

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/A2040d 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 v4 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/A2040d 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 / 96 cores / 192 threads, 4.0 terabyte of memory and 16 PCIe 3.0 slots.

High Availability

NEC Express5800/A2040d offers industry-leading reliability, availability, and serviceability (RAS) features required to support business-critical workloads for enterprise computing.

Manageability

NEC Express5800/A2040d, 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	2TB	256GB - 1TB	2TB	4TB	
Server	Express5800/A2040d						
CPU	2 (48/44 cores)			4 (96/88 cores)			
	E7-8890 v4 E7-8880 v4		E7-8890 v4	E7-8890 v4 E7-8880 v4		E7-8890 v4	
MEM Capacity	128GB, 256GB, 512GB	1TB	2TB	256GB, 512GB, 1TB	2TB	4TB	
File System	XFS						
Storage	Log volume & Data volume: 24 x 600GB SAS 10krpm, Software RAID 0 (12 x RAID 1 (1+1))		-	Log volume & Data volume: 24 x 600GB SAS 10krpm, Software RAID 0 (12 x RAID 1 (1+1))		-	
	Data Volume: 24 x 600GB, SAS HDD 10krpm, Software RAID 0 (12 x RAID 1 (1+1)) Log Volume: pool from 6 x 900GB, SAS HDD 10krpm, RAID5(5+P)					-	
	Data Volume: pool from 24 x 1.2TB, SAS HDD 10krpm, Software RAID 0 (12 x RAID 1 (1+1)) Log Volume: pool from 6 x 1.2TB, SAS HDD 10krpm, RAID5(5+P)						
OS	Red Hat Enterprise Linux for SAP HANA SUSE Linux Enterprise Server for SAP Applications						
Server Mgmt.	EXPRESSSCOPE® Engine & NEC ESM/ServerAgentService						
Use	BWoH&DM	Y	N	N	Y	Y (with SAP HANA SPS11 and later)	N
	SoH	Y	Y	Y (with SAP HANA SPS12 and later)	Y	Y	Y (with SAP HANA SPS12 and later)

BWoH SAP BW powered by SAP HANA
DM DataMart(real-time analytics and reporting)
SoH SAP Business Suite powered by SAP HANA, S/4HANA

Key Highlights of Express5800/A2040d : Best Fit for Dependable On-premise/Cloud Platform

Realizing high performance, high availability and high operation-ability by leveraging the latest Intel® Xeon® E7 v4 Processor Family CPU

High Scalability	High Fault Resiliency	High Operation ability
<ul style="list-style-type: none"> Max. 4 (96 cores/192 threads) Intel® Xeon® Processor E7 v4 family CPU Max. 4TB memory with 64 x64GB DIMM Max. 16 slots of PCI-Express 3.0 	<ul style="list-style-type: none"> Fully utilizes Intel® Xeon® Processor E7 v4 family CPU advanced RAS features <ul style="list-style-type: none"> •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 <ul style="list-style-type: none"> •Redundant Clock source, Core IO logic and Service Processor.. 	<ul style="list-style-type: none"> 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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