FUJITSU COMPUTERS SIEMENS

PRIMERGY TX150 S4

System configurator and order-information guide

December 2005

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Change report

PRIMERGY Server

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Instructions

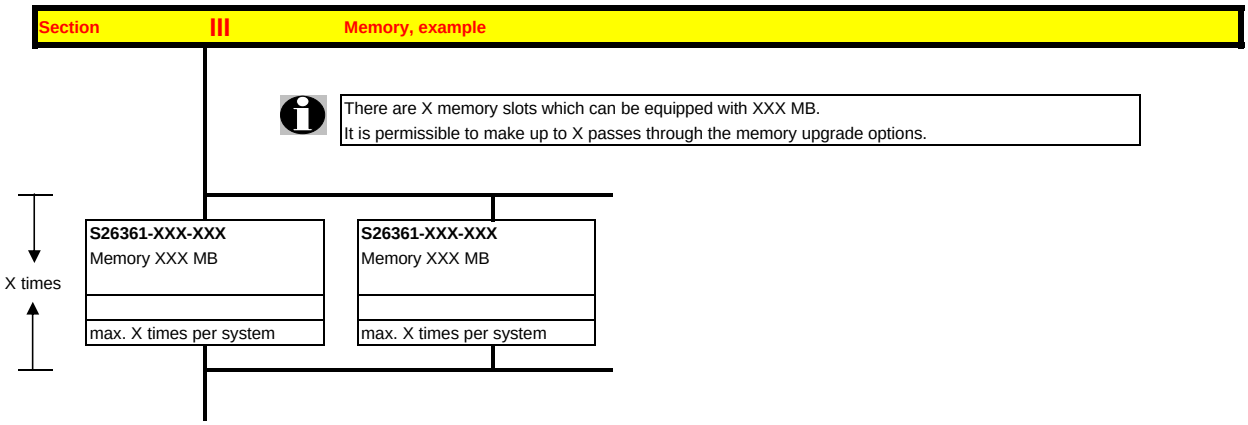
This document contains basic product and configuration information that will enable you to configure your system via PC-/ System-Architect.

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 System configurator is divided into several chapters that are identical to the current price list and PC-/ System-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

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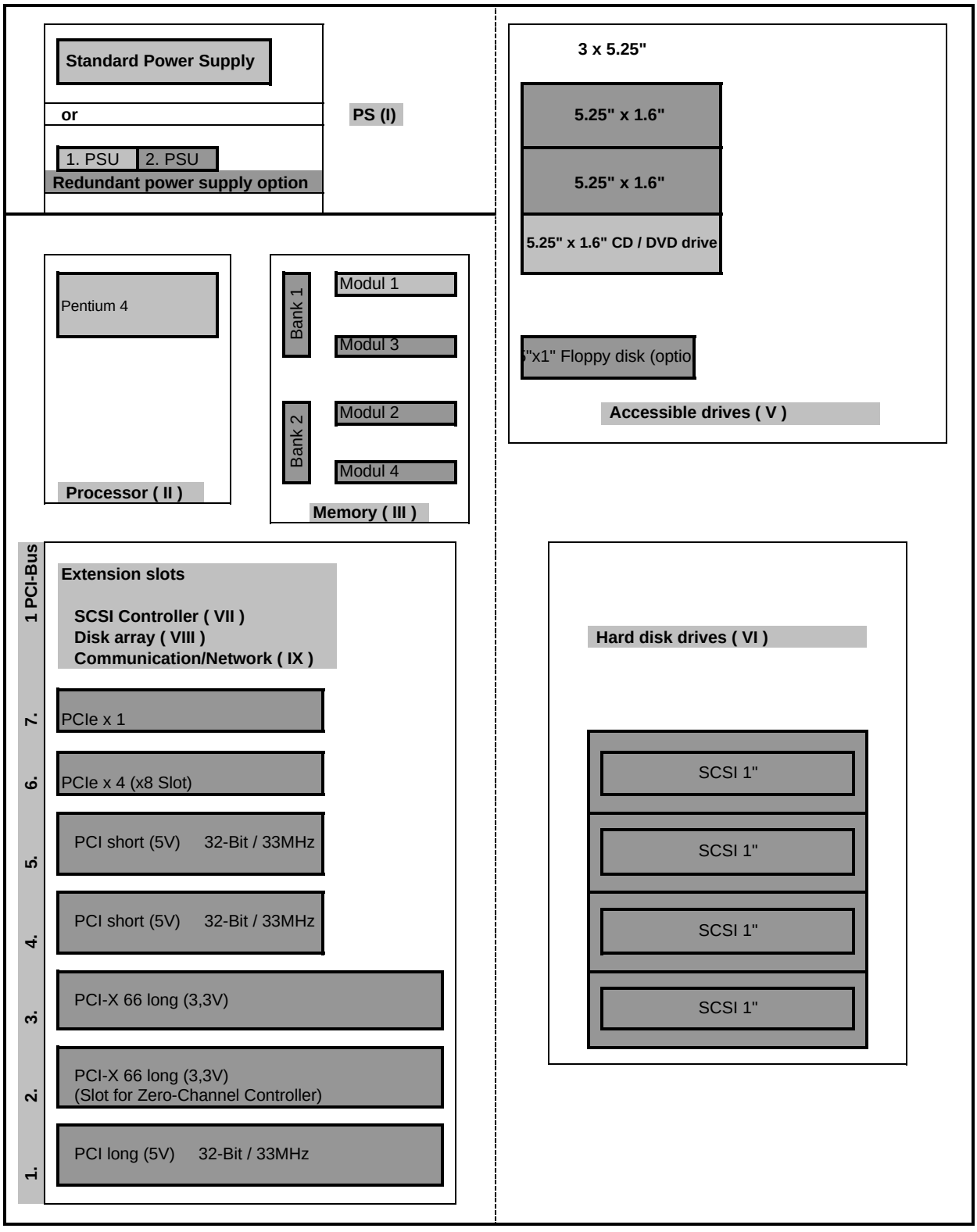
Configuration diagram PRIMERGY TX150 S4

System unit (I)

SIDE VIEW **FRONT VIEW**



Key:

Included in basic unit

Option

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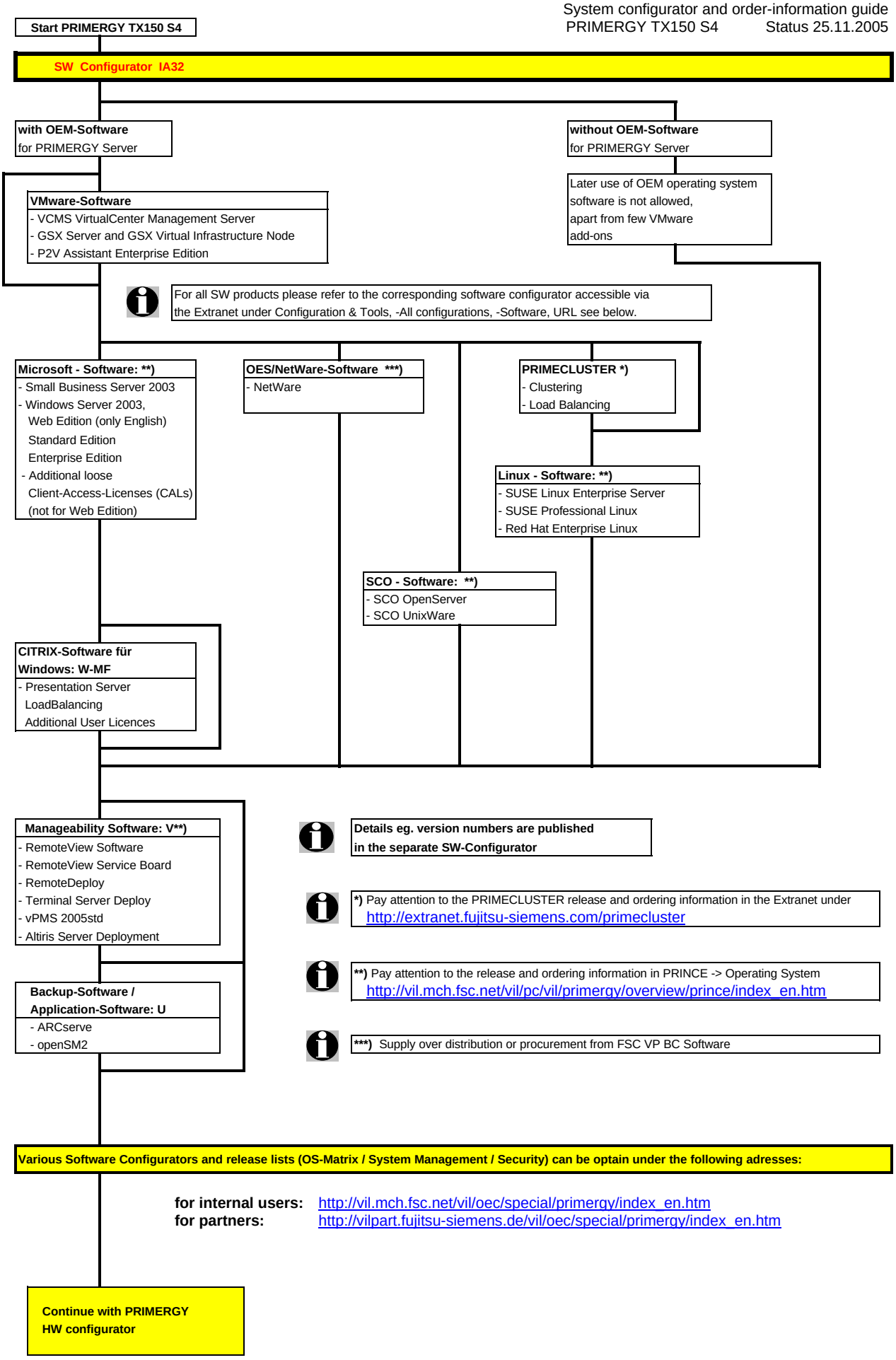

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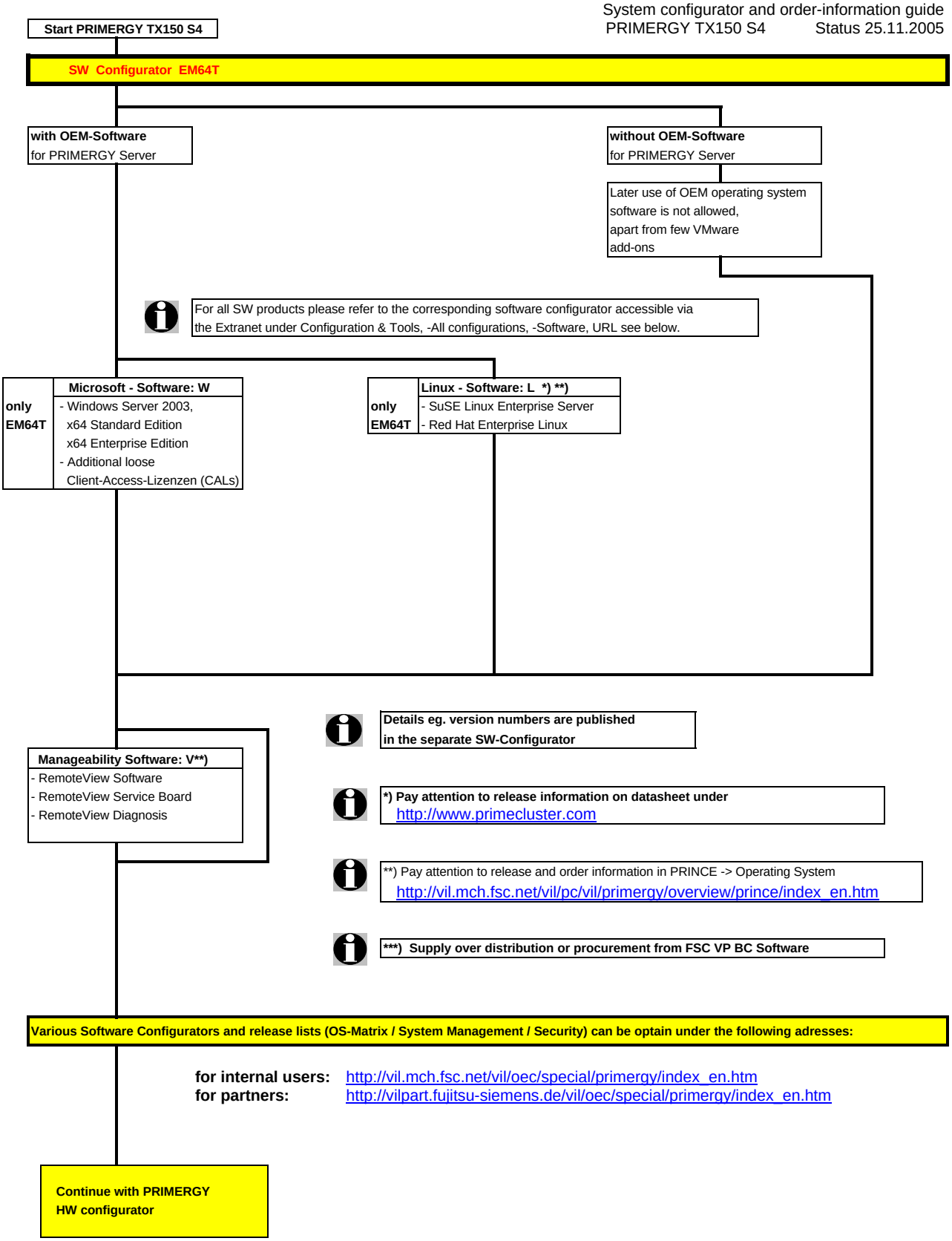

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Start PRIMERGY TX150 S4

Section | Basic unit

System unit consisting of:
*** Housing including standard power supply (no redundancy)**
*** Sliding screen with lock (only for floorstand version)**

Systemboard with:
*** 7 PCI slots:**
1x PCIe x 1
1x PCIe x 4 (x8 Slot)
1x PCI-X 66 long (3,3V)
1x PCI-X 66 (3,3V) ZCR Slot
1x long / 2x short 32Bit / 33MHz (5V)
*** 4 memory slots for up to 8GB (PC4200) registered DDR II RAM (ECC), max. 2GB modul per slot**
*** 1 drive bay 3.5" occupied by 1 floppy disk 1.44MB 1" height (optional)**
*** 3 Einbauplätze 5,25" für bedienbare Laufwerke**
*** 4 bays 1" for hot plug SCSI HD)**
*** ATI Range XL Graphic controller 8MB**
*** Intel Broadcom (5721) 10/100/1000 Mb/s on-board**
*** 1 x Fast-IDE (ATA) Controller on-board (for 1x 2 devices)**
*** 1-channel Ultra 320 SCSI Controller LSI 1020A on-board**
with HW RAID IME (IME = Integrated Mirroring Enhanced)

Options:
*** Hot plug PS or a second redundant hot plug PS version can be configured by ordering the appropriate upgrade option**
*** LSI Zero Channel RAID option, simultaneous use of HD and Tape Drive possible**

Cables:
1. IDE cable for CD/DVD
2. With SCSI variant wide LVD SCSI cable for connection of the HD backplane and two accessible drives

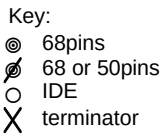
PS/2 mouse (only for floorstand version)

ServerStart packet incl. ServerBooks CD, ServerSupport CD and ServerView

External Interfaces:
2x RS-232-C (serial, 9 pins)
1x Centronics (parallel, 25 pins, EPP/ECP compatible)
1x keyboard (PS/2)
1x mouse (PS/2)
1x VGA (15 pins)
1x USB 2.0 on front and 2x USB 2.0 on rearside
1x LAN RJ45

Cables included in basic unit

Connections	Cable	PRIMERGY TX150 S4
1. IDE CD/DVD		
2. Backplane for 1x4 SCSI hard disks incl. terminator		



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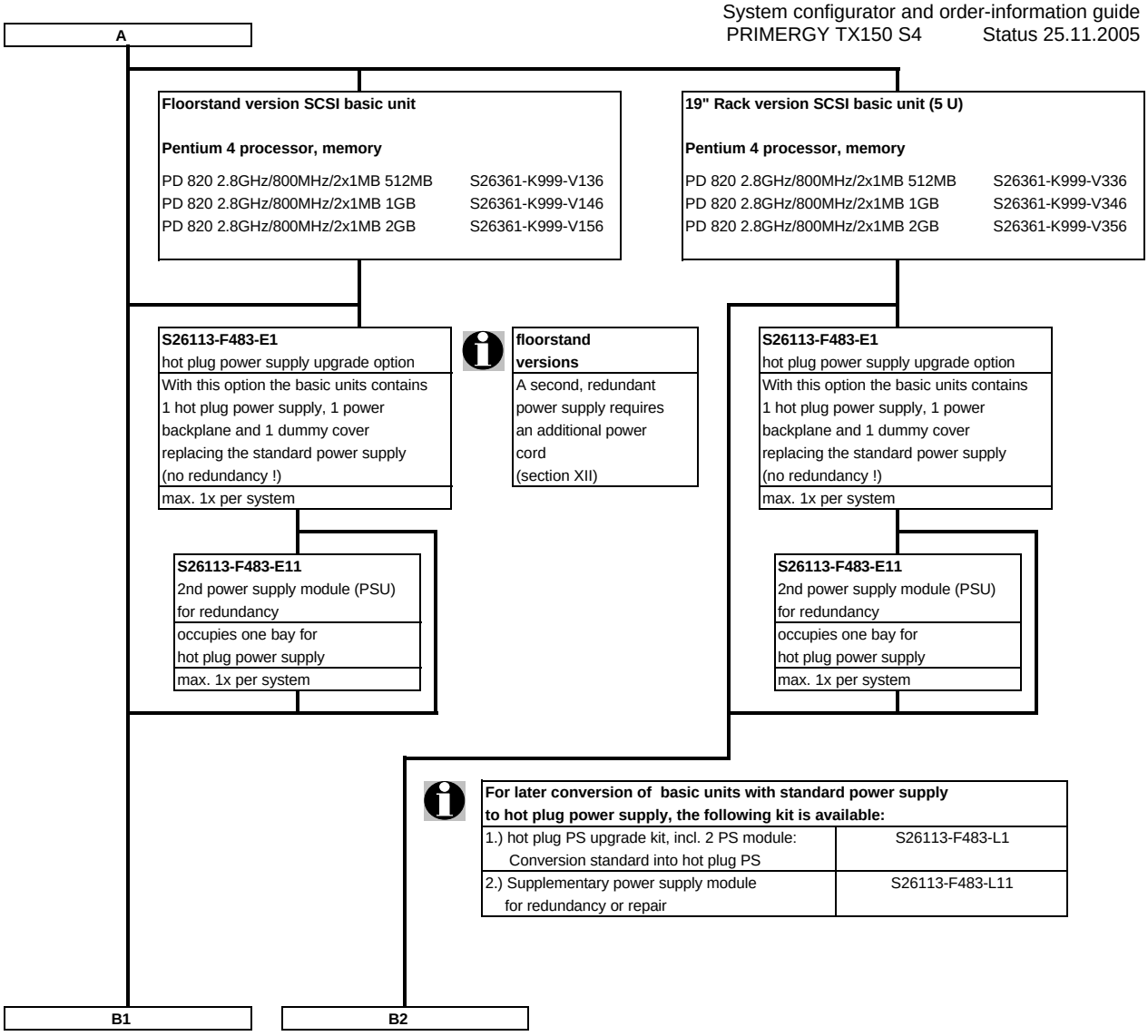

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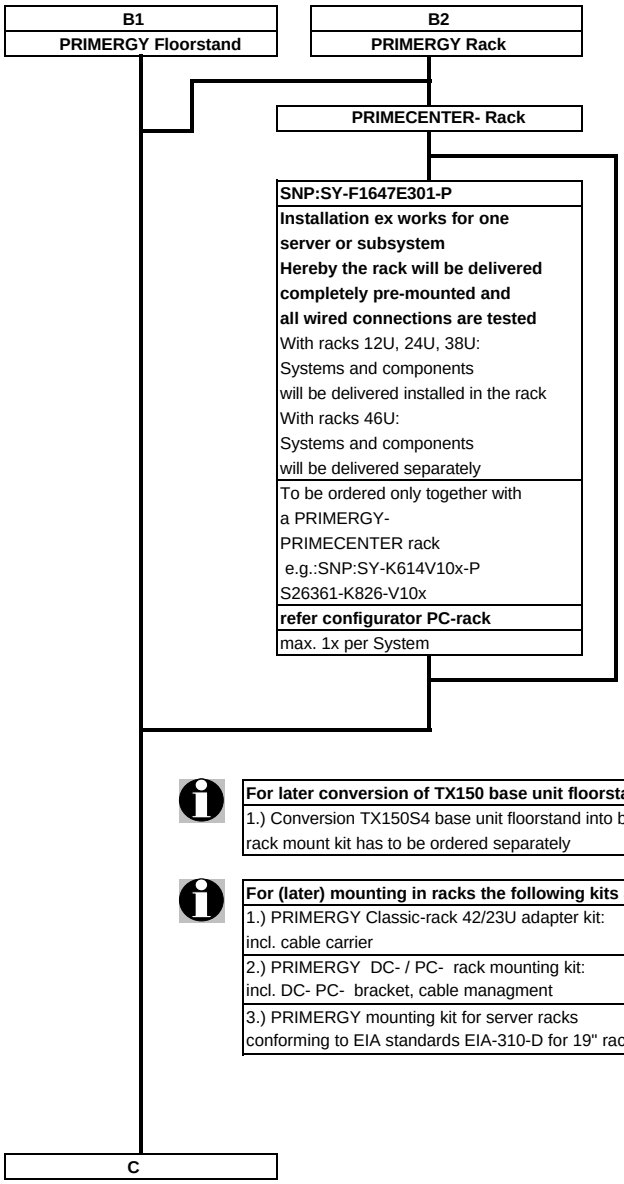

For later conversion of TX150 base unit floorstand into base unit rack the following kit is availible	
1.) Conversion TX150S4 base unit floorstand into base unit rack rack mount kit has to be ordered separately	S26361-F2618-L240

For (later) mounting in racks the following kits are available:	
1.) PRIMERGY Classic-rack 42/23U adapter kit: incl. cable carrier	S26361-F1331-L300
2.) PRIMERGY DC- / PC- rack mounting kit: incl. DC- PC- bracket, cable managment	S26361-F2734-L32
3.) PRIMERGY mounting kit for server racks conforming to EIA standards EIA-310-D for 19" racks.	S26361-F2734-L32

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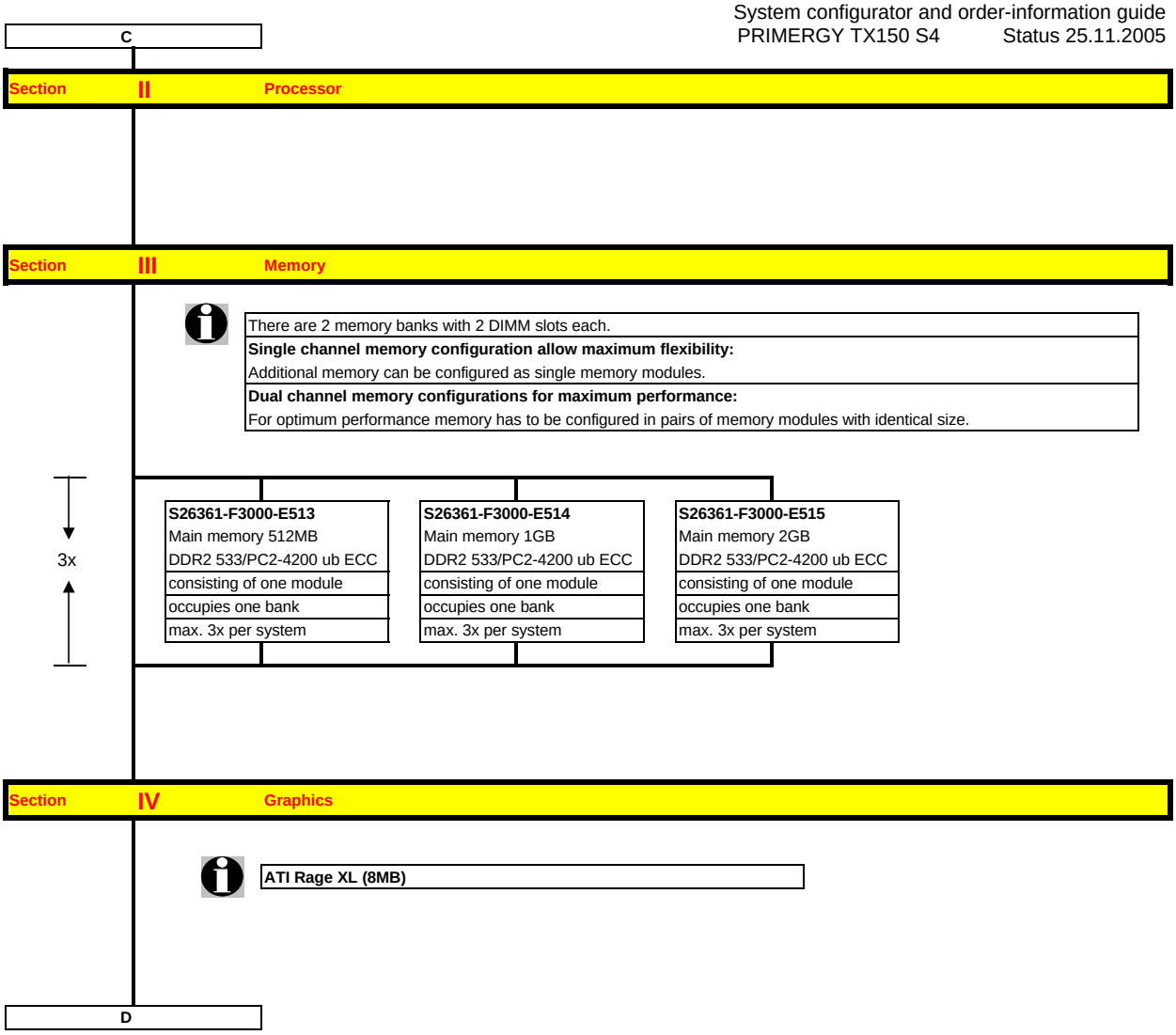

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Section V Accessible drives

There are 3x 5.25" bays for accessible drives:
- 1x 5.25" bay is occupied by a DVD-/CD- respectively a CD-RW drive
- 2 x 5.25" bays remaining, can be occupied by 2x accessible drives

Setup TX150 S4 by **ServerStart** is supported with following configurations:

no DVD, no CD:
remote installation only (PXE service & DHCP server required)

built in CD/DVD:
UNC Network share reachable or USB Floppy or MemoryBird connected

One of the following **USB** devices **must be used** for integrating the drivers during installation process if no automized (e.g. Serverstart / Altiris / RIS / ADS / ...) installation is done:

1) FDD USB (external): external USB FDD (USB cable included)	S26391-F264-L226
2) USB Memorybird: Memorybird 256 MB	S26391-F6046-L256
Memorybird 1GB	S26391-F6046-L24

S26361-F2575-E1
Floppy disk drive 1"
Connector: 26pin
incl. description (Ger/US)
1" * 3.5", anthracite bezel
max. 1x per system

2x

SNP:SY-F2234E1-A
DVD-ROM ATAPI
incl. description (Ger/US)
1.6 x 5.25", anthracite bezel
max. 2x per system

S26361-F3148-E1
DVD-RW 16x super multi drive
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
1.6 x 5.25", anthracite bezel
max. 1x per system

S26361-F3157-E3
Tape drive LTO2HH Ultrium
200GB, 24MB/s, U160 SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", anthracite bezel
max. 1x per system

2x

S26361-F2849-E3
Tape drive VXA-2
80GB, 6MB/s, U2W SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning catridge
1.6 x 5.25", anthracite bezel
max. 2x per system

S26361-F2848-E3
Tape drive DDS Gen5
S26361-F2848-E31 (only for OBDR)
DDS-G5 for One buttom dis. recov.
36GB, 3MB/s, U2W SCSI
Connector: HD68
without cable
incl. description (Ger/US)
data and cleaning catridge
1.6 x 5.25", anthracite bezel
max. 2x per system

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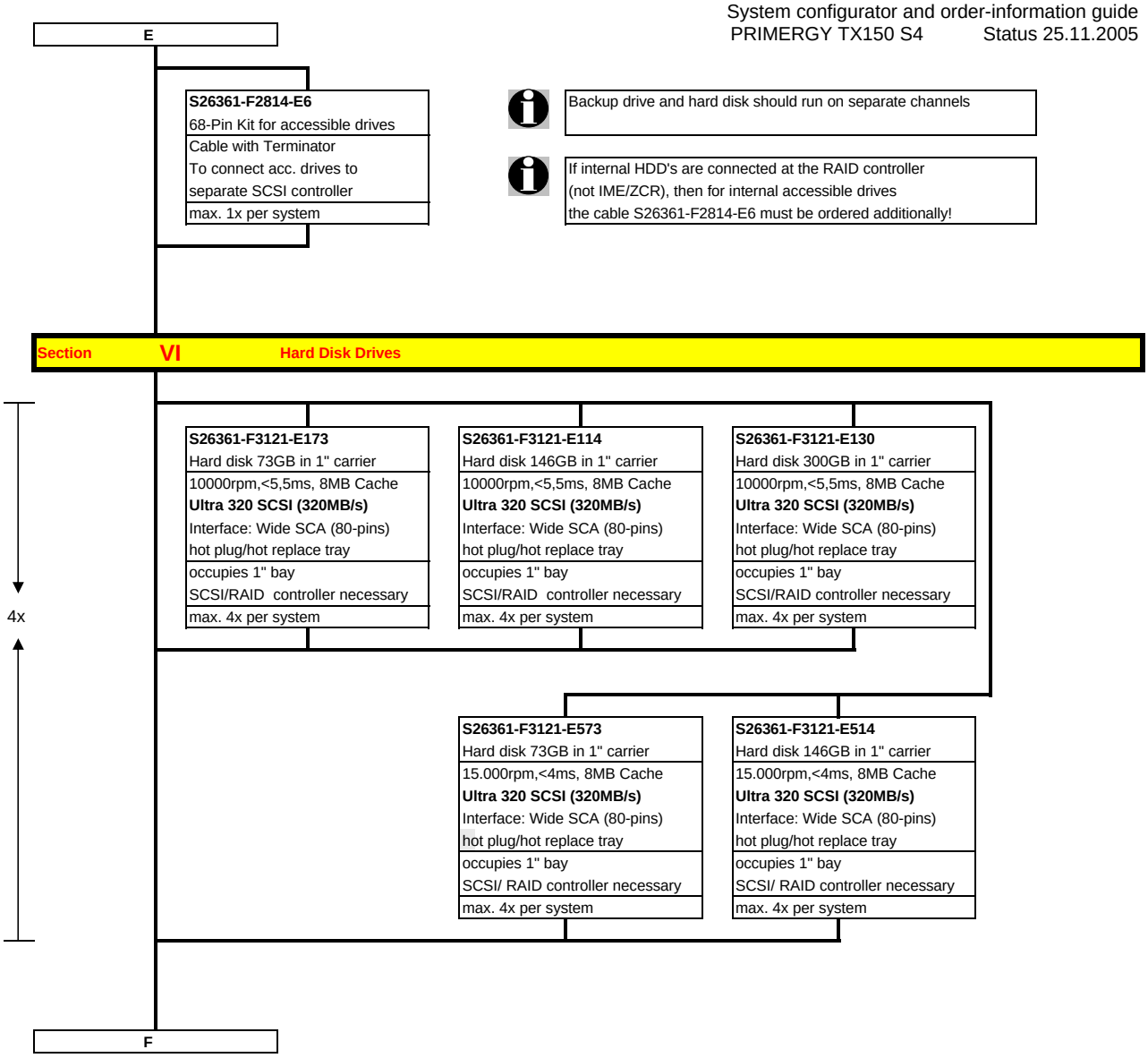

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Section VII SCSI-Controller

All internal cables and adapters are included within the basic units and components respectively

Cabeling priorities:

internal HDs are cabled according to following priorities.
(Prio 1 - 3):

1.) For a configuration without any Disk Array Controller and without zero channel RAID
the onboard U320 Controller is connected to the internal HDs.

2.) For a configuration with a 2-channel Disk Array controller (without zero-channel RAID)
One channel will be connected with the internal hard disks.
The second channel is externally available.

internal backup devices are cabled according to following priorities.
(Prio 1 - 2):

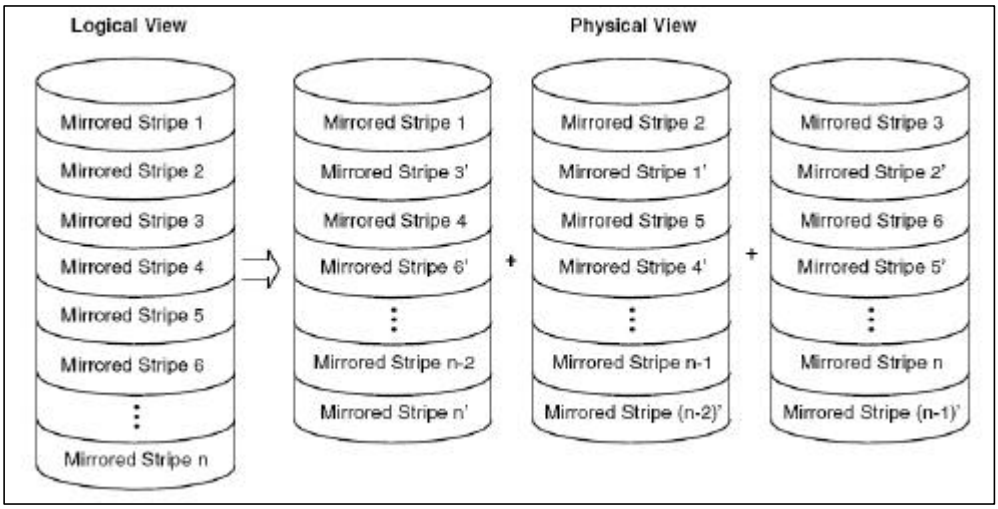
1) For a configuration without additional SCSI controller
the onboard U320 controller is connected to internal backup devices

2) For a configuration with Adaptec SCSI Card 29160 S26361-F2399-E2 (without SCSI 160 controller S26361-F2644-E11)
this controller is connected to internal backup devices

A. on-board SCSI-controller for accessible drives and SCSI-HDs

1-channel Ultra 320 SCSI on-board controller; included as standard.

Example for IME with 3 data devices:



LSI Integrated Mirroring Enhanced (IME) is a RAID 1 implementation (no RAID 0 support). It can be operated also with an odd number of hard disks (max. one RAID 1 Set). There are, depending on system, up to 6 hard disks, including a hot spare disk, possible. Supportet are only the operating systems Windows2000/2003 as well as SuSE and RedHat Linux.

All internal cables and adapters for the basic unit and for components are included.

1x per TX150S4

T26139-Y3849-L1
External on-board SCSI Interface
Cable and external connector interface (HD68)
occupies one connection panel
max. 1x per system for ext.

Only SX10 Backup is released for the external connection of the on-board SCSI controller and the 29160.
Cable sold separately not mounted in factory.
Use this cable only if on-board controller is not used otherwise (eg. S26361-F2814-E6)

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B. SCSI controller for internal backup drives

S26361-F2399-E2
SCSI 160 Controller
Adaptec SCSI Card 29160
1 channel: LVD + Fast/ Ultra (decoupl.)
LVD connect. for HD, without cable
Fast/Ultra connect. for acc. drives
64/66 PCI, min 180 mm
int: Fast 50-pin or Ultra HD68
+ LVD HD68; ext: HD68(LVD)
SW:
max. 1x per system

S26361-F2814-E6
68-Pin Kit for accessible drives
Cable with Terminator
To connect acc. drives to
separate SCSI controller
max. 1x per system

C. SCSI controller for external drives and peripheral devices

S26361-F2399-E1
SCSI U160 controller
Adaptec SCSI Card 29160
1 channel: LVD + Fast/ Ultra (decoupl.)
LVD connect. for HD, without cable
Fast/Ultra connect. for acc. drives
64/66 PCI, min 180 mm
int: Fast 50 pol oder Ultra HD68
+ LVD HD68; ext: HD68(LVD)
SW:
max. 1x per system

Only SX10 Backup is for external connection at the SCSI controller.

Section VIII Disk Array

max. 4x

D. LSI - Controller

1-channel Ultra 320 SCSI on-board controller with LSI Integrated Mirroring (IME)
Standard SCSI-cabling of a PRIMERGY TX150 S4 basic unit with on-board controller
Ultra 320 SCSI controller is connected to the internal hard disks and internal backup devices, if no additional HD/backup device controllers are configured.
1x per PRIMERGY TX150 S4

D. zero-channel RAID controller (320-0x) for internal Disk Array and additional RAID controllers for internal / external Disk Array

S26361-F3085-E128
0-channel RAID controller
LSI
320-0x
128MB SDRAM ECC Cache
BBU optional
in combination with on-board
U320 SCSI controller
without cable
64Bit/133MHz PCI-X controller
3.3V power supply & signaling
max. 1x per system

Zero channel RAID controller LSI must be installed in the blue marked bay.

With zero channel RAID controller the IME function is no longer available.

S26361-F3085-E10
Cache Battery Backup Unit
max. 1x pro Controller

to be continued on next page

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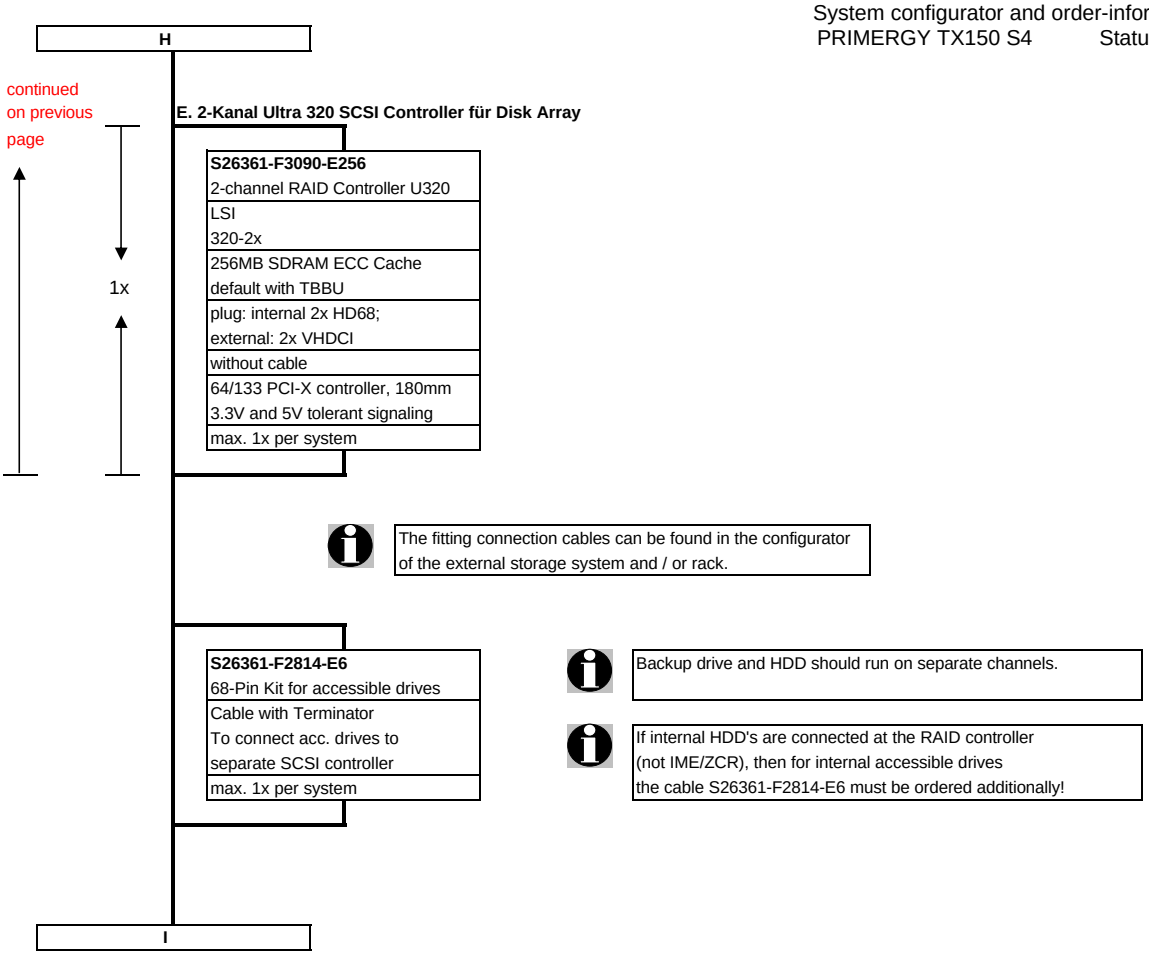

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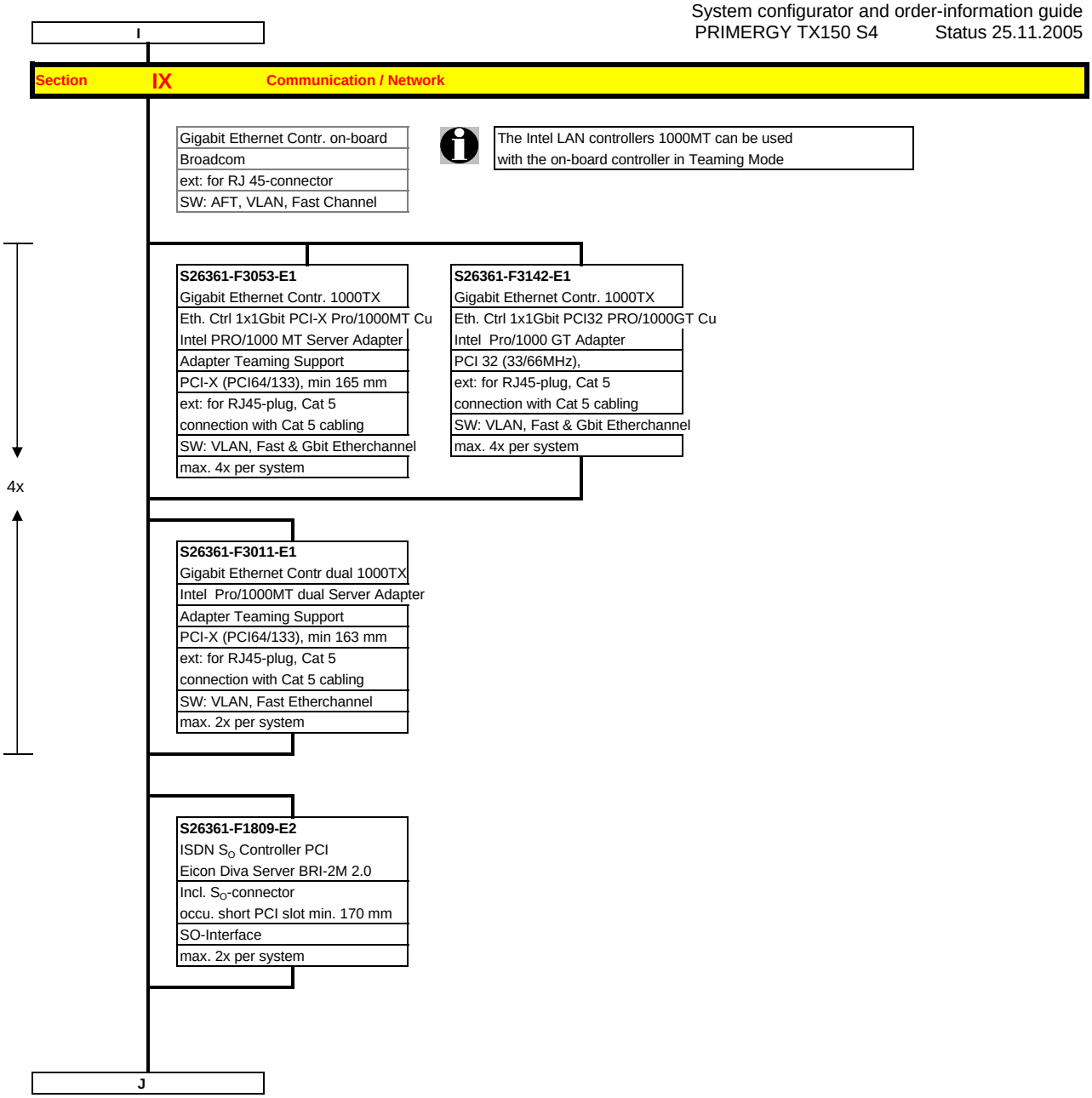

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Section X System management options

S26361-F2425-E103 **RSB S2 LP 3HU**
RemoteView Service Board S2 Low Profile Version with 3 U bracket for one **standard** PCI-slot
incl. cables and RV SW
max. 1x per system

S26361-F2425-E305 **RSB S2 LP external power supply**
RemoteView Service Board S2 low profile external power supply
including power cable with Euro- and Euro socket connector

Section XI Miscellaneous

S26361-F1652-L4 Modem external 56kbps (V.90)
MultiTech MT5643ZBA-Global
international approval
incl. 2m Telephon cord RJ11/RJ11 Adapter Plug RJ11/TAE Serial Interface cable DB25m / DB9f AC-Adapter w. German Power Cord
occupies one COM port
max. 1x per system

In connection with rack configurations
the install variant of the modem
(S26361-F1652-E4) has to be ordered
(see rack configurator)

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Section XII Country specific / rack specific options

A country specific power cord has to be ordered for all floorstand versions:
- once per basic unit and an additional second cable
- if an second hot plug, redundant power supply modul is ordered.

max. 2 x

PRIMERGY TX150 S4 Floorstand

Power cord for following countries:
1,8 m, grey

T26139-Y1740-E10	D, A, B, F, NL, FIN, S, N, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10	UK, Ireland
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y3850-E10	No power cord as order option

PRIMERGY TX150 S4 Rack

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. (1x with Standard PSU, 2x with hot plug upgrade)

T26139-Y1742-E10 USA, Canada
For shipments to USA&Canada, you have to order one power cord (1,8m, grey) per power supply.

Attention: For connection of a monitor to the system an additional country specific power cord has to be ordered as option.

Power cord for optional monitor connection for the following countries:
1.8m, grey

T26139-Y1740-L10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-L10	USA, Canada
T26139-Y1743-L10	Switzerland
T26139-Y1744-L10	UK, IR
T26139-Y1745-L10	Italy
T26139-Y1746-L10	Denmark

Powercord 3-way splitter 1M to 3F
0.78m, grey
T26139-Y3692-L1
Adapter for the connection of up to 3 PS-modules or up to 2 PS-modules and one monitor to the mains connection.
Both, standard and hot plug power supplies, are supported.

Other options and Peripherals
For other options refer to the section "Product-specific options
These options are supplied loose with the shipment.
For suitable peripherals for this product refer to the section "Peripherals/communication".

Option for Floorstand

keyboards for floorstand versions for following countries:

S26381-K397-E110	USA / international
S26381-K397-E120	Germany
S26381-K397-E140	France
S26381-K397-E155	Sweden / Finland
S26381-K397-E165	United Kingdom
S26381-K397-E180	Spain
S26381-K397-E185	Italy

End PRIMERGY TX150 S4

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Cange Report

Date	Order number	Changes
2005-11-23	S26361-F1809-E2	ISDN SO Controller PCI Eicon Diva Server BRI-2M 2.0 - now available
2005-03-31		First release

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