Data Sheet

We make sure



PRIMERGY RX300 S4

Dual Socket, Quad-Core, Xeon® 2U based Rack Server – Compact capacity in central service to your departments Issue July 28, 2008

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PRIMERGY RX servers offer the perfect solution to downsize data center infrastructure costs efficiently. Basis for it is an IT strategy for more transparency of structure- and administrative expenses as well as maximum use of investments. Our broad portfolio of innovative virtualization, server and solution offerings for TCO reductions of 60% or more provides best prerequisites. Optimized air flow cooling technology assures a long life, highest possible performance/watt as well as by far best in class efficiency -proven by numerous benchmark records.

Benefit from our renowned experience in datacenter technology. These allow it, to transfer the availability rates of high end UNIX servers to RX rack servers, PRIMECENTER rack enclosures and infrastructure products.

PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time. Our flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer. Last but not least Fujitsu Siemens Computers proven commitment to green IT offers clear competitive advantages to our customers.

PRIMERGY RX300 S4

PRIMERGY RX300 S4 rack server packs the capacity of a fully-featured departmental server into a rack design only 2 U in height. It is offering the breakthrough performance features of leading edge Dual- or Quad-Core Intel® Xeon® 5200/5300/5400 series CPUs embedded in a powerful design with an 8-port SAS controller and fast PCIe links and PCI-X busses. Expandability is covering for nearly any workload: 48 GB FBD667 memory, up to 12x 2.5 inch or up to 6x 3.5 inch SAS hard disk drives, and 6 free PCle and PCI-X slots for heavy I/O requirements perfect for virtualization tasks. To guarantee its high availability level, PRIMERGY RX300 S4 delivers: redundant hot-plug power supply and fans option, Hot-pluggable hard disk drives and a modular RAID. Special attention is given to secure memory data, with SDDC hotspare and memory mirroring option. The "Cool-safe™" technology secures optimal temperatures even at peak workloads, such ensuring longevity and extended Mean Time Between Failures. With this built-in failsafe functionality PRIMERGY RX300 S4 is suited ideally to meet demands for continuous operation in business critical environments, running data bases, terminal services, business applications or consolidation and virtual machine tasks.









Benefits

- Higher overall productivity through outstanding Dual-/Quad-Core performance with fast FSB, large L2 cache etc. 64-bit computing for demanding applications, with full compatibility for 32-bit legacy applications, ideal for database applications
- Fast communication path through usage of PCI-Express
- Highest flexibility on basis of latest I/O technologies for consolidation of data and applications.
- Highest availability rates comparable with high end UNIX servers
- Comfort and security for continuous operation

Key Features

- Dual- or Quad-Core Intel Xeon 5200/5400 series and 6/ 2x 6 MB SLC offer outstanding Dual- or Quad-Core performance and balanced architecture that incorporates latest memory and I/O technologies
- PCI-Express attached onboard 2x Gbit/s Ethernet LAN and modular RAID controller in PCIe slot
- Internal max. 6x 450 GB SAS / 6x 750 GB SATA 3.5" HDD or up to 12x 146 GB 2.5" SAS HDD, all hot-plug 6 free PCle and PCI-X slots
- Hot-plug, redundant power supply and fans options, Hot-plug hard disks, modular RAID5, LSP module option
- Integrated Remote Management Controller (iRMC), IPMI 2.0

| | Dual Socket Rack Server |
|---|--|
| Type System board | D 2519 |
| Chip set | Intel® 5000P |
| Processors | Dual- or Quad-Core Intel® Xeon® (1 – 2) |
| Frequencies (GHz) | 5148 (2.33) LV 40W DC / E5205 (1.86) 65W; L5240 (3.00) 50W, X5260 (3.33) 80W DC / L5310 (1.60), L5410 (2.33), L5420 (2.50) 50W QC / E5405 (2,00), E5420 (2.50), |
| | E5430 (2.66 GHz), E5440 (2.83), 80W, X5460 (3.16) 120W QC |
| Front-Side-Bus/ Socket | 1066 (E5205, L5310), 1333 MHz |
| Second-Level-Cache | 4 MB (51xx), 2x 4 MB (53xx), 6 MB (52xx), 2x 6 MB (54xx) ECC |
| Memory | 1 Gbyte up to max. 48 Gbyte |
| 2 boards (1x standard), channels each and 3 sl 512, 1, 2 and 4 GB; SD | /Buffered DIMM DDR2 PC2-5300F; ECC; 12 slots divided into 2 branches with 2 ots per channel for PC2-5300F modules with DC, Memory Mirroring and hot-spare option, cossible per branch with module pairs |
| | n floppy disk; Remote BIOS-Update via LAN |
| Interfaces | orrico paradori |
| Serial | 1x RS-232-C (9-pin) (usable for iRMC or system or shared) |
| Serial (option) | 1x RS-232-C (9-pin) occupies PCI-slot 1 |
| Parallel (option) | Centronics, 25-pin, EPP/ECP comp. (occupies PCI-slot 5) |
| Keyboard, Mouse | 2x PS/2 |
| USB 2.0 | 2x front, 2x back; (OHCI, 480 Mbit/s) 2x internal |
| Graphics | 1x VGA (15-pin) |
| LAN | 2x RJ45, 1x Service10/100 (can be switched on Gbit LAN port) |
| Front Panel | |
| | set button; LEDs for global error (amber/ |
| (green), power (amber/ | CSS), identification (blue), hard disks access green); (back: global error, identification, LAN |
| (green), power (amber/activity, LAN mode) | green); (back: global error, identification, LAN |
| (green), power (amber/activity, LAN mode) Onboard or integrated | green); (back: global error, identification, LAN |
| (green), power (amber/activity, LAN mode) | green); (back: global error, identification, LAN d controller** 2 x SATA channel for DVD + backup |
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|--|--|--|
| for optional | 1x 5.25/0.5-inch, for CD or DVD-ROM | |
| accessible drives | 1x 3.5/0.5-inch for LSP or LSD or FD | |
| | 1x 3.5/1.6-inch for backup occupies 2x 3.5 or 6x 2.5-inch HDD bay | |
| System fan units (hot- | | |
| Standard / redundant (option): 1 + 1 units, 4 fans each | | |
| Electrical values | perony. The famile, thanks saon | |
| 1x Hot-plug power supp | bly unit as standard. | |
| Additional hot-plug unit | for redundancy option | |
| Output power | 700 W / 1 + 1 x 700 W each | |
| Rated voltage range | 100 - 240 V | |
| Rated frequency | 50-60 Hz | |
| Max. rated current Rated current in basic | 100 V - 240 V / 8.0 A – 3.5 A 100 V - 240 V / 4.2 A – 1.4 A | |
| configuration | 100 V - 240 V / 4.2 A – 1.4 A | |
| Active power | 726 W | |
| Apparent power | 737 VA | |
| Heat emission | 2614 kJ/h (2477 btu/h) | |
| Temperature/Noise/Di | | |
| Ambient temperature | 10°C - 35°C (DIN IEC 721-3-3) class 3K2, | |
| | ETSI 300 019-2-3 Class 3.1 | |
| Declared noise emission | n idle* operating* *(ISO 7779) | |
| according to ISO 9296 | ETSI 300 753 Class 3.1 | |
| L _{WAd} (1 B = 10 dB) | 6.9 B 6.9 B | |
| L _{pAm} (bystander position | | |
| Overall measures | 85.9 * 482.6 * 785 (mm); (HxWxD) : 745 mm / 2 U, | |
| Rack mount depth / U Rack cable depth: | 100 mm (900mm Rack recommended) | |
| Rack integration kit | Telescopic Rails with full extraction or | |
| . idoit intogration int | partial extraction optional | |
| Weight | ~ 25 kg (configuration dependent) | |
| Compliance with Norr | ns and Standards | |
| Product safety | | |
| Global / Europe | IEC 60950-1 / EN 60950-1 | |
| USA | UL 60950-1 | |
| Canada | CAN/CSA-C22.2 No. 60950-1 | |
| Electromagnetic com | ased accessories, are in compliance with | |
| emission class A. In certa | ain cases measures have to be taken to reduce | |
| the electro magnetic influ | ence to other equipment. | |
| Europe | EN 55 022 class A, EN 55024, | |
| | EN61000-3-2 / -3-3, ETSI EN300386 | |
| Taiwan / Japan | BSMI class A; VCCI class A /JEIDA | |
| Australia / New Zealan | | |
| USA / Canada | FCC class A | |
| Declaration of confor Europe (CE) | 2004/108/EC(EMV);2006/95/EC(LVD)) | |
| North America | FCC class A | |
| Approvals | | |
| Product safety | | |
| Global / Europe | CB / CE | |
| USA / Canada | CSA _{US} / CSA _C | |
| There is general compl | ance with the safety requirements of all | |
| European countries and North America. National approvals required | | |
| in order to satisfy statutory regulations or for other reasons, can be | | |
| applied for on request. | | |
| Supported server ope | rating systems | |
| See actual release status operating systems: e.g. Windows Server 2003; Windows Server 2008, Novell SUSE Linux Enterprise Server, | | |
| Red Hat Enterprise Linux; VMware ESX (Support of Debian, Ubuntu, | | |
| Mandriva Linux and other Linux derivatives on demand) | | |
| ** For supported controllers (onboard and PCI cards for SAS, SATA, | | |
| RAID, LAN, WAN, etc.), please refer to the corresponding system | | |
| configurator | | |
| | see separate data sheets) | |
| | RIMERGY ServerView Suite; PDA, ASR&R | |
| Optional Se | erverView Local Service Panel (LSP) or Local | |
| | rvice Display (LSD), ServerView Remote anagement, iRMC S2 Advanced Pack | |
| | ANGUERIICHI. IDIVIO 34 AUVANCEU PACK | |

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