FUJITSU COMPUTERS SIEMENS

PRIMERGY RXI300

System configurator and order-information guide

February 2008

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Change Report

PRIMERGY Server

Instructions

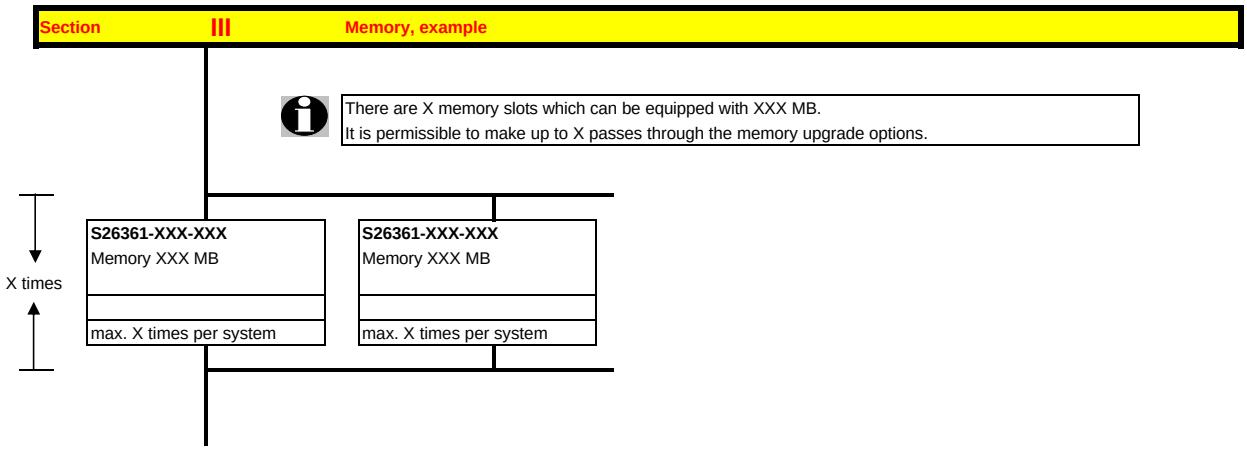
This document contains basic product and configuration information that will enable you to configure your system via PC-/RACK-Architect.

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:

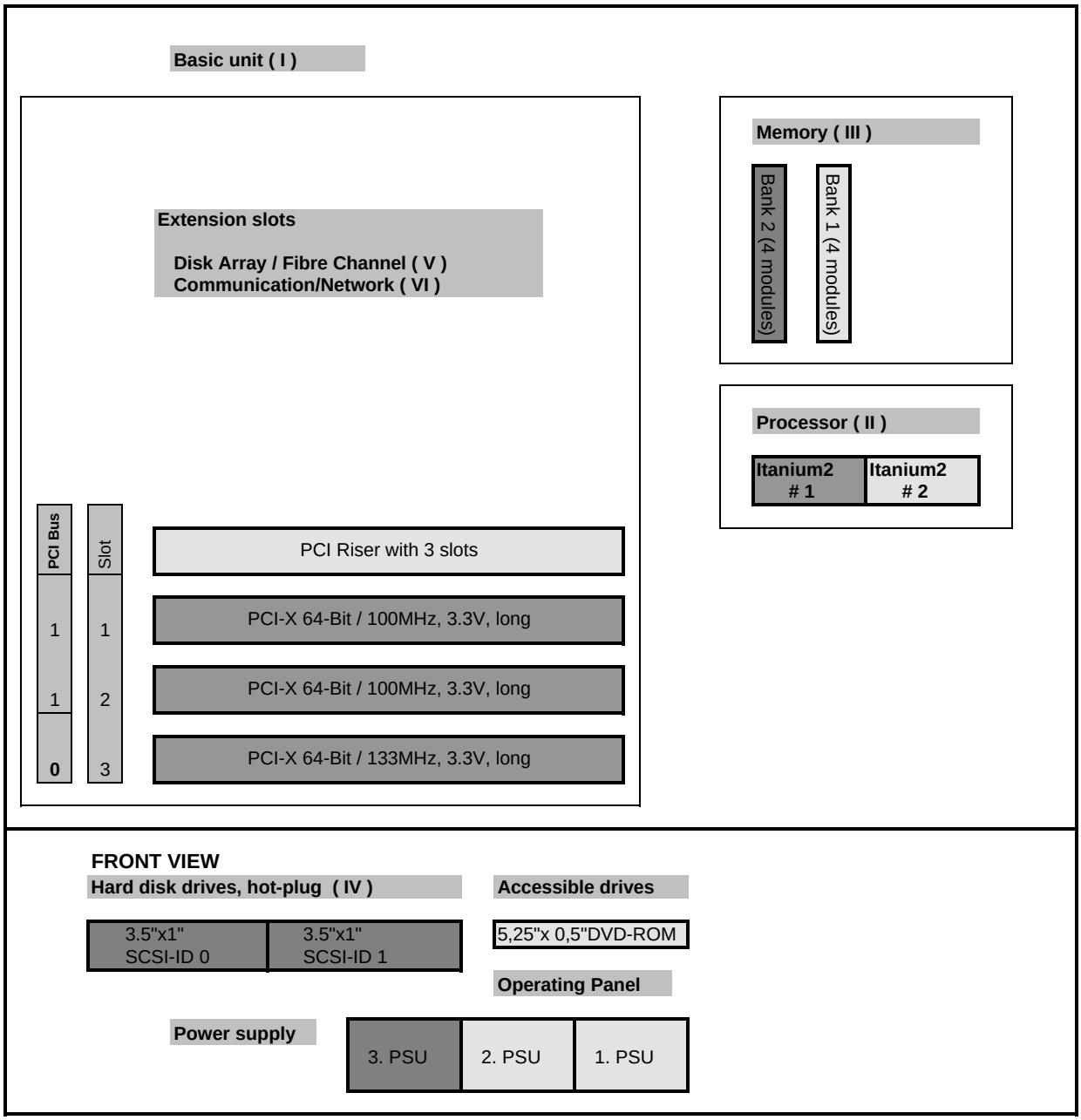
http://www.primergy.com (internet)

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

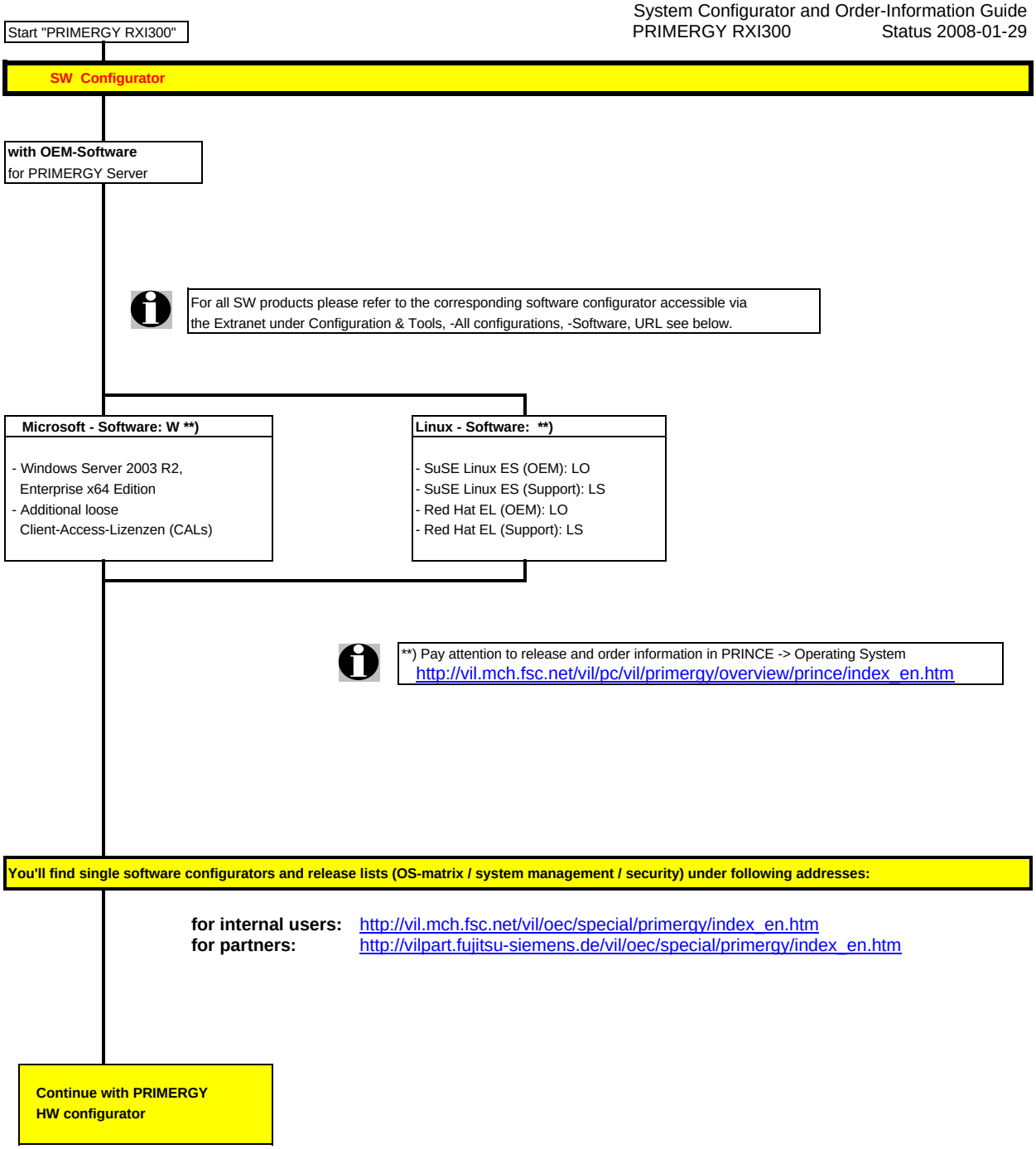
TOP View



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
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/oec/special/primergy/index_en.htm
for partners: http://vilpart.fujitsu-siemens.de/vil/oec/special/primergy/index_en.htm
Continue with PRIMERGY HW configurator

Start PRIMERGY RXI300

Section | **Basic unit**

PRIMERGY RXI300

Rack unit 2U

Basic unit with:
- 1x Itanium 2 processor (max 2)

4 GB main memory

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

S26113-F602-E350
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

ServerView:
FSC IA64 Server Support CD
for EFI service partition

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

- 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. Adaper 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	**S26361-F3071-E412**
Itanium 2 **1.6 GHz** with **3 MB** TLC on Chip, heat sink and "Easy retention" (Intel Codename "Fanwood")	Itanium 2 9015 **1.4GHz** with **12 MB** TLC on Chip, heat sink and "Easy retention"
occupies 2nd CPU socket	occupies 2nd CPU socket
max. 1x per system	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 allready occupied

up to 1x

S26361-F3070-E400	**S26361-F3070-E800**
Main memory **4 GB** PC2100 registered DDR RAM	Main memory **8 GB** PC2100 registered DDR RAM
consisting of 4 modules with 1 GB each	consisting of 4 modules with 2 GB each
occupies one bank	occupies one bank
max. 1x per system	max. 1x per system

Section IV Hard disk drives

up to 2x

S26361-F3066-E173	**S26361-F3066-E114**
Hard disk 73GB / 10K	Hard disk 146GB / 10K
10000rpm,<5.5ms, min. 8MB Cache	10000rpm,<5.5ms, min. 8MB Cache
Ultra 320 SCSI (320MB/s) Interface: Wide SCA (80-pin) hot plug/hot replace tray	**Ultra 320 SCSI (320MB/s)** Interface: Wide SCA (80-pin) hot plug/hot replace tray
occupies one 1" bay onb. SCCI or RAID Controller	occupies one 1" bay onb. SCCI or RAID Controller
max. 2x per system	max. 2x per system

S26361-F3066-E130	**S26361-F3066-E573**
Hard disk 300GB / 10K	Hard disk 73GB / 15K
10000rpm,<5.5ms, min. 8MB Cache	15000rpm,<4ms, min. 8MB Cache
Ultra 320 SCSI (320MB/s) Interface: Wide SCA (80-pin) hot plug/hot replace tray	**Ultra 320 SCSI (320MB/s)** Interface: Wide SCA (80-pin) hot plug/hot replace tray
occupies one 1" bay onb. SCCI or RAID Controller	occupies one 1" bay onb. SCCI or RAID Controller
max. 2x per system	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

S26361-F3141-E10
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

S26361-F3006-E128
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.

C

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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

S26361-F3054-E1
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

S26361-F3053-E1
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

S26361-F3011-E1
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

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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 englisch. 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

Change Report

Date	order number	changes
2006-11-02	S26361-F3071-E269	Processor Itanium2 1.6GHz / 9MB TLC - no longer available
2006-11-02	S26361-K963-V212	Rack mountable server 19" (2U) 1.6GHz / 9MB TLC / 4GB Memory - no longer available
2006-11-02	S26361-K963-V213	Rack mountable server 19" (2U) 1.6GHz / 9MB TLC / 8GB Memory - no longer available
2006-08-24	S26361-F3071-E412	Processor Itanium2 9015 1.6GHz / 12MB TLC 400MHz FSB - now available
2006-08-25	S26361-K963-V948	Rack mountable server 19" (2U) Itanium 2 9015 dual core processor; 8 GB Memory - now available
2006-08-25	S26361-K963-V944	Rack mountable server 19" (2U) Itanium 2 9015 dual core processor; 4 GB Memory - now available
2005-12-20	S26361-F2843-E1	2GBit/s FC Controller Emulex LP9802, PCI - no longer available
2005-09-23	S26361-F3141-E10	2GBit/s FC controller Emulex LP1050 - now available
2005-06-02	S26361-F3066-E136	Hard disk 36GB / 10K - no longer available
2005-04-20	S26361-F3066-E130	Hard disk 146GB / 10K - now available
2005-04-07	Section IV	Basic unit without HDDs - now available
2005-01-21	S26361-F3066-E173	Hard disk 73GB / 10K - now available
2004-12-17	S26361-F3071-E1xx	2. Processor Itanium 2 (Madison) - no longer available
2004-12-17	S26361-K963-V20x	Basic units with Itanium 2 (Madison) processor - no longer available
2004-11-05	S26361-F3071-E263	Processor Itanium2 1.6GHz / 3MB TLC Fanwood - now available
2004-11-05	S26361-F3071-E269	Processor Itanium2 1.6GHz / 9MB TLC - now available
2004-11-05	S26361-K963-V210	Rack mountable server 19" (2U) 1.6GHz / 3MB TLC Fanwood / 4GB Memory - now available
2004-11-05	S26361-K963-V211	Rack mountable server 19" (2U) 1.6GHz / 3MB TLC Fanwood / 8GB Memory - now available
2004-11-05	S26361-K963-V212	Rack mountable server 19" (2U) 1.6GHz / 9MB TLC / 4GB Memory - now available
2004-11-05	S26361-K963-V213	Rack mountable server 19" (2U) 1.6GHz / 9MB TLC / 8GB Memory - now available
2004-05-12		First draft