and subcontracts through numerous other contract vehicles.

SPECweb®99\_ssl (Zeus; 64-bit vs. 32-bit performance) 2P Servers



SPEC and the benchmark name SPECweb are registered trademarks of the Standard Performance Evaluation Corporation. Competitive benchmark results stated above reflect results published on [www.spec.org](http://www.spec.org) as of Apr 16, 2003. SPEC scores for AMD Opteron processor based systems are under submission to SPEC organization. For the latest SPECweb benchmark results, visit <http://www.spec.org/web99ssl>. ©2003 AMD, Inc. All right reserved.



**TOSHIBA**



## StorCase Technology The First to Support Removable Serial ATA

**StorCase Technology** recently announced the release of the Serial ATA interface Data Express® removable hard drive enclosure for PCs, workstations and servers. The StorCase® Data Express DE110, has recently gained industry acceptance as a low-cost, point-to-point device interface that allows for smaller chassis design and provides improved throughput performance over traditional, Parallel ATA technologies.



The StorCase DE110 is the first removable drive enclosure for Serial ATA host interfaces to provide compatibility with both Serial and Parallel ATA drives. The DE110 incorporates a unique "Universal" receiving frame (patent pending), which allows the use of either its own Serial or Parallel ATA DE110 drive carrier. The 'Universal' receiving frame means that users can now take immediate advantage of low-cost Parallel ATA drive pricing, with easy system transition later to Serial ATA drives and their associated performance benefits.

StorCase Technology DE110 Performance Merits Award. Internal tests with our 'Universal' DE110 receiving frame and a Parallel ATA drive installed into a StoreCase Parallel ATA DE110 drive carrier demonstrated a performance improvement up to 70% over traditional Parallel ATA, and with a Serial ATA drive installed into the StoreCase Serial ATA DE110 carrier, a performance improvement of up to 159% over Parallel ATA was observed.

### Now Shipping – StorCase Technology SCSI Ultra320 Products

**SCSI Ultra 320**, the next step in SCSI evolution, provides a protocol that reduces overhead and improves system performance. Applications benefitting from the enhancements that Ultra320 offers includes those which push I/O bandwidth, such as audio/video and desktop publishing. With data transfer speeds of up to 320MB per second, drive cooling, power management and rotational vibration become important enclosure features that must be taken into consideration. The following StorCase products support Ultra320 and meet or exceed drive manufacturers' SCSI Ultra320 enclosure specifications:



Data Silo 1, 2 & 4-Bay

InfoStation 4, 9 & 12-Bay

©2002 H.Co. Computer Products, Inc. All rights reserved. Think Computer Products is a registered fictitious business name of H.Co Computer Products, Inc. H.Co. Computer Products, Think Computer Products, Think Memory Products, Think Storage Products, Think Perfect Pix, Think Networking Products, Think Computer Systems and Think BTO are trademarks of H.Co. Computer Products, Inc. All other trademarks mentioned herein are the property of their respective owners.

Think Computer Products • 16812 Hale Avenue • Irvine, California 92606 • Toll Free: (800) 726-2477 • Phone: (949) 833-3222  
 Fax: (949) 833-3389 • www.thinkcp.com • info@thinkcp.com Think Europe & International Office - Rudolf Straße 7,  
 38114 Braunschweig, Germany Toll-free 08000858306 • Phone (0531-53533) • Fax (0531-53531)

## Data Silo DS100

SCSI Ultra320 Model Numbers:

Description	Part# White/Black	I/O Connector	Power Supply(ies)
<b>1-BAY STEEL 5.25" HALF-HEIGHT</b>			
SCSI Wide Ultra320	S30A120 S30A121	VHDCI	(1) 40W/65Wp
<b>2-BAY STEEL 5.25" HALF-HEIGHT OR (1) FULL-HEIGHT</b>			
SCSI Wide Ultra320	S30A122 S30A123	VHDCI	(1) 40W/65Wp
<b>4-BAY STEEL 5.25" HALF-HEIGHT OR (2) FULL-HEIGHT</b>			
SCSI Wide Ultra320	S30A124 S30A125	VHDCI	(2) 40W/65Wp

## InfoStation

SCSI Ultra320 Model Numbers:

Description	Part#	Description	I/O Connector	Power Supplies
<b>4-BAY BACKPLANE</b>				
SCSI Wide Ultra320	S10A119	(1) I/O, No Repeater Black	(1) VHDCI	(1) 250W Swappable
SCSI Wide Ultra320	S10A119	(2) I/O, No Repeater Black	(1) VHDCI	(1) 250W Swappable
<b>9-BAY BACKPLANE</b>				
SCSI Wide Ultra320	S10A135	(1) I/O, No Repeater (2) 39 CFM Blowers in (1) Swappable Module Black	(1) VHDCI	(1) 450W Swappable

<b>9-BAY SINGLE HOST INTERFACE BACKPLANE</b>				
SCSI Wide Ultra320	S10A104	(1) I/O, No Repeater (4) 39 CFM Blowers in (2) Swappable Modules Black	(1) VHDCI	(2) 450W N+1
<b>9-BAY DUAL HOST INTERFACE BACKPLANE</b>				
SCSI Wide Ultra320	S10A105	(2) I/Os, No Repeater (4) 39 CFM Blowers in (2) Swappable Modules Black	(2) VHDCI	(2) 450W N+1
<b>9-BAY QUAD HOST INTERFACE BACKPLANE</b>				
SCSI Wide Ultra320	S10A106	(4) I/Os, No Repeater (4) 39 CFM Blowers in (2) Swappable Modules Black	(4) VHDCI	(2) 450W N+1
<b>12-BAY QUAD HOST BACKPLANE</b>				
SCSI Wide Ultra320	S10A149	3U U320 Rackmount for 3.5" LP Drives, (1) FH Bay, (2) I/Os (No Repeater), (2) 450W P.S./Blower, Black	(2) VHDCI	(2) 450W N+1

### Also On The StoreCase Hit Parade This Month.....

A variety of DE100 model numbers are available which support Ultra ATA/100 (including ATA/133) and versions that support SCSI Wide Ultra320 applications. Some DE100 carrier models support 80-pin single-connect (SCA) SCSI drive types. Options are available for an enhanced, bus-isolating "hot swap" capability (SCSI models) and/or a solenoid drive lock.

For more information on Think Computer Products please call **toll free (800) 726-2477** or visit us at [www.thinkcp.com](http://www.thinkcp.com)



## Think Computer Products – Latest Product Partners & Alliance



### Apple

Think Computer Products is now an authorized reseller of Apple Products for all of your Apple computing needs. iMac, eMac, Power Mac, PowerBook, iBook & iPod – yes, we have your Apple. Most of us at Think Computer Products were born and bred on IBM compatible PC platforms, but even for the PC “Wintel” die-hards we know there’s certain applications and environments where many would agree that Apple provides the best solutions. With that in mind, here’s a quick look at some of the hottest Apple Server offerings **available through your Think Computer Products representative.**



Xserve Server

### Xserve Cluster Configuration

Designed for the computational clusters and distributed applications, this Xserve configuration delivers high-density processing power – without the server features you won’t need in a cluster environment – for a price that’s easy to multiply across your deployment.



Xserve Cluster

### Xserve RAID

The elegantly-engineered companion to Xserve. Xserve RAID is a cutting-edge, self-contained storage solution that holds up to 14 hot-swappable Apple Drive Modules – a phenomenal 2.52 terabytes of data – in a rack-optimized storage enclosure.



Xserve RAID



### Texas Memory Systems – Solid State Memory

Texas Memory Systems is the industry leader in solid state disk (SSD) technology. Their non-volatile RAM drives eliminate I/O wait time in storage and accelerate application performance in any I/O or bandwidth intensive environment. RamSan solid state disks provide superior performance to any cached RAID solution, exhibit higher levels of reliability than conventional storage, and includes more high-availability features than competing SSDs.

©2002 H.Co. Computer Products, Inc. All rights reserved. Think Computer Products is a registered fictitious business name of H.Co. Computer Products, Inc. H.Co. Computer Products, Think Computer Products, Think Memory Products, Think Storage Products, Think Perfect Pix, Think Networking Products, Think Computer Systems and Think BTO are trademarks of H.Co. Computer Products, Inc. All other trademarks mentioned herein are the property of their respective owners.

Think Computer Products • 16812 Hale Avenue • Irvine, California 92606 • Toll Free: (800) 726-2477 • Phone: (949) 833-3222  
 Fax: (949) 833-3389 • www.thinkcp.com • info@thinkcp.com Think Europe & International Office - Rudolf Straße 7,  
 38114 Braunschweig, Germany Toll-free 08000858306 • Phone (0531-53533) • Fax (0531-53531)

## QLogic – Fibre Channel SAN Products

QLogic produces the host bus adapters (HBAs), fabric switches and management software that are the backbone of storage networks for most Global 2000 corporations. QLogic serves customers with solutions based on all storage network technologies including SCSI, Internet SCSI (iSCSI), InfiniBand and Fibre Channel.



### Topspin Communications, Inc.

The Topspin Switched Computing System is a programmable switching platform that consists of a switched multi-terabit interconnect and an intelligent control architecture. The high-bandwidth, low-latency interconnect is extremely adaptable. Whether attached via Ethernet, Fibre Channel, or InfiniBand, server, storage, and network elements can be seamlessly brought on line as needed to enable an unprecedented level of application scaling, rapid deployment, and resource consolidation.

The Topspin Switched Computing System delivers real and compelling benefits.

- Dramatically reduce total cost of ownership
- Rapidly deploy and scale resources on demand to match business and application requirements
- Better utilize existing infrastructure investments
- Improve application performance and availability
- Eliminate over-provisioning and waste



### TiGi Corporation

TiGi data-throughput accelerator products remove I/O bottlenecks and increase data response time by as much as 800%. With a unique open architecture design, TiGi products can be quickly configured to any server or storage system, enabling you to deliver a substantially better computing experience to users while adding years to the life of your current technology investments.



TiGiJet™

For more information on Think Computer Products please call **toll free (800) 726-2477** or visit us at **www.thinkcp.com**

