

## PRIMERGY RX300 S2

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### Dual Processor Rack Server – Compact capacity in central service to your departments

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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, you 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 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 Server View 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 RX300 S2

It's business continuity that corporate departments need from data center providers. In addition, their demands for scaling in application workloads and data volume must be supported flexibly and at favourable cost structures, while providing dedicated computing power independent of other client requests.

That is when data center providers should opt for a compact, powerful rack server that does not compromise on capacity for performance, local data volume and continuous business service, yet makes the most of precious data center space. The RX300 rack server packs the capacity of a fully-featured departmental server into a rack design only 2 U in height, leaving room for up to 1.8 TB of local storage. With its failsafe built-in functionality, it is ideally suited to meet demands for continuous operation.



Key Features	Benefits
<ul style="list-style-type: none"> <li>Intel Xeon EM64Technology</li> </ul>	<ul style="list-style-type: none"> <li>With Intel Xeon EM64Technology the processor gives the company a way to ease into 64-bit computing, as soon as the individual need of the application comes up:</li> </ul>
<ul style="list-style-type: none"> <li>Internal 6x 300 GB HD, up to 16 GB memory, up to 5 PCI-X slots, hot-plug tape option</li> </ul>	<ul style="list-style-type: none"> <li>High capacity for consolidation of data and application volumes within only 2 U height.</li> </ul>
<ul style="list-style-type: none"> <li>hot-plug for PCI-X controller and hard disks, hot-spare memory and memory mirroring support (standard)</li> <li>split SCSI backplane, MegaRaid controller onboard, hot-plug, redundant power supply and fans (options)</li> </ul>	<ul style="list-style-type: none"> <li>Comfort and security for continuous operation</li> </ul>
<ul style="list-style-type: none"> <li>2 x Gbit/s Ethernet LAN</li> </ul>	<ul style="list-style-type: none"> <li>Top-speed communications link via LAN as standard will assure continuity in failover mode</li> </ul>

<b>Type</b>	Dual Processor Rack Server
<b>System board</b>	D 1889
Chip set	Intel® E7520
Processors	Intel® Xeon™ (1 - 2)
Frequencies (GHz)	2.80,3.00,3.20,3.40,3.60
Front-Side-Bus	800 MHz
Second-Level-Cache	1 Mbyte ECC
<b>Memory</b>	1 Gbyte up to max. 16 Gbyte
2-way interleaved, registered ECC DDR2-400 SDRAM; 4 banks with 2 slots each for PC3200 modules with 512, 1 and 2 (as soon as available) Gbyte; Memory Scrubbing, Chipkill™, Hot-spare Memory option and Memory Mirroring option	
<b>Flash-EPROM</b>	
Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition, or through chipDISK/RTDS via modem	
<b>Interfaces</b>	
Serial	1x RS-232-C (9-pin) (usable for BMC or OS or shared)
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Parallel (option)	Centronics, 25-pin, EPP/ECP comp.
Keyboard, Mouse	2x PS/2
USB 2.0	2x front, 2x back; (OHCI, 480 Mbit/s)
Graphics	1x VGA (15-pin)
LAN	2x RJ45
SCSI (option)	external Ultra320 SCSI, 68-pin
<b>Front Panel</b>	
On/off switch; NMI-, reset button; LEDs for system status (amber), identification (blue), hard disks access (green), power (amber/green); (back: system status, identification)	
<b>Onboard controller **</b>	
IDE (ATA100)	for 1 x CD / DVD plus 1 x RemoteView
SCSI (LSI53C1030)	2-channel Ultra320 SCSI with RAID level 1 (Integrated Mirroring Enhanced also for odd numbered HD's) (for Windows and Linux)
MegaRaid PCI Express™ RoMB (option)	RAID level 0, 1, 10, 5, 50 extension for onboard SCSI/RAID controller with 256 MB or 128 MB (with BBU option) RAID cache and iButton enable key
LAN (BroadCom5721)	2x 10/100/1000 Mbit/s Ethernet
Graphics	ATI Rage XL 8 MB
Server management	Baseboard Management Controller (BMC), IPMI 1.5 compatible
<b>Hard disk drives</b>	36, 73, 146, 300 Gbyte, U320 SCSI
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
<b>I/O Slots (Standard)</b>	
3 x PCI-X 64-bit / 100 MHz, low profile; 3.3 V (with IOOP™ bus 1 x 133MHz if only slot 3 is used) 2 x PCI-X 64-bit / 133 MHz, low profile; 3.3 V hot-plug	
<b>I/O Slots (risercard option)</b>	
1 x PCI-X 64-bit / 100 MHz, long, full height; 2 x PCI-X 64-bit / 100 MHz, short, full height	
<b>Drive bays</b>	
for hard disks	6x 3.5/1-inch, slide-in chassis; over 1 or 2 SCSI channels (option)
for accessible drives	1x 5.25/0.5-inch, for CD or DVD; 1x 3.5/0.5-inch, for FD drive or LocalView display option
for optional accessible drives	1x 3.5/2-inch for hot-plug tape drive, requires 2 hard disk bays
<b>System fan units (hot-plug)</b>	
Standard / redundant (option): 1 + 1 units, 4 fans each	

<b>Electrical values</b>	
Hot-plug power supply unit as standard. Additional hot-plug unit for redundancy option	
Output power	600 W / 1 + 1 x 600 W each
Rated voltage range	100 - 240 V
Rated frequency	50-60 Hz
Max. rated current	100 V - 240 V / 8 A - 3 A
Rated current in basic configuration	100 V - 240 V / 4.2 A - 1.4 A
Active power	681 W
Apparent power	689 VA
Heat emission	2452 kJ/h (2324 btu/h)
<b>Temperature/Noise/Dimension/Weight</b>	
Ambient temperature	10°C - 35°C (EN60721-3-3 class 3K2)
Sound pressure L <sub>pAm</sub>	<= 57 dB (A) (ISO9296)
Sound power L <sub>WAd</sub>	<= 7.1 B (ISO9296)
Overall measures	85.9 * 482.6 * 785 (mm); (HxWxD)
Rack mount depth / U: Rack cable depth:	745 mm / 2 U, 100 mm (900mm Rack recommended)
Rack integration kit	inclusive telescopic rails as part of the standard delivery
Weight	~ 25 kg (configuration dependent)
<b>Compliance with Norm and Standards</b>	
<b>Product safety</b>	
Global / Europe	IEC 60950-1 / EN 60950-1
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
<b>Electro magnetic compatibility</b>	
Europe	EN 55 022 class A, EN 55024, EN 61000-3-2 / -3-3
Taiwan / Japan	BSMI class A; VCCI class A / JEIDA
Australia / New Zealand	C-Tick class A
USA / Canada	FCC class A
<b>Declaration of conformity</b>	
Europe (CE)	89/336/EEC(EMV);73/23 EEC(LVD)
North America	FCC class A
<b>Approvals</b>	
<b>Product safety</b>	
Global / Europe	CB / CE
USA / Canada	CSA <sub>US</sub> / CSA <sub>C</sub>
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.	
<b>Supported operating systems</b>	
Microsoft: Windows 2003 IA32 Standard, Enterprise Edition; Microsoft Windows 2003 Web Edition Microsoft: Windows 2000 Advanced Server; Server Novell: NetWare 6.5 VMware: ESX Server 2.5 SCO: UnixWare 7.1.4 SUSE: Enterprise Server 8 for X86 and 9 x86 / EM64T SUSE Linux 9.1 for X86 Red Hat: Enterprise Linux 2.1; 3 for X86	
** For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
<b>Server Management</b> (see separate data sheets)	
Standard:	PRIMERGY ServerView Suite; PDA, ASR&R
Optional:	RemoteView with IDE chipDISK and RemoteView Service Board (RSB S2)