

PRIMERGY RX100 S4

Mono Socket Intel® Xeon® UP based Rack Server – Optimized in cost, size and complexity for easy deployment

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PRIMERGY RX servers are perfect answers for an IT strategy that seeks to downsize data center infrastructure costs by enhancing transparency of structure, management overhead and maximizing the use of investments.

With RX rack servers and the PRIMECENTER rack enclosures, your benefit from our renowned experience in data center technology, which assures the best quality of data center operation. To guarantee heterogeneous data center assets, the PRIMECENTER modular design accommodates seamless integration of PRIMERGY, PRIMEPOWER compute nodes, storage SAN and NAS subsystems, as well as other infrastructure components such as hubs, KVM switches and more, using a universal power circuit structure.

Cost-effective scaling, simplified operation and enhanced quality of data center IT production are the main benefits in deploying PRIMERGY RX servers. Their centralized PRIMERGY ServerView Suite management functions mean less troubleshooting and costs and remote access from anywhere at any time. The 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 – shortening your time to production.

PRIMERGY RX100 S4

As business processes and customer bases grow and rely more on Internet technology, data centers face the challenge of rapid enhancements of their front end infrastructure services. Increasingly they are looking for a platform solution that has minimum impact on their budgets, yet is easy to deploy and simple to operate. That is where the RX100 S4 optimally fits in. With technical evolutions like Dual-Core Intel® Xeon® UP 3000 series CPU, integrated SAS or SATA RAID 0, 1 data protection and 8 GB direct addressable memory the PRIMERGY RX100 S4 matches your business application requirements perfectly. It combines the benefits of cost-optimized SATA or SAS disk technology with a space-saving 1 U form factor of less than 60 cm in depth. This makes it easy to integrate into any rack enclosures. The set of integrated network and management functions make it a good choice for budget-sensitive infrastructure solutions.



| Key Features | Benefits |
|---|---|
| <ul style="list-style-type: none"> ■ SATA or SAS controller, dual Ethernet, Integrated Remote Management Controller (iRMC), | <ul style="list-style-type: none"> ■ Cost-optimized platform for all datacenter front-end operations |
| <ul style="list-style-type: none"> ■ Intel® Dual-Core Xeon® UP 3000 series with EM64T, Dual-Core Pentium® D with EM64T support or Celeron® | <ul style="list-style-type: none"> ■ EM64 Technology now also available for Mono processor and Mono socket ■ Dual-Core Xeon UP brings huge performance increase |
| <ul style="list-style-type: none"> ■ Integrated SAS or SATA RAID 0, 1, SATA hot-plug or easy change hard disks | <ul style="list-style-type: none"> ■ Easy to use and data safety |

| | |
|---|---|
| Type | Mono Socket Rack Server |
| System board | D2532 |
| Chip set | Intel® 3000 |
| Processor | Intel® Celeron® / Intel® Pentium® D (Dual Core) / Intel® Xeon® UP (Dual Core) |
| Frequencies (GHz) | 352 (3.2) / 925 (3.0), 945 (3.4) / 3040 (1.86), 3050 (2.13), 3060 (2.40), 3070 (2.66) |
| Front-Side-Bus | 533 / 800 / 1066 MHz |
| Second-Level-Cache | 512 KB / 2x2 MB / 2 MB, 4 MB (3060, 3070) ECC |
| Memory | |
| 512 MB up to max. 8 GB, unbuffered ECC DDR2-533 SDRAM; organized in 2 banks with 2 DIMM slots each, for modules 512 MB, 1 and 2 GB; with dual channel operation better performance (2 modules with equal capacity needed), Single channel (1 module) configuration possible | |
| Flash-EPROM | |
| Local BIOS update from USB floppy disk, USB Memory Bird; Remote BIOS update via LAN (Global Flash tool). | |
| Interfaces | |
| Serial | 1 x RS-232-C, 9-pin usable for iRMC or system |
| Keyboard, Mouse | 2 x PS/2 |
| USB | 1 x front, 2 x back |
| Graphics | 1 x VGA (15-pin) |
| LAN | 2 x RJ45 |
| Front panel | |
| on/off switch; NMI-, reset button; LED's for system status (amber), identification (blue), hard disks access (green), power (amber/green); (back: system status, identification) | |
| Onboard controller ** | |
| IDE | ATA100 (for CD / DVD drives) |
| SATA variant Intel® ICH7-R | 2-port SATA 300 with RAID 0, 1 controller for hot-plug and easy change SATA hard disks |
| SAS variant (LSI1068) | 8-Port SAS controller with RAID level 0, 1 (for Windows and Linux) for hot-plug SAS or SATA HDD's |
| LAN (Broadcom 5715) | 2x 10/100/1000 Mbit/s Ethernet (PXE-Boot via LAN from PXE server) |
| Server management | Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 compatible |
| Hard disk drives | 80 / 160 / 250 / 500 Gbyte (SATA) 36 / 73 / 146 / 300 SAS (no mix) |
| 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. | |
| I/O Slots | 1x PCIe x8 (Standard, short 175 mm or Low Profile) and 1x PCI-X 64-bit/133 MHz (low profile) or: 2x PCI-X 64-bit / 133 MHz (1x Standard, short 175 mm, usable for low profile cards, with expansion bracket included into system, 1x low profile) |
| Drive bays | |
| for hard disks | 2x 3.5/1-inch hot-plug or 2x 3.5/1-inch easy change (SATA) |
| for accessible drives | 1x 5,25/0,5-inch for CD-RW / DVD or DVD-RW option |
| Electrical values | |
| Power supply | Standard |
| Output power | 290 W |
| Rated voltage range | 100 - 127, 200 - 240 V |
| Rated frequency | 50-60 Hz |
| Max. rated current | max. 4 A (100 V - 127 V) max. 2 A (200 V - 240 V) |

| | |
|---|--|
| Active power | 231 W |
| Apparent power | 236 VA |
| Heat emission | 832 kJ/h (788 btu/h) |
| Rated current in basic configuration | 100V – 127V / 1.8A 200V – 240V / 0.8A |
| Temperature/Noise/Dimension/Weight | |
| Ambient temperature | 10°C - 35°C (DIN IEC 721-3-3) class 3K2 |
| Declared noise emission according to ISO 9296 | idle* operating* (*ISO 7779) |
| L _{WAd} (1 B = 10 dB) : | 5,5 B 6,1 B |
| L _{pAm} (bystander position): | 50 dB 56 dB |
| Dimensions (HxWxD) | 42.5 * 430 * 560 (mm) |
| Dimension rack mount | 575 mm rack integration depth; 200 mm cable depth; 1 height unit (U) |
| Rack integration kit | inclusive sliding rails as part of the standard delivery |
| Weight | approximately 12 kg (depends on configuration) |

Compliance with Norm and Standards**Product safety**

| | |
|--------------|----------------|
| Global | IEC 60950 |
| Europe | EN 60950 |
| USA / Canada | UL / CSA 60950 |

Electro magnetic compatibility

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|-------------------------|--|
| Europe | EN 55 022 class A, EN 55024, EN 300386, EN 61000-3-2 / -3, |
| Taiwan | CNS 13438 class A |
| Japan | VCCI class A / JEIDA |
| Australia / New Zealand | AS/NZS CISPR 22 class A |
| USA / Canada | FCC class A |

Declaration of conformity

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|---------------|-----------------------------------|
| Europe (CE) | 89/336/EEC (EMC); 72/23/EEC (LVD) |
| North America | FCC class A |

Approvals**Product safety**

| | |
|----------------|--------------------------------------|
| Global | CB |
| Europe | CE |
| USA / Canada | CSA _{US} / CSA _C |
| Taiwan / China | BSMI / CCC |

There is general compliance 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 operating systems

See actual release status [operating systems](#): e.g. Windows Server 2003; Novell SUSE Linux Enterprise Server, Red Hat Enterprise Linux (Support of Debian, Ubuntu, Mandriva Linux and other Linux derivatives [on demand](#))

** For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.

Server Management (see separate data sheets)

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|----------|---------------------------------------|
| Standard | PRIMERGY ServerView Suite; PDA, ASR&R |
| Optional | RemoteView, iRMC Advanced Pack |