Data Sheet
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\Orchestrating a brighter world

The flexible blade server

NEC Express5800/B120g-h



Key Features

- Support for the latest Intel® Xeon E5-2600 v4 product family
- Up to 1152 GB of high speed DDR4 memory
- Agent-less management with improved EXPRESSCOPE Engine 3
- Wide range of operating ambient temperature from 5 to 40°C (41 to 104°F)

Overview

The Express5800/B120g-h, a high-density 2-socket server blade, offers superior performance, reliability and availability. Supporting the new high-performance and energy efficient Intel® Xeon® E5- 2600 v4 product family, high speed DDR4-2400 memory and flexible storage connectivity capability, the B120g-h is ideal for virtualization, database and consolidation of business-critical applications with centralized administration and autonomous system operation.

Features

Distinguished Performance and Capability

Featuring the Intel® Xeon® Processor E5-2600 v4 product family with up to 22-core and 55 MB last level cache, up to 1152 GB memory and 2400 MHz speeds, and boot from SAN capabilities, the B120g-h server blade is perfect for consolidating business-critical applications and database server environments in medium to large enterprise data centers.

Flexibility for Various Workloads

The B120g-h offers the enterprise-class flexibility required to fit various workloads. Flexible Integrated NIC technology enables you to choose the appropriate LAN on Motherboard (LOM) based on your network environment. Additionally, with two PCIe Gen3 mezzanine slots, the B120g-h offers flexible connectivity to various network environments. Flexible storage technology enables optimal system configurations for direct attached storage and storage area network environments.

Simplified Manageability

The B120g-h supports agent-less management capability with EXPRESSCOPE Engine3 that offers extensive remote management and control capability in a secure, communications environment. Simplified system operation can be realized with SigmaSystemCenter, NEC's integrated system management software that enables unified system operations including physical and virtual servers, and autonomous system operations based on pre-defined policy rules.

Hardware Specifications

MODEL	Express5800/B120g-h
Form factor / height	Half-height blade
Number of processors	1 to 2
Processors	Intel® Xeon® Processor E5-2620 v4 (2.10 GHz/8-core/20 MB) Intel® Xeon® Processor E5-2650 v4 (2.20 GHz/12-core/30 MB) Intel® Xeon® Processor E5-2667 v4 (3.20 GHz/8-core/25 MB) Intel® Xeon® Processor E5-2690 v4 (2.60 GHz /14-core/35 MB) Intel® Xeon® Processor E5-2698 v4 (2.20 GHz/20-core/50 MB) Intel® Xeon® Processor E5-2699 v4 (2.20 GHz/22-core/55 MB)
Memory type	DDR4-2400 ECC RDIMM
Memory slots	18
Maximum memory	1152 GB
Storage type	Non-hot plug 2.5-inch SATA SSD
Maximum internal drive bays	2
Maximum internal storage	800 GB
Expansion slots	1 Type I Mezzanine 1 Type II Mezzanine 1 PCIe for a flexible integrated NIC
Video (VRAM)	Integrated in the server management controller (32 MB)
Systems management	EXPRESSSCOPE Engine 3
Interface	1 SUV
Enclosure	Blade Enclosure M Blade Enclosure H v2
Temperature and humidity conditions (non-condensing)	Operating: 5 to 40 °C */ 41 to 104 °F *, 20 to 80% Non-operating: -10 to 55 °C/ 14 to 131 °F , 20 to 80% * In specific configurations, the operable ambient temperature is up to 35°C/95°F
Operating systems and virtualization software	Microsoft® Windows Server® 2012 R2 Standard / Datacenter Red Hat® Enterprise Linux® 7 VMware® ESXi™ 5.5 VMware® ESXi™ 6

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