SGI® UV™ 300H with EMC Storage
SAP HANA® Tailored Datacenter Integration (TDI)

SGI® UV™ 300H

SAP® Certified
Hardware for SAP HANA®

Run Your Business in Real-time at Near Limitless Scale with Mission-Critical Reliability

The ability to combine database, data processing, and application platform capabilities in-memory with the SAP HANA® platform is truly game-changing. Imagine if your operations, financial, research, or marketing teams could operate in real time. Now imagine leveraging SAP HANA® in your enterprise at near limitless scale with mission-critical reliability. SGI® is making this possible.

Converging transactional and analytic workloads often warrants a *single-node* system for SAP HANA® to meet performance objectives. A single-node system provides significant advantages to gain the business breakthroughs of new SAP® S/4HANA. Performance advantages also extend to heavy analytics, and when consolidating applications and IT infrastructure. Furthermore, single-node systems alleviate administrative complexity as well as the difficulty providing high availability (HA) that clusters can pose for large environments.

Developed by SGI®, the trusted leader in high performance computing, SGI® UV™ 300H is a model of the SGI UV 300 supercomputer designed for large or growing SAP HANA environments. Currently SAP-certified as a 4-, 8-, 12*-, 16*-, or 20*- socket single-node system with up to 15TBs of in-memory computing capacity, UV 300H is an ideal future-ready system for SAP HANA Tailored Datacenter Integration (TDI), and coupled with existing EMC storage, enables large and growing enterprises to achieve real-time operations and optimize ROI.

*under controlled availability for >8 sockets and >6TBs

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Leverage the full power of SAP HANA in large and growing enterprises

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Expand SAP HANA with single-node simplicity

Capitalize on proven, highly reliable SGI technology

Optimize ROI with Tailored Datacenter Integration

Using a unique scale-up, single-node architecture with breakthrough coherent shared memory, SGI UV 300H enables running mission-critical applications on SAP HANA in large and growing environments including SAP Business Suite, SAP Bank Analyzer, SAP S/4HANA Finance, and other SAP S/4HANA applications. It provides the high performance necessary to combine OLTP and OLAP workloads and eliminate the time-consuming extract, transform, and load process to unlock information value in real-time. You can perform very complex joins and run multiple analytic engines simultaneously to include text, geo-spatial, and live data streaming. And you can consolidate applications and infrastructure, while also eliminating silos.

The result is timely insight across your organization to make faster, smarter decisions, accelerate innovation, lower costs, and gain competitive advantage. Returns are dramatic, spanning private and public domains:
- Identify customer behavior and buying trends as they occur, on demand
- Manage supply chain, inventories, and staffing resources with greater precision
- Monitor financial conditions in real-time and save millions eliminating reconciliation
- Identify security threats, attacks on IT systems, and fraud before doing harm
- Analyze clinical data quicker and with greater accuracy to improve patient care
- Reduce government waste and abuse with broader impact

When your core business processes run in real time, the possibilities for business transformation are endless.

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The single-node architecture of SGI UV 300H allows enterprises to run applications on SAP HANA free from the overhead of clustered appliances. There are no cluster nodes, cluster network, or storage area network to configure and administer. And there's no need for node segmentation or re-balancing I/O when increasing the size of the SGI system, as performance scales near linearly and automatically.

As the utilization and value of real-time analytics with SAP HANA expands throughout your global enterprise, 24x7 availability may increasingly become a requirement.

But achieving this level of uptime with clustered appliances requires special attention due to their native complexity. SGI UV 300H helps maintain application service levels and avoid costly downtime by providing high availability with simplified administration. Using local and remote single-node SGI systems, IT departments can reliably protect against logical, system, and site failures, as well as fully recover critical applications and data warehouse operations in seconds, resulting in round-the-clock application access and protection.

SGI is an SAP Pinnacle Awards 2015 Finalist in the Platform Co-Innovation Partner of the Year category.

SAP Pinnacle Awards 2015 Finalist

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Featuring Intel® Xeon® E7 8890 v2 15-core processors and preconfigured with your choice of SUSE® Linux Enterprise Server or Red Hat Enterprise Linux for SAP HANA®, SGI UV 300H leverages 7th generation SGI NUMAlink technology and in-memory computing expertise spanning more than 20 years.

Utilizing a unique single-node architecture that scales up seamlessly in 4-socket chassis increments, the system is currently certified by SAP under general availability in 4- or 8-socket configurations with up to 6TB of shared memory, and under controlled availability in 12-, 16-, or 20-socket configurations with up to 15TB of shared memory. Pending further certification, the system's future-ready architecture scales to 32 sockets and 24TB of shared memory as a single node.

Built for mission-critical applications, SGI UV 300H is also equipped with high fault-tolerance and robust reliability, availability and serviceability (RAS) features to help ensure continuous operations. Single-node simplicity also extends to High Availability/Disaster Recovery deployments with local automated system failover and remote system replication to achieve five nines application availability.

>100

SGI patents for
in-memory computing

Optimize ROI with SAP HANA Tailored Datacenter Integration

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Optimize ROI with Tailored Datacenter Integration

Take advantage of the SAP HANA Tailored Datacenter Integration (TDI) program and achieve greater ROI by leveraging your EMC storage platforms to protect log files and data.

EMC, the #1 storage platform for SAP, gives customers the flexibility to choose among several best-in-class offerings certified by SAP − EMC VNX, EMC VMAX, EMC XtremIO, and EMC VPLEX.

With the flexibility of SAP HANA TDI you can maintain existing data center standards and procedures, and further capitalize on EMC's proven solutions and expertise. You can also augment data protection, HA, and DR processes with EMC's industry leading data management capabilities.

SGI and EMC jointly test SAP HANA solutions at SAP headquarters in Walldorf, Germany and jointly produce an SGI UV 300H TDI Configuration Best Practices Guide. Like SGI, EMC also provides secure and proactive remote services 24x7 to help resolve issues quickly and without application interruption.

EMC²

65% of the Global 1000 and 87% of the Global 100 rely on EMC storage

Unleash the power of SAP HANA in your business

Unleash the power of in-memory computing for your business

Building on SGI's proven in-memory computing technology and scale-up architecture, SGI UV 300H enables large and growing enterprises to leverage the power of SAP HANA for mission-critical applications and advanced analytics that require single-node systems, and to reduce overhead and raise service levels for cluster-supported environments that become a struggle. With the flexibility of SAP HANA TDI, enterprises can also maximize IT resources and lower costs using EMC storage investments.

It's now possible to:
• Achieve real-time business in large enterprises
• Run critical applications on SAP HANA

including SAP Business Suite, SAP Bank Analyzer, SAP S/4HANA Finance, and other SAP S/4HANA applications with future-ready scalability
• Run multiple analytic engines and perform highly complex joins
• Run SAP Business Warehouse powered by SAP HANA free from the complexity and overhead of clusters
• Expand view, consolidate applications and eliminate silos
• Achieve greater insight, accelerate innovation and gain competitive advantage

Real-time insight leads to better-informed decisions for achieving business objectives.

Summary

Want to leverage SAP HANA® across your large or growing enterprise with optimum ROI? You can with SGI UV 300H and EMC storage. And by simply adding sockets and memory, SGI's industry-leading single-node system scales up to meet future demands and provide unparalleled in-memory computing capacity, with low administrative overhead and high reliability.

Objectives

- Achieve real-time operations with SAP HANA across the enterprise
- Run mission-critical SAP applications and/or analytic-intensive apps on SAP HANA without limits
- Alleviate the complexity of clusters to reduce OpEx and provide HA

Solution

- SGI UV 300H scales up as a single-node system with near limitless capacity
- Currently SAP-certified at 4, 8, 12*, 16*, and 20* sockets with up to 15TB of coherent shared memory (*controlled availability for >8 sockets and >6TBs)
- Future-ready architecture scales up seamlessly; never outgrow
- SAP HANA TDI enables use of EMC storage for optimum ROI
- Protect and recover critical applications in seconds in event of failure or disaster

Benefits

- Unlock information value in real-time across large enterprise
- Achieve greater insight. Gain competitive advantage
- Maximize IT resources and lower costs

Learn more

To find out more, call your SGI representative today at 1-800-800-7441 or visit www.sgi.com/saphana.