The Express5800/R120g-2E, a flexible dual-socket 2U rack server, offers the right balance of performance, scalability, and manageability in a compact chassis. Supporting the new high-performance and energy efficient Intel® Xeon® E5-2600 v4 product family, high speed DDR4-2400 memory, and up to 32 TB of storage capacity, the R120g-2E is ideal for virtualization solutions, database servers, and consolidation of business-critical application servers.

### Overview

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### Features

#### High Performance and Capability

The Express5800/R120g-2E is designed to meet the essential requirements of data centers. With up to two 14-core Intel® Xeon® E5-2600 v4 processors, 16 DIMM slots for DDR4-2400 memory, 16 hot-plug drive bays, integrated remote management capability, and NEC’s power management technologies, the R120g-2E delivers an optimal balance of performance and features for corporate and public data centers.

#### Meet Growing Business Needs

The Express5800/R120g-2E offers enterprise-class flexibility, expandability, and reliability to meet your business needs. A choice of RAID controllers enables you to select the appropriate controller based on your performance and feature requirements. With four PCIe Gen3 and one PCIe Gen2 slots, two integrated gigabit NICs, and up to 32 TB of drive capacity, the R120f-2E offers flexible network connectivity and storage expandability. The redundant storage, fan, and power supply options support business continuity.

### Key Features

- Support for the latest Intel® Xeon® E5-2600 v4 product family
- Up to 1 TB of high speed DDR4 memory
- 5 PCIe slots for various needs and future expansion
- Agent-less management with improved EXPRESSSCOPE Engine 3
- Wide range of operating ambient temperature from 5 to 45°C (41 to 113°F)

### Cost Savings Through Efficiency

NEC’s innovative green design concepts and industry leading fan control technology allows the R120g-2E to operate at temperatures up to 45°C (113°F), therefore reducing cooling requirements. In addition, dual hot plug power supplies with cold-standby mode enable further energy savings. Manage easy setup and deployment with NEC EXPRESSBUILDER and leverage easy management with NEC’s EXPRESSSCOPE Engine 3 together with NEC ESMPRO. The extensive remote management capabilities untangle the complexities in operating and maintaining the server to alleviate the burden of administrative tasks.
# Hardware Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Express5800/R120g-2E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor / height</td>
<td>2U Rack</td>
</tr>
<tr>
<td>Number of processors</td>
<td>1 to 2</td>
</tr>
</tbody>
</table>
| Processors | Intel® Xeon® Processor E5-2603 v4 (1.70 GHz/6-core/15 MB)  
Intel® Xeon® Processor E5-2609 v4 (1.70 GHz/8-core/20 MB)  
Intel® Xeon® Processor E5-2620 v4 (2.10 GHz/8-core/20 MB)  
Intel® Xeon® Processor E5-2623 v4 (2.60 GHz/4-core/10 MB)  
Intel® Xeon® Processor E5-2630 v4 (2.20 GHz/10-core/25 MB)  
Intel® Xeon® Processor E5-2650 v4 (2.20 GHz/12-core/30 MB)  
Intel® Xeon® Processor E5-2660 v4 (2.00 GHz/14-core/35 MB)  
Intel® Xeon® Processor E5-2690 v4 (2.60 GHz /14-core/35 MB) |
| Memory type | DDR4-2400 ECC RDIMM |
| Memory slots | 16 |
| Maximum memory | 1 TB |
| Storage type | Hot plug 2.5-inch SAS HDD  
Hot plug 2.5-inch SATA HDD  
Hot plug 2.5-inch SATA SSD |
| Maximum internal drive bays | 8 to 16 with optional drive cage |
| Maximum internal storage | 32 TB |
| Removable media | 1 bay for optical drive  
1 bay for internal removable drive |
| Expansion slots | 2 PCIe x16 Gen 3  
2 PCIe x8 Gen 3  
1 PCIe x4 Gen 2 |
| Video (VRAM) | Integrated in the server management controller (32 MB) |
| Network | 2 1000BASE-T plus 1 1000BASE-T for management |
| Redundant power supply | Optional, hot plug |
| Redundant cooling fan | Optional, hot plug |
| Power supplies | 460 Watt, 800 Watt  
100-240 VAC ± 10% 50 / 60 Hz ± 3 Hz |
| Systems management | EXPRESSSCOPE Engine 3 |
| Interface | 2 VGA, 1 to 2 serial, 4 USB 3.0 (plus 1 internal), 2 USB 2.0 (plus 1 internal), 2 LAN, 1 management LAN |
| Dimensions (W x D x H) and maximum weight | 448.0 x 683.8 x 87.2 mm / 17.6 x 26.9 x 3.4 in  
27 kg / 59.52 lbs. |
| Temperature and humidity conditions (non-condensing) | Operating: 5 to 40 °C / 41 to 104 °F or 5 to 45°C / 41 to 113 °F (Optional), 20 to 80%  
Non-operating: -10 to 55 °C / 14 to 131 °F, 20 to 80% |
| Operating systems and virtualization software | Microsoft® Windows Server® 2008 R2 Standard / Enterprise  
Microsoft® Windows Server® 2012 Standard / Datacenter  
Microsoft® Windows Server® 2012 R2 Standard / Datacenter  
Red Hat® Enterprise Linux® 6  
Red Hat® Enterprise Linux® 7  
VMware® ESXi™ 5.5  
VMware® ESXi™ 6 |

Note: For Linux support, visit the NEC website at http://www.nec.com/en/global/prod/express/linux/, or contact your sales representative