

Optimized for performance and power efficiency, this general-purpose 2U, dual-processor server supports memory-intensive converged application solutions with large local storage needs. It delivers highly scalable memory capacity for outstanding performance in an energy-smart, affordable and easy-to-use solution that lowers cost and improves availability.

**DATASHEET**

## Rack Optimized Server for Solutions, 2U Single Node

### High Performance and Scalable Memory

With support for the latest Intel Xeon processors and a highly scalable memory architecture, this 2U, two-socket server delivers exceptional performance for demanding applications.

The Intel Xeon Processor E5 family is designed to address the growing demands on IT infrastructure. One or two multicore CPUs power the server. Twenty-four slots for high-speed, DDR4 ECC memory provide expansive shared memory to accommodate memory-intensive applications, such as Hitachi Hyper Scale-Out Platform.

### Outstanding Capacity Expansion

With up to 12 drive bays in the front of the chassis, this rackmount server delivers the storage capacity and I/O performance to meet demanding requirements. Hot-pluggable 2.5-inch serial-attached SCSI (SAS) or serial-ATA (SATA) drives provide local storage, and both hard disk drives (HDDs) and solid-state drives (SSDs) are supported. This server can be flexibly configured to address both I/O performance and capacity requirements.

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In the rear of the chassis, two hot-pluggable 2.5-inch SSDs or 2.5-inch SATA or SAS HDDs can be added for use as boot drives or additional storage capacity.

### Flexible Networking and I/O

Two integrated 10 gigabit Ethernet ports (RJ45) are included in the base configuration. A selection of I/O expansion and controller modules is available to address many application needs, making the platform a versatile foundation for a wide range of solutions and appliances. Five PCIe 3.0 slots enable additional I/O options and support for almost any type of network.

### Enterprise-Class RAS Features

This server provides reliability, availability and serviceability (RAS) features. With an enhanced thermal design, the server can operate at higher ambient temperatures, potentially reducing costs associated with data center cooling. Redundant power supplies and optional redundant drive configurations provide a resilient architecture ideal for business-critical applications. Dual-rotor fan design ensures optimal cooling after a fan failure to ensure that applications keep running without disruptions.

### Unprecedented Adaptability

The server integrates network, storage and compute resources into a powerful, space-efficient and flexible solution. It delivers maximum efficiency, high performance, greater expandability and excellent reliability, all in a compact, 2U rack footprint.

The server sustains high performance and has reduced data center cooling requirements. The innovative design allows the performance and throughput of Intel Xeon processors to be fully exploited by high-memory and high-I/O applications.

### Embedded Server Management

The server includes a baseboard management controller that allows the system's operating status and power control to be managed remotely, independent of the operating status or workload. A dedicated management interface enables secure remote access through a LAN connection and provides an easy-to-use Web console interface for remote initialization, management and configuration.

Embedded remote management helps IT administrators get more done faster when doing essential tasks, and reduces or eliminates the need to physically visit the server, even when the server is nonoperational.

**TABLE 1. RACK OPTIMIZED SERVER FOR SOLUTIONS, 2U SINGLE NODE**

<b>Form factor (height)</b>	2U
<b>Processor (maximum)</b>	Intel Xeon processor E5-2600 v3 series processors
<b>Number of processors (standard, maximum)</b>	1, 2
<b>Memory (maximum)</b>	(24) 2133 MHz DDR4 RDIMMs
<b>Disk bays</b>	Twelve 3.5" hard disk drives (HDDs) or solid-state drives (SSDs) Two optional 2.5" serial ATA (SATA) or serial-attached SCSI (SAS) HDDs or SSDs (rear)
<b>RAID support</b>	Onboard: Intel 610 with SATA RAID-0, RAID-1, RAID-1+0 Optional: Hardware SAS RAID-0, RAID-1, RAID-5, RAID-6, RAID-1+0, just a bunch of disks (JBOD)
<b>RAID cache protection</b>	Optional
<b>DVD-ROM</b>	None
<b>Hot-swap components</b>	Power supplies, drives
<b>Network interface</b>	Intel X540 dual-port 10GbE BASE-T, dedicated 1 GbE management port
<b>Expansion slots</b>	2 PCIe 3.0 slots (low profile), 2 PCIe 3.0 slots (full height or full length), 1 PCIe 3.0 slot (mezzanine)
<b>Power supply</b>	Redundant 750W, 100 – 120V and 200 – 240V
<b>USB ports</b>	2 front, 2 back
<b>VGA ports</b>	1 rear
<b>Energy-efficiency compliance</b>	80 PLUS Gold
<b>Systems management</b>	Embedded server management with remote interface
<b>Dimensions, weight</b>	447mm (w) x 745mm (d) x 87.5mm (h), 28.41Kg

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