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.

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.

Manageability
NEC Express5800/A2040d, armed with the NEC EXPRESSSCOPE® Engine SP3, a specially designed baseboard management controller, provides extensive remote management capabilities.

High Availability
NEC Express5800/A2040d offers industry-leading reliability, availability, and serviceability (RAS) features required to support business-critical workloads for enterprise computing.
## NEC High-Performance Appliance for SAP HANA™

### Appliance Model Line-up

<table>
<thead>
<tr>
<th>Scale-up</th>
<th>128GB - 512GB</th>
<th>1TB</th>
<th>2TB</th>
<th>256GB - 1TB</th>
<th>2TB</th>
<th>4TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>Express5800/A2040d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>E7-8890 v4, E7-8880 v4</td>
<td>E7-8890 v4</td>
<td>E7-8890 v4</td>
<td>E7-8880 v4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEM Capacity</td>
<td>128GB, 256GB, 512GB</td>
<td>1TB</td>
<td>2TB</td>
<td>256GB, 512GB, 1TB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>File System</td>
<td>XFS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Data Volume</td>
<td>24 x 600GB SAS 10krpm, Software RAID 0 (12 x RAID 1 (1+1))</td>
<td>-</td>
<td>Log volume &amp; Data volume: 24 x 600GB SAS 10krpm, Software RAID 0 (12 x RAID 1 (1+1))</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>OS</td>
<td>Red Hat Enterprise Linux for SAP HANA</td>
<td>SUSE Linux Enterprise Server for SAP Applications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Server Mgmt.</td>
<td>EXPRESSSCOPE® Engine &amp; NEC ESMPRO/ServerAgentService</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 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
- 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

### High Fault Resiliency
- Fully utilizes Intel® Xeon® Processor E7 v4 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℃ HTA supported
- Superior power efficiency

---

For further information please contact your local NEC representative or:

**Corporate Headquarters (Japan)**
NEC Corporation  
www.nec.com

**North America (USA, Canada)**
NEC Corporation of America  
www.necam.com

**APAC (South Asia, South East Asia, Oceania)**
NEC Asia Pacific Pte. Ltd.  
sg.nec.com

**EMEA (Europe, Middle East, Africa)**
NEC Enterprise Solutions  
www.nec-enterprise.com

© 2016 NEC Corporation. All rights reserved. NEC, NEC logo are trademarks or registered trademarks of NEC Corporation that may be registered in Japan and other jurisdictions. All trademarks identified with ® or ™ are registered trademarks or trademarks respectively. The information and specifications contained in this publication are subject to change without prior notice. NEC shall not be responsible for technical or editorial errors. Models may vary for each country. Please refer to your local NEC representatives for further details.

Cat.No. E11-16120002E