SOLUTIONS BRIEF

SUPERMICRO® INTEL® SELECT SOLUTIONS FOR VMWARE VSAN

EXECUTIVE SUMMARY

Enterprise Data Centers are experiencing demanding workloads that put stress on their infrastructure. In order to meet critical business objectives, IT teams need to look for new ways to transform their data centers to achieve optimal performance. Unfortunately, IT teams do not always have the time or resources to evaluate, select and purchase the necessary hardware and software components.

To meet this challenge, Supermicro, a global data center solution provider, has partnered with Intel to offer a solution that addresses these customer pain points. The solution is based on the Ultra SuperServer System which belongs to the well accomplished flagship line of SuperServers. This Ultra SuperServer Platform provides the critical building block foundation base needed for uncompromised compute and storage performance demanded by the hyper-converged and next generation software defined data center environments.

SUPERMICRO® *- October 2019*

Supermicro 2 Socket vSAN Ready node (SYS-1029U-TN10RT)

- **Processors:**
  Dual Socket 2nd generation Intel® Xeon® Scalable processors- Gold 6230

- **Memory:**
  12 x 32GB 2666 MHz DDR4 DIMM- 384GB

- **Storage:**
  Cache Tier- 2x 375GB Intel® Optane™ SSD DC P4800X Series with NVMe

- **Capcity Tier-**
  6 X 8TB Intel® SSD DC P4610 Series with NVMe

- **Data Network:**
  Dual 25Gbe SFP28 based on Intel® Ethernet Controller XXV710-AM2 25GbE controller

HYPER CONVERGENCE SOLUTION FOR ENTERPRISE AND SMBS

Supermicro's Intel® Select Solutions for VMware vSAN is certified for VMware vSAN ReadyNode™ and tightly specified by Intel® and VMware® to deliver out-of-the-box high performance. IT teams can be rest assured that their solutions are already verified for balance and optimized performance – from the hardware up through the firmware stack to the VMware vSAN™ software so they can get right to work meeting the SLA's of their applications rather than wading through multiple component options or conducting extensive system level testing prior to deployment.

In addition to fast load times for HANA database, Intel® Optane® DC persistent memory delivers an optimized balance between persistence and performance at a lower cost per Gigabyte than DRAM. For large in-memory deployments, the use of Intel Optane DC persistent memory can dramatically lower the initial acquisition cost of your SAP HANA hardware. Intel Optane DC persistent memory is not only lower cost than DRAM, but is also available in larger sizes, up to 512GB per unit. The combination of DRAM plus Intel Optane DC persistent memory allows for much larger SAP HANA deployments, per socket, than use of traditional DDR memory alone.

BENEFIT OF SOLUTION

- Delivers high performance that is optimized to a specific threshold across compute, storage and network

- Reduces the amount of time and money spent on research, configuration and testing

- Passes rigorous VMware vSAN ReadyNode™ certification

- Customizable components for greater performance and capacity

- Expedites the time to deployment

ABOUT SUPER MICRO COMPUTER, INC.

Supermicro® (NASDAQ: SMCI), the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced server Building Block Solutions® for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green®" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

www.supermicro.com

ABOUT INTEL SELECT SOLUTIONS

Intel is driving the next wave of data center innovation with Intel Select Solutions, based on Intel technologies. Intel Select Solutions are verified solutions configurations that are aimed to speed selection and deployment of data center and communications network infrastructure. The solutions are developed from deep Intel experience with industry solution providers, as well as extensive collaboration with the world's leading data center and service providers.

www.intel.com/selectsolutions