Data Sheet
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NEC High-Performance Appliance for SAP HANA™



Express5800

Key Features

- SAP HANA™ certified appliance for faster deployment
- High fault resiliency by predictive failure analysis and redundant resources
- Mission Critical RAS features utilizing EXPRESSSCOPE® Engine SP3
- Operation-able in 40°C (104°F)

Overview

The appliance is architected using the NEC Express5800/A2040c scalable enterprise server, NEC's 6th generation of Intel Enterprise Architecture that brings NEC's super computer and mainframe expertise to the economical package of x86 systems. This quad-socket 4U rack server with Intel® Xeon® Processor E7 v3 Family offers the highest level of performance, availability, and scalability, making it the ideal platform for mission critical and database applications.

Features

Exceptional Performance

NEC Express5800/A2040c is a scale-up server designed with a massive resource pool to support compute-intensive and memory-hungry applications in mission critical and virtualized environments, supporting up to 4 processors / 72 cores / 144 threads, 4.0 terabyte of memory and 16 PCIe 3.0 slots.

High Availability

NEC Express5800/A2040c offers industry-leading reliability, availability, and serviceability (RAS) features required to support business-critical workloads for enterprise computing.

Manageability

NEC Express5800/A2040c, armed with the NEC EXPRESSSCOPE® Engine SP3, a specially designed baseboard management controller, provides extensive remote management capabilities.

SAP® Certified
Hardware for SAP HANA®

Appliance Model Line-up

		Scale-up			
		128GB~512GB	1TB	256GB~1TB	2TB
Server		Express5800 / A2040c			
CPU		2 (36 cores) (E7-8890 v3, E7-8880 v3)		4 (72 cores) (E7-8890 v3, E7-8880 v3)	
Memory Capacity		128GB, 256GB, 512GB	1TB	256GB, 512GB, 1TB	2TB
File System		XFS			
Storage		Data: 3TB from 24 x 600GB SAS 10krpm, RAID 10 Log: 1TB from 24 x 600GB SAS 10krpm, RAID 10			-
		Data: 6TB from 24 x 600GB SAS 10krpm, RAID10 Log: 1TB from 7 x 900GB SAS 10krpm, RAID5			
OS		Red Hat Enterprise Linux for SAP HANA SUSE Linux Enterprise Server for SAP Applications			
Server Management		EXPRESSSCOPE® Engine SP3 & NEC ESMPRO/Server Manager			
Use	BW on HANA, DataMart	Y	N	Y	Y (with SAP HANA SPS 11 and later)
	Business Suite on HANA	Y	Y	Y	Y

Key Highlights of Express5800/A2040c : Best Fit for Dependable On-premise/Cloud Platform

Realizing high performance, high availability and high operation-ability by leveraging the latest Intel® Xeon® E7 v3 Processor Family CPU

High Scalability

- Max. 4 (72 cores/144 threads) Intel® Xeon® Processor E7 v3 family CPU
- Max. 4TB memory with 64 x64GB DIMM
- Max. 16 slots of PCI-Express 3.0

High Fault Resiliency

- Fully utilizes Intel® Xeon® Processor E7 v3 family CPU advanced RAS features
  - •MCA Recovery, Memory Chip RAS (DDDC etc.,), Memory patrol and scrubbing,
  - •PCIe Live Error Recovery
- Predictive Failure Analysis & De-allocation of CPU resource and ECC memory (Red Hat)
- Intelligent Fault management (analysis, reconfiguration) with Service Processor
- Redundant system resource
  - •Redundant Clock source, Core IO logic and Service Processor..

High Operation ability

- CPU core capacity on demand feature for flexible resource optimization
- I/O card on-line addition
- 40°C HTA supported
- Superior power efficiency



For further information please contact your local NEC representative or:

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