

Highlights

- Most Flexible Approach to Scaling Capacity
- Unprecedented Investment Protection

BlueArc introduces the Titan SiliconServer, designed to meet the requirements of today's sophisticated enterprise data centers with new levels of storage performance, scalability and reliability. Titan is the first storage solution that consolidates and manages up to 256 terabytes of data in a single storage pool.

Titan is built on the SiliconServer Architecture and offers enterprise-class management tools - including data migration, replication and anti-virus support. This customer-proven, hardware-implemented architecture maximizes data access and user loads with extremely low latency, resulting in increased productivity and significantly reduced cost of ownership.

Enterprise Storage To Maximize Investment Protection Productivity Acceleration

Titan enables thousands of clients to be served concurrently, while maintaining data access at dramatically higher rates than those found in traditional storage systems. Users working on even the largest data sets see dramatic improvements in information storage and retrieval, increasing productivity and delivering a solid return on investment. Titan's inherent ability to support primary, nearline, and archive storage within the same storage system enables customers to upgrade the system, utilizing the latest disk technology, when needed. Automatically storing data on the most appropriate storage dramatically reduces cost while maintaining access times consistent with application requirements. With Titan's dedicated non-intrusive backup and replication technology, users experience uninterrupted high-speed access to their data 24 hours a day, 7 days a week, 365 days a year. Productivity never suffers to accommodate a backup or replication window.



The Industry's Most Flexible Approach to Scaling Capacity

Titan is designed to meet any enterprise storage requirements, supporting massive 5Gbps performance at the entry level, with the ability to scale to 20Gbps of data throughput with a simple modular upgrade. As data and user populations grow, or as workstation and application server performance accelerates, Titan will adapt to meet these increased demands. Customers can add storage at any time to meet new application or business needs and consolidate a company's disparate storage into a single point of management, without incurring downtime. Titan's Silicon File System supports Virtual Volumes up to 256TB - logical containers that manage data capacity and can dynamically expand and contract to meet changing allocation requirements.

Business Continuation

Titan is designed for the heart of the enterprise, with no single point of failure. All aspects of the system's modular architecture deliver maximum availability during upgrades or maintenance. Additionally, BlueArc's Accelerated Data Copy (ADC) technology provides hardware-accelerated local and remote replication; together with fast restore options, providing instant data availability even during times of crisis. Should performance requirements grow beyond a single Titan system, the system's



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native clustering capability supports multiple Titans connected into a single file system. The data managed by each Titan is available to each clustered system, allowing for seamless fail-over and continued data access regardless of an enterprise's maintenance or disaster recovery requirements.

Maximize Storage Utilization

BlueArc's Multi-Tiered Storage allows enterprises to match appropriate storage media to differing application requirements, achieving the optimal levels of performance, capacity and cost without being required to manage and maintain multiple storage systems. Combined with the accelerated productivity achieved from server's underlying SiliconServer Architecture, Titan delivers a fast return on investment.

Unprecedented Investment Protection

In today's environments, as new server and networking technology is deployed within the enterprise, storage systems must be upgraded to meet the needs of the IT infrastructure. The vast majority of storage system upgrades require an entirely new product installation - a "fork lift" upgrade. Titan eliminates these painful hardware replacement costs, delivering a modular, enterprise storage server with maximum flexibility to upgrade server modules without replacing the entire storage system, offering the greatest return on investment in storage.

Network Interface Module (NIM)

Titan's NIM module provides the networking and management interfaces and carries out TCP, UDP and IP processing, in hardware. This module has four media-configurable Gigabit Ethernet interfaces, each configurable to support IEEE802.3ad link aggregation. All four of the ports accept and transmit both standard and jumbo Ethernet frames. The NIM Module also supports four dedicated 10/100Mbps Ethernet interfaces and 2 RS-232 serial interfaces for management. Management is functionally separated from the prime data paths.

File System Modules (FSA and FSB)

Titan's Silicon File System modules combine to carry out protocol processing (including CIFS, NFS, iSCSI and NDMP) and all aspects of file system operations in hardware. The hardware execution of file system operations is key to delivering the throughput and low latency offered by Titan. Due to this hardware acceleration, directory searches and file lookups are far more efficient and less time consuming than traditional network storage systems, allowing data to be returned to the client quicker, and increasing productivity. The FSA module also implements battery-backed and mirrored NVRAM ensuring no data will be lost in the event of power failure. The FSB module is responsible for managing the unique SiliconStack at the heart of Titan's Silicon File System.



Storage Interface Module (SIM)

Titan's SIM module is responsible for disk and storage management as well as the high-speed cluster interconnection to other Titan systems. The SIM also supports a very large data cache, which provides very rapid access to commonly used data. As is the case throughout Titan's design, all data movement and management is carried out in dedicated hardware specifically designed for the task.



See Spec Sheet or www.caeneng.com for full specifications.

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