Data Sheet

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PRIMERGY RX100 S2

Mono Processor 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, 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 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 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 RX100 S2

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 S2 optimally fits in. It combines the benefits of cost-optimized SATA disk technology, the comfort of integrated RAID data protection with a space-saving 1 U form factor of less than sixty 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.

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intel inside pentium 4

Key Features	Benefits
▪ SATA controller, dual Ethernet, IPMI BMC, Intel® Celeron® and Pentium® 4	▪ Cost-optimized platform for all datacenter front-end operations
▪ Intel® Pentium®4 supporting Hyper-Threading technology	▪ Up to 30 % higher processor performance with HT support
▪ Integrated SATA RAID 1, SATA hot-plug or easy change hard disks	▪ Easy to use and data safety

Type	Mono Processor Rack Server
System board	D1571-A10/A50 (hot-plug/easy change)
Chip set	Intel® E7210
Processors	Intel® Celeron® / Pentium® 4
Frequencies (GHz)	2.8 / 3.0, 3.2, 3.4
Front-Side-Bus	533 MHz / 800 MHz
Second-Level-Cache	256 Kbyte ECC / 1 Mbyte ECC
Memory	
256 Mbyte up to max. 4 Gbyte, unbuffered ECC PC3200 DDR SDRAM; with Pentium® 4 organized with dual-channel in 2 slots, with Celeron® organized with single channel in one slot for modules 256 Mbyte, 512 Mbyte and 1 Gbyte, mix and match of modules possible	
Flash-EPROM	
Local BIOS update from floppy disk; Remote BIOS update via LAN (Global Flash tool).	
Interfaces	
Serial	1 x RS-232-C, 9-pin (not available in combination with RemoteView via LAN)
Keyboard, Mouse	2 x PS/2
USB	2 x front, 1 x back
Graphic	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 (red/green); (back: system status, identification)	
Onboard controller **	
IDE	ATA100 (for CD / DVD drives)
Intel® 6300ESB (only for easy change) Promise PDC20319 (only for hot-plug)	LSI SATA Software RAID 0, 1 SATA RAID 0, 1
LAN (Intel 82547EI & Intel 82541)	2 x Ethernet 10/100/1000 Mbit/
Graphics	ATI Rage XL 8 MB
Server management	Baseboard Management Controller (BMC), IPMI 1.5 compatible
Hard disk drives	Up to 2 x 80 / 160 Gbyte (SATA)
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
I/O Slots	1x PCI 64-bit / 66 MHz (Standard 315 mm long, usable for low profile cards, with expansion bracket included into system); 1x PCI 64-bit / 66 MHz (low profile, 175 mm)
Drive bays	
for hard disks	2x 3.5/1-inch hot-plug **or** 2x 3.5/1-inch easy change
for accessible drives	1x 5.25/0.5-inch for CD or DVD option
for floppy disk drive	1x 3.5/0.5-inch, for FDD option
Electrical values	
Power supply	Standard
Output power	300 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)
Rated current in basic configuration	100V – 127V / 1.86A 200V – 240V / 0.98A
Active power	380 W
Apparent power	381 VA
Heat emission	1368 kJ/h (1296.6 btu/h)

Temperature/Noise/Dimension/Weight	
Ambient temperature	10°C - 35°C (DIN IEC 721)
Sound pressure L_{pAm}	<= 58.9 dB (ISO9296)
Sound power L_{WAd}	<= 7.0 Bell (ISO9296)
Dimensions (HxWxD)	43 * 430 * 560 (mm)
Dimension rack mount (HxWxD)	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	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
Electro magnetic compatibility	
Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / -3
Taiwan	CNS 13438 class A
Japan	VCCI class A / JEIDA
Australia / New Zealand	C-Tick class A
USA / Canada	FCC class A
Declaration of conformity	
Europe (CE)	89/336/EEEC (EMC); 72/23/EEC (LVD)
North America	FCC class A
Approvals	
Product safety	
Global	CB
Europe	CE
USA / Canada	CSA_{US} / CSA_{C}
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 operating systems	
Microsoft: Windows 2003 Standard; Web Edition Microsoft: Windows 2000 Server SCO: UnixWare 7.1.4 (RX100 S2 easy change only) SUSE: LINUX ES-8; LINUX ES-9 Red Hat: LINUX EL2.1; LINUX EL3	
** 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)	
Standard	PRIMERGY ServerView Suite; PDA, ASR&R
Optional	RemoteView, RemoteView Service Board (RSB)

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