

# PRIMERGY RXI300

***System configurator and order-information guide***

**February 2008**

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Change Report



**PRIMERGY Server**

# Instructions

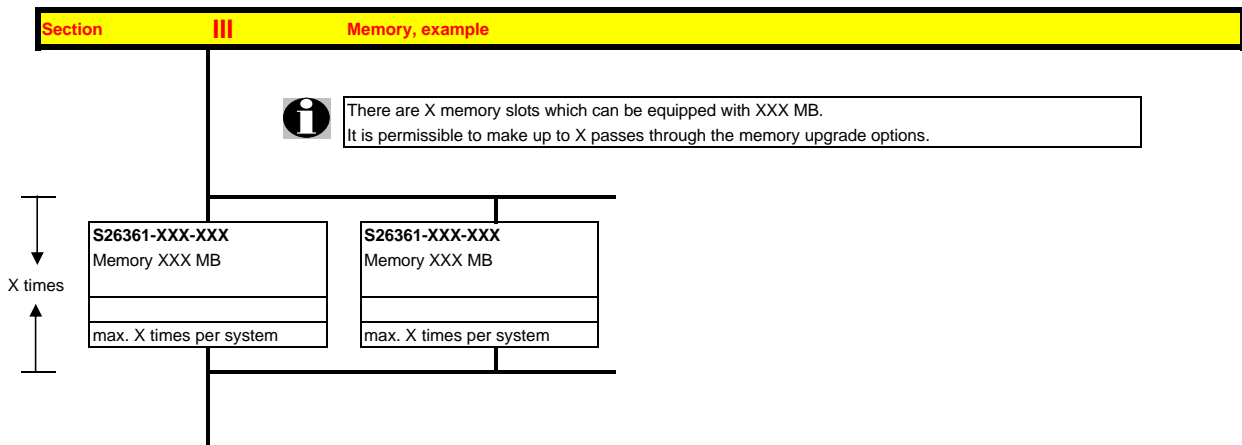
This document contains basic product and configuration information that will enable you to configure your system via PC-/RACK-Architect.

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

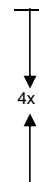
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The Order-Information Guide has been split up in 11 chapters that are identical with the current price list and PC-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 4x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.



**Further information in the internet see:**

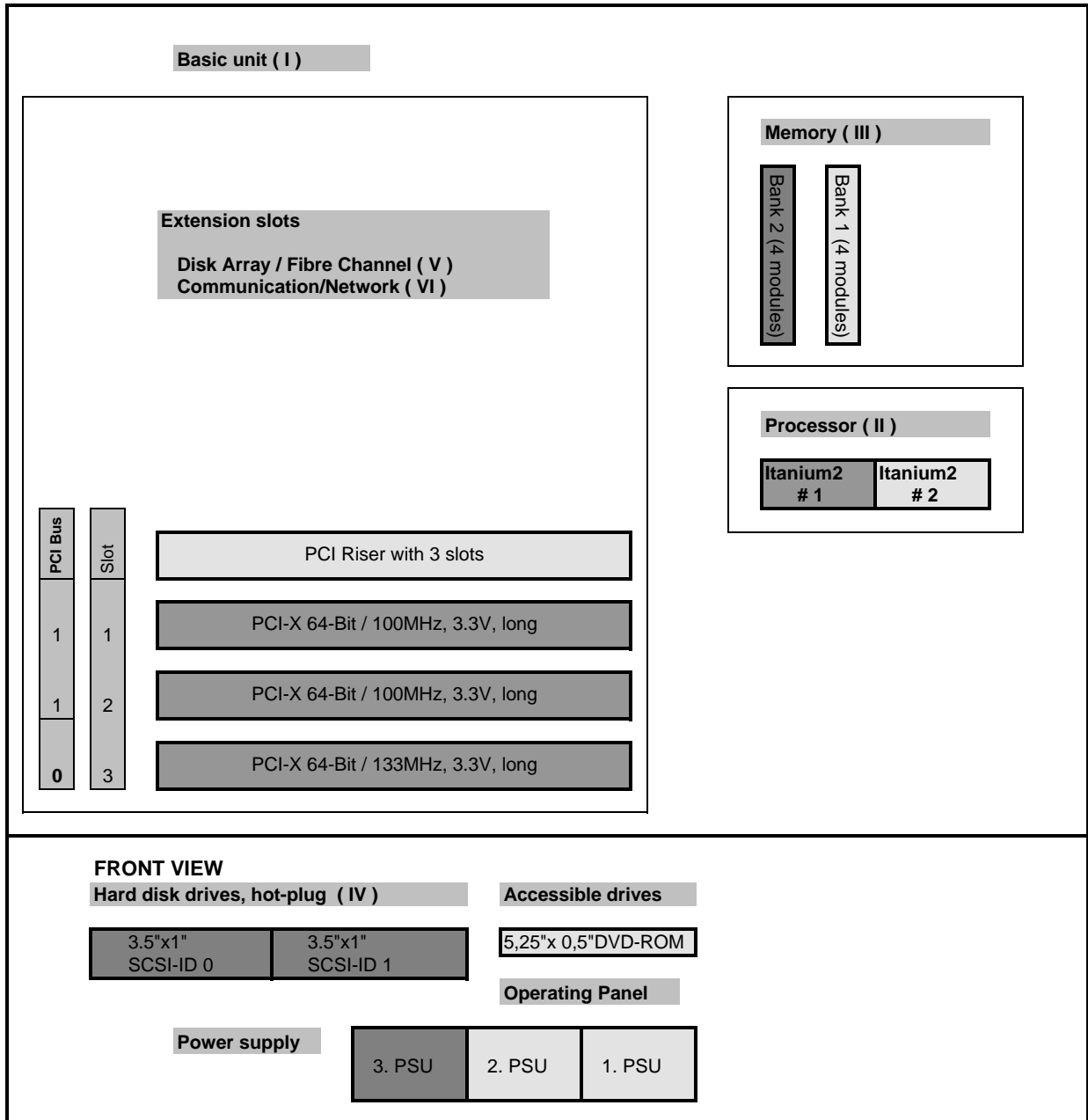
<http://www.primergy.com> (internet)

<http://extranet.fujitsu-siemens.com/primergy> (extranet)

Prices and availability see price list and PC-/ System-Architect.  
 Subject to change and errors excepted.

## Configuration diagram PRIMERGY RXI300

### TOP View



Key:

- Included in basic unit
- Option

Start "PRIMERGY RXI300"

**SW Configurator**

with OEM-Software  
for PRIMERGY Server



For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.

**Microsoft - Software: W \*\*)**

- Windows Server 2003 R2, Enterprise x64 Edition
- Additional loose Client-Access-Lizenzen (CALs)

**Linux - Software: \*\*)**

- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS



\*\* Pay attention to release and order information in PRINCE -> Operating System  
[http://vil.mch.fsc.net/vil/pc/vil/primergy/overview/prince/index\\_en.htm](http://vil.mch.fsc.net/vil/pc/vil/primergy/overview/prince/index_en.htm)

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: [http://vil.mch.fsc.net/vil/oc/special/primergy/index\\_en.htm](http://vil.mch.fsc.net/vil/oc/special/primergy/index_en.htm)  
for partners: [http://vilpart.fujitsu-siemens.de/vil/oc/special/primergy/index\\_en.htm](http://vilpart.fujitsu-siemens.de/vil/oc/special/primergy/index_en.htm)

Continue with PRIMERGY  
HW configurator

Start PRIMERGY RXI300

Section | Basic unit

<b>PRIMERGY RXI300</b>		
Rack unit 2U		
<b>Basic unit with:</b> - 1x Itanium 2 processor (max 2)		
<b>4 GB main memory</b>		
1.6GHz / 3MB TLC	(Madison)	S26361-K963-V210
9015 (1.4GHz/12MB TLC)	(Montecito)	S26361-K963-V944

**Basic Unit including:**

**2U Chassis with**

- 3 bays for 350W hot-plug power supply moduls, 2 hot plug moduls installed, 3rd modul req. for redundancy (PSU redundancy restricted to 240V operation), 2 sep. AC inlets
- 2xSCSI HD drive bays with hot swap backplane
- Fan unit with 6x60mm hot swap, variable speed fans
- I/O Riser board with 3 PCI-X slots  
2xPCI-X long with 100MHz  
1xPCI-X long with 133MHz
- 1x IDE CDROM/DVD-ROM Combodrive
- Front panel board and front bezel

**\* Rack- mounting kit (sliding rail's)**

- telescopic rails kit
- cable management arm

**\* Systemboard with**

- 2 Itanium CPU sockets  
one CPU installed according to the configurator  
thermal blank in other socket if 2nd CPU not installed
- 2 memory banks with 4 DIMM memory slots each for up to 16GB PC2100 registered DDR RAM with ECC one bank installed according to the configurator
- onboard dual channel Ultra 320 SCSI first ch.for int. Drives (SCSI backplane), RAID 1 support second ch. for ext. SCSI devices
- dual port LAN-Controller 10/100/1000TX
- VGA Controller (8MB RAM) on-board (ATI Rage XL)

**- External Interfaces:**

- 1x RS-232 (serial, RJ45 connector) in back
- 2x VGA ports, 1 in front, 1 in back
- 4x USB 1.1, 2 in front, 2 in back
- 2x LAN 10/100/1000 (RJ45) in back
- 1xVHDCI SCSI connector
- no PS/2 connection for KB / Mouse (USB connectivity must be used instead)

IA64 Server Support CD, User Manual

<b>S26113-F602-E350</b>
3rd power supply module (PSU) for 2+1 redundancy (350W) max. 1x per system

PRIMERGY PRIMECENTER- Rack

**SNP:SY-F1647E301-P**  
Installation ex works for one server or subsystem.  
Hereby the rack will be delivered completely pre-mounted and all wired connections are tested.  
With racks 12U, 24U, 38U:  
Systems and components will be delivered installed in the rack  
With racks 46U:  
Systems and components will be delivered separately  
To be ordered only together with a PRIMERGY-PRIMECENTER rack  
e.g.:  
S26361-K826-V10x  
**refer configurator PC-Rack**  
max. 1x per System

**"Rack-mounting ex factory"**  
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the PRIMERGY racks. In case of the 46 U PRIMERGY rack, this service has to be ordered, to get the mounting kits and the cables installed

**Mounting kit for PRIMERGY RXI300 is part of the basic unit**

- 1 pair of telescopic rails (647 - 810mm)
- 1 bracket DC-PC-Rack
- 1 cable management for DC-PC-racks

**Mounting kit for mounting of servers in in FSC 19" DataCenter- and PRIMECENTER- racks and all server racks conforming to EIA standard EIA-310-D for 19" racks.**  
Therefore the mounting kit is variable in depth from 647 - 810mm

ServerView:  
FSC IA64 Server Support CD for EFI service partition

- Connetion for KVM switch / Rack console
- RC22 can be directly connected (both USB and PS/2 connections)
- KVM s2 series needs the KVM s2 adapter USB-VGA
- For PS/2 KVM "s1" series as well as for standard PS/2 KB / Mouse an additional USB to PS/2 adapter must be bought additionally and connected to the RXI600. The adapter offers 2 x PS/2 ports. Adapter order number, to purchase via PRIMEPOWER, is D:GP70P-KA01 Adapter for PS/2<->USB
- Appropriate FSC USB keyboard is S26381-K340-V1\*  
This keyboard also needs USB cable T26139-Y3812-V1

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**Section II Processor**



A two-way-processor system requires a multi-processor operating system.  
 Later upgrading to a two-way-processor system is also possible.  
 For a CPU extension the further CPUs must be of identical TLC (third level cache) and clock rate.

up to  
1x

**S26361-F3071-E263**  
 Itanium 2 1.6 GHz  
 with 3 MB TLC on Chip,  
 heat sink and "Easy retention"  
 (Intel Codename "Fanwood")  
 occupies 2nd CPU socket  
 max. 1x per system

**S26361-F3071-E412**  
 Itanium 2 9015 1.4GHz  
 with 12 MB TLC on Chip,  
 heat sink and "Easy retention"  
 occupies 2nd CPU socket  
 max. 1x per system

**Section III Memory**



There are 8 memory slots available (2 banks, 4 modules each).  
 They can optionally be equipped with 1GB or 2GB registered DDR-RAM modules (PC2100).  
 The maximal extension is 16GB with 2GB modules!  
 Any mix of modules within one memory bank is not allowed.  
 One memory bank is already occupied

up to  
1x

**S26361-F3070-E400**  
 Main memory 4 GB  
 PC2100 registered DDR RAM  
 consisting of 4 modules  
 with 1 GB each  
 occupies one bank  
 max. 1x per system

**S26361-F3070-E800**  
 Main memory 8 GB  
 PC2100 registered DDR RAM  
 consisting of 4 modules  
 with 2 GB each  
 occupies one bank  
 max. 1x per system

**Section IV Hard disk drives**

up to  
2x

**S26361-F3066-E173**  
 Hard disk 73GB / 10K  
 10000rpm,<5.5ms, min. 8MB Cache  
**Ultra 320 SCSI (320MB/s)**  
 Interface: Wide SCA (80-pin)  
 hot plug/hot replace tray  
 occupies one 1" bay  
 onb. SCCI or RAID Controller  
 max. 2x per system

**S26361-F3066-E114**  
 Hard disk 146GB / 10K  
 10000rpm,<5.5ms, min. 8MB Cache  
**Ultra 320 SCSI (320MB/s)**  
 Interface: Wide SCA (80-pin)  
 hot plug/hot replace tray  
 occupies one 1" bay  
 onb. SCCI or RAID Controller  
 max. 2x per system

**S26361-F3066-E130**  
 Hard disk 300GB / 10K  
 10000rpm,<5.5ms, min. 8MB Cache  
**Ultra 320 SCSI (320MB/s)**  
 Interface: Wide SCA (80-pin)  
 hot plug/hot replace tray  
 occupies one 1" bay  
 onb. SCCI or RAID Controller  
 max. 2x per system

**S26361-F3066-E573**  
 Hard disk 73GB / 15K  
 15000rpm,<4ms, min. 8MB Cache  
**Ultra 320 SCSI (320MB/s)**  
 Interface: Wide SCA (80-pin)  
 hot plug/hot replace tray  
 occupies one 1" bay  
 onb. SCCI or RAID Controller  
 max. 2x per system



Standard PRIMERGY harddisks must be ordered for upgrade.  
 To use these harddisks in the RXI300 a simple frame change must be carried out.  
 Upgrade harddisks are always delivered with standard PRIMERGY harddisk frames.  
 Unused harddisk positions in the PRIMERGY RXI300 are always equipped with fully functional empty harddisk frames. Therefore, after the standard frame is removed, the harddisk has to be mounted in the RXI300 specific empty frame.  
 The following harddisks are technically released for usage in the PRIMERGY RXI300:

S26361-F3121-L173	HDD U320 10k 73GB hot plug 1"
S26361-F3121-L114	HDD U320 10k 146GB hot plug 1"
S26361-F3121-L130	HDD U320 10k 300GB hot plug 1"
S26361-F3121-L573	HDD U320 15k 73GB hot plug 1"

B

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**Section V SCSI / Fibre Channel Controller**

**included in the basic unit**  
 onboard 2 ch.SCSI Controller U320  
 connectivity  
 1) for int. Drives, RAID 1  
 2) ext. VHDCI



The system is equipped with a onboard dual channel Ultra 320 SCSI controller. one channel can be connected to internal devices via the SCSI blackplane. The two int. HDD's can be mirrored if they are connected to the on-board controller with hot swap support. The other SCSI channel can be used by external SCSI devices.

**Fibre Channel controller for subsystems and SAN**

<b>S26361-F3141-E10</b>
2GBit/s FC Controller
Emulex
LP1050, full height bracket
1 channel 2GBit/sec FC controller
LC Interface for 50um Fiber
PCI-X 64Bit / 133MHz, 170mm
3.3V / 5V tolerant signaling
max. 2x per system

**Section VI Disk Array**

**Additional RAID Controllers for connection of external Disk Arrays in Subsystem SX31**

<b>S26361-F3006-E128</b>
2-channel RAID Controller U320
LSI
320-2
128MB SDRAM ECC Cache
RAID 0, 1, 10, 5 & 50
default with TBBU
plug: internal 1x HD68;
external: 1x VHDCI
without cable
incl. SW and description (Ger/US)
64/66 PCI controller, 180mm
3.3V and 5V tolerant signaling
max. 2x per system



The cables of the connection from the subsystems (SX30) to the Raid Controllers, see configurator SX30



All Controllers for the connection of external storage systems are delivered without cables. For the configuration of external cabling see the configurator for external storage systems.

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**Section VII Communication / Network**

**on-board LAN Controller**

dual Gb Ethernet Contr. on-board
ext: 2 x RJ 45 connector



**Teaming: Failover, Load Balancing**  
 All released Intel PCI LAN Controllers can be used with the on-board controller in Teaming Mode.

**Single Port LAN Adapter**

<b>S26361-F3054-E1</b>
Gigabit Ethernet Contr. 1000SX
Eth.Ctrl 1x1Gbit PCI-X Pro/1000MF LC
Intel PRO/1000 MF Server Adapter
Adapter Teaming Support
PCI-X (PCI64/133), min 165 mm
ext:LC-connector
SW: VLAN, Fast & Gbit Etherchannel
max. 2x per system

<b>S26361-F3053-E1</b>
Gigabit Ethernet Contr. 1000TX
Eth.Ctrl 1x1Gbit PCI-X Pro/1000MT Cu
Intel PRO/1000 MT Server Adapter
Adapter Teaming Support
PCI-X (PCI64/133), min 165 mm
ext: for RJ45-connector, Cat 5 connection with Cat 5 cabling
SW: VLAN, Fast & Gbit Etherchannel
max. 2x per system

3x

**Dual Port LAN Adapter**

<b>S26361-F3011-E1</b>
Gigabit Ethernet Contr dual 1000TX
Eth.Ctrl 2x1Gbit PCI-X PRO/1000MT Cu
Intel Pro/1000MT dual Server Adapter
Adapter Teaming Support
PCI-X (PCI64/66), min 163 mm
ext: for RJ45-plug, Cat 5 connection with Cat 5 cabling
SW: VLAN, Fast & Gbit Etherchannel
max. 2x per system

D



D

**Section VIII System Management Products**



**FSC IA64 Server Support CD**

The CD contains tools for installing of the system, for update and for system diagnose.  
The tools works in the EFI system partition.  
Included in the basic unit.

**Section IX Country specific power cord**



**Country specific power cords are not required for rack versions, except for USA&Canada. Power cords are shipped in a rack version with inlet connector for non-heating apparatus. Description in english. Both included in basic unit.**



**T26139-Y1742-L10 USA, Canada**

For shipments to USA&Canada, you have to order two power cords (1,8m, grey). For phase redundancy 2 Power Cords and 3 PSU's per system are needed.

End PRIMERGY RXI300



## Free Manuals Download Website

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