HITACHI
Inspire the Next

DATASHEET

Optimized to deliver exceptional compute density, this server features up to four independent nodes in a single 2U enclosure. Each node delivers a balance of compute and storage capacity with the flexibility to support diverse application workloads in a reliable, affordable and easy-to-use solution. This server is ideal for situations where space is at a premium.

Rack Optimized Server for Solutions, 2U Four Node

Density, Performance and TCO

With support for up to four individual server nodes running the latest Intel Xeon processors in just 2U of rack space, this server delivers exceptional compute density. It provides flexible memory and storage options to meet the needs of converged infrastructure solutions, including Hitachi Unified Compute Platform 1000 for VMware EVO:RAIL and Hitachi Unified Compute Platform 2000.

The Intel Xeon Processor E5 family is optimized to address the growing demands on today's IT infrastructure. One or two multicore CPUs in each node deliver high-compute density and state-of-the-art performance. Each server node contains 16 slots for high-speed DDR4 memory, allowing up to 512GB of memory per node (when 32GB DIMMs are used).

Shared cooling fans and power supplies allow compute density to be maximized while reducing costs for a lower total cost of ownership (TCO).

Flexible Storage Options

The server supports up to 24 hot-pluggable, front-side-accessible 2.5-inch serial-attached SCSI (SAS) or serial-ATA (SATA) drives, with six allocated to each server node. Both hard disk drive (HDD) and solid-state drive (SSD) options are supported. This support allows the server to be flexibly configured to address both I/O performance and capacity requirements for a wide range of applications and solutions.

I/O Expansion

Each node includes three types of PCIe 3.0 expansion slots: a low profile slot, a mezzanine slot and an OCP mezzanine slot. A selection of I/O expansion and controller modules adds versatility, allowing you to tailor individual nodes to your network environment and application needs.

Enterprise-Class RAS Features

This server provides reliability, availability and serviceability (RAS) features. The server enclosure utilizes a modular design that simplifies cable routing and reduces service time and costs. Redundant, hot-swap drives and power supplies provide a resilient architecture for important applications. Dual-rotor fan design ensures optimal cooling after a fan failure to further protect against disruptions.

More Capability in Less Space

This four-node server integrates the latest CPUs, networks and storage into a powerful, space-efficient, flexible solution. It delivers maximum density and reliability in a 2U rack footprint.

The server sustains high performance and has reduced data center cooling requirements. The innovative design allows the performance and throughput of the new Intel Xeon processor to be fully utilized by a wide range of applications.

Embedded Server Management

Integrated baseboard management controllers allow each node's operating status and power control to be managed remotely and independently. A dedicated interface facilitates secure remote access through a LAN connection and provides a powerful, 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 management tasks and reduces or eliminates the need to physically visit the data center, even when a server is not operational.

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

Form factor (height)	2U
Nodes per enclosure	1 - 4
Processor	Intel Xeon processor E5-2600 v3 series processors
Number of processors	1 or 2 per node
Memory (maximum)	Sixteen 2133 MHz DDR4 dual in-line memory mode (DIMM) slots per node
Disk bays	Twenty-four 2.5" bays for hard disk drives (HDDs) or solid-state drives (SSDs), (six per node)
RAID support	Onboard: Intel 610 with serial ATA (SATA) RAID-0, RAID-1, RAID-1+0 Optional: Hardware serial-attached SCSI (SAS) RAID-0, RAID-1, RAID -5, RAID-6, RAID-1+0, just a bunch of disks (JBOD)
DVD-ROM	None
Hot-swap components	Power supplies and drives
Network interface	Dedicated 10/100 management port per node
Expansion slots	Per node: 1 PCIe 3.0 x16 slot (low profile), 1 PCIe 3.0 x8 mezzanine slot, 1 PCIe 3.0 x8 OCP mezzanine slot
Power supply (standard, maximum)	Redundant 1600W, 200V-240V
USB ports	Per node: 1 front, 2 rear
VGA ports	Per node: 1 rear
Energy-efficiency compliance	80 Plus Platinum
Systems management	Embedded server management with remote interface
Dimensions, weight	444mm (w) x 790mm (d) x 87.5mm (h), 41.42Kg

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