FUJITSU COMPUTERS SIEMENS

PRIMERGY TX120

System configurator and order-information guide

November 2007

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PRIMERGY Server

Instructions

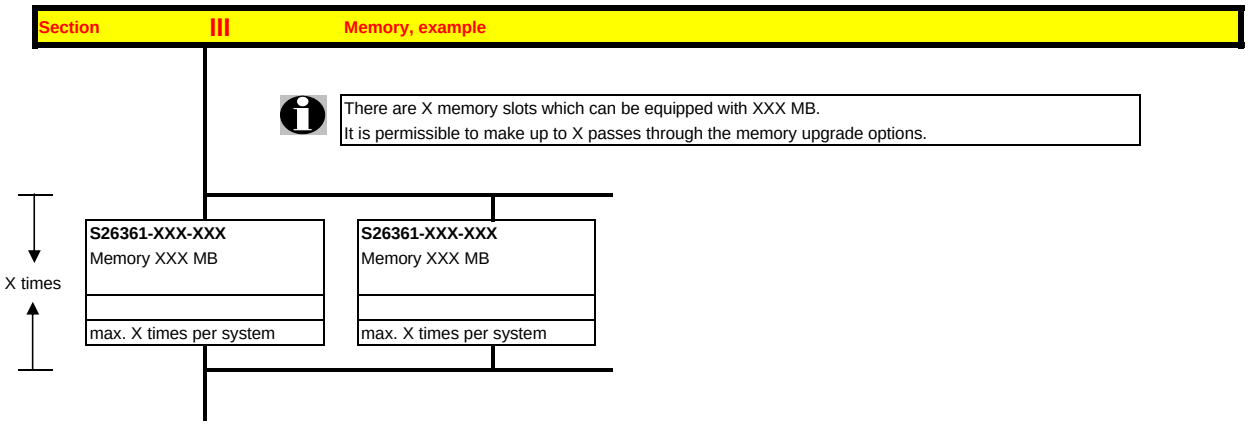
This document contains basic product and configuration information that will enable you to configure your system via PC-/ System-Architect.

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)

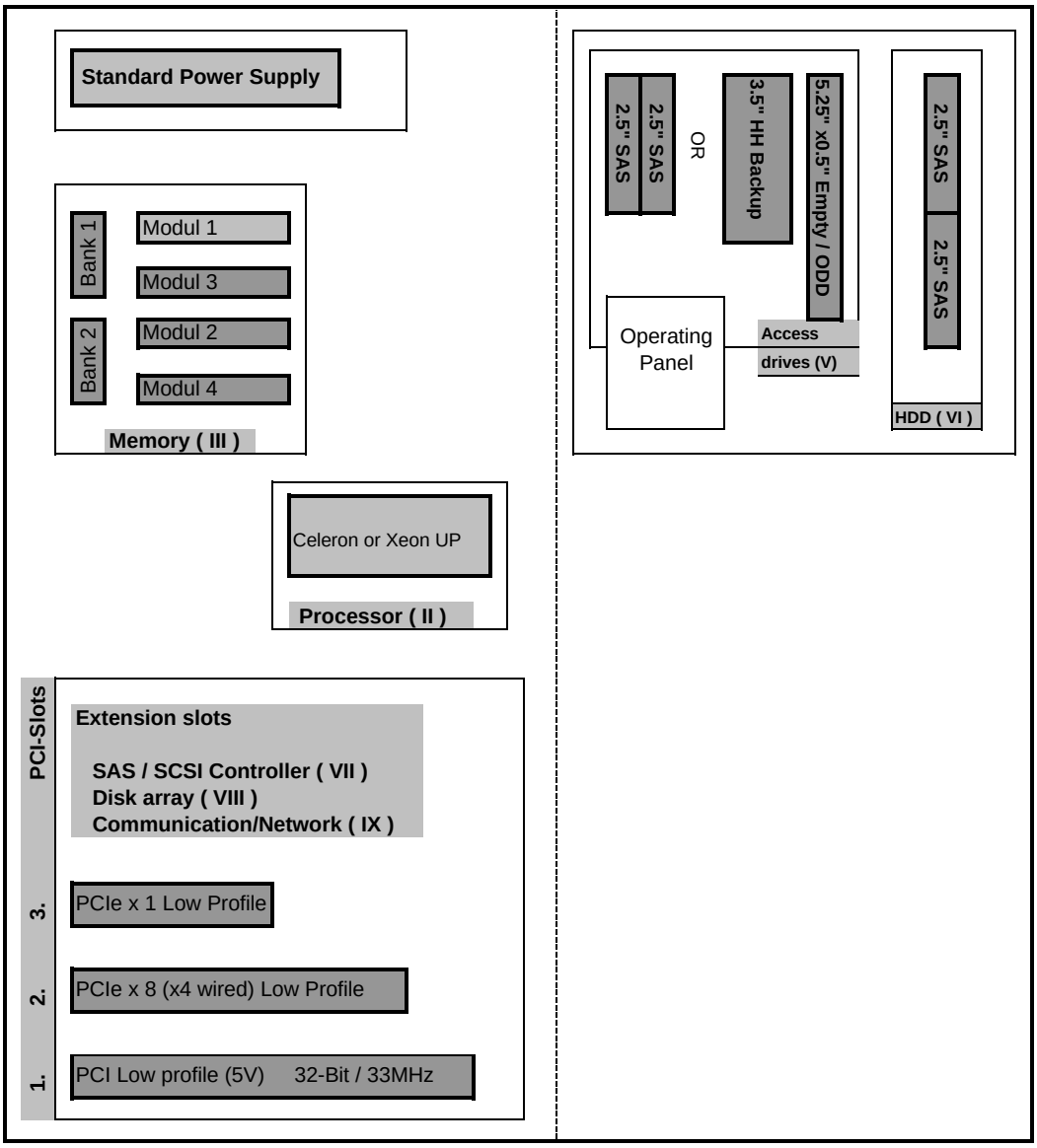
http://extranet.fujitsu-siemens.com/primergy (extranet)

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

Configuration diagram PRIMERGY TX120

System unit (I)

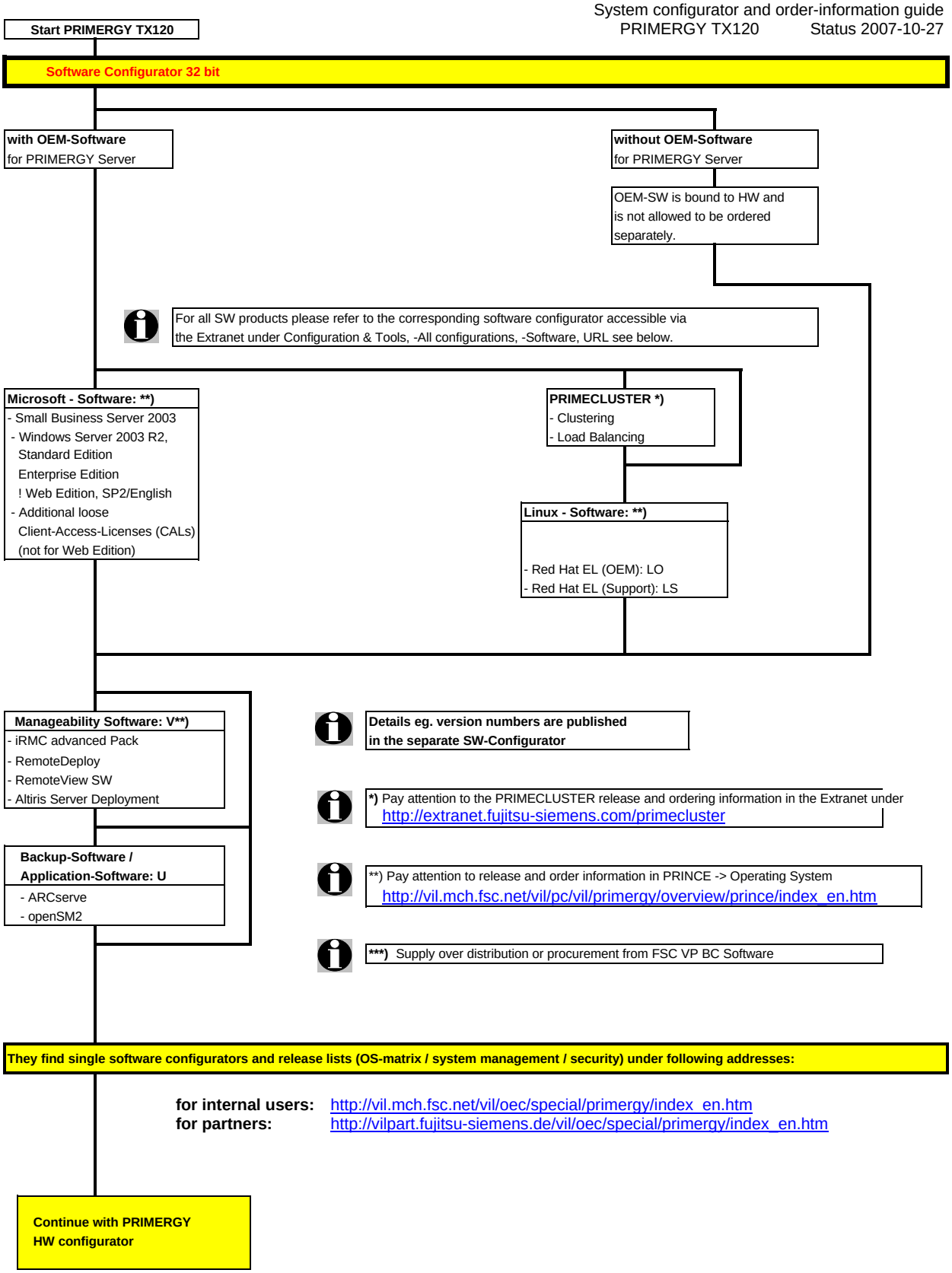
SIDE VIEW **FRONT VIEW**

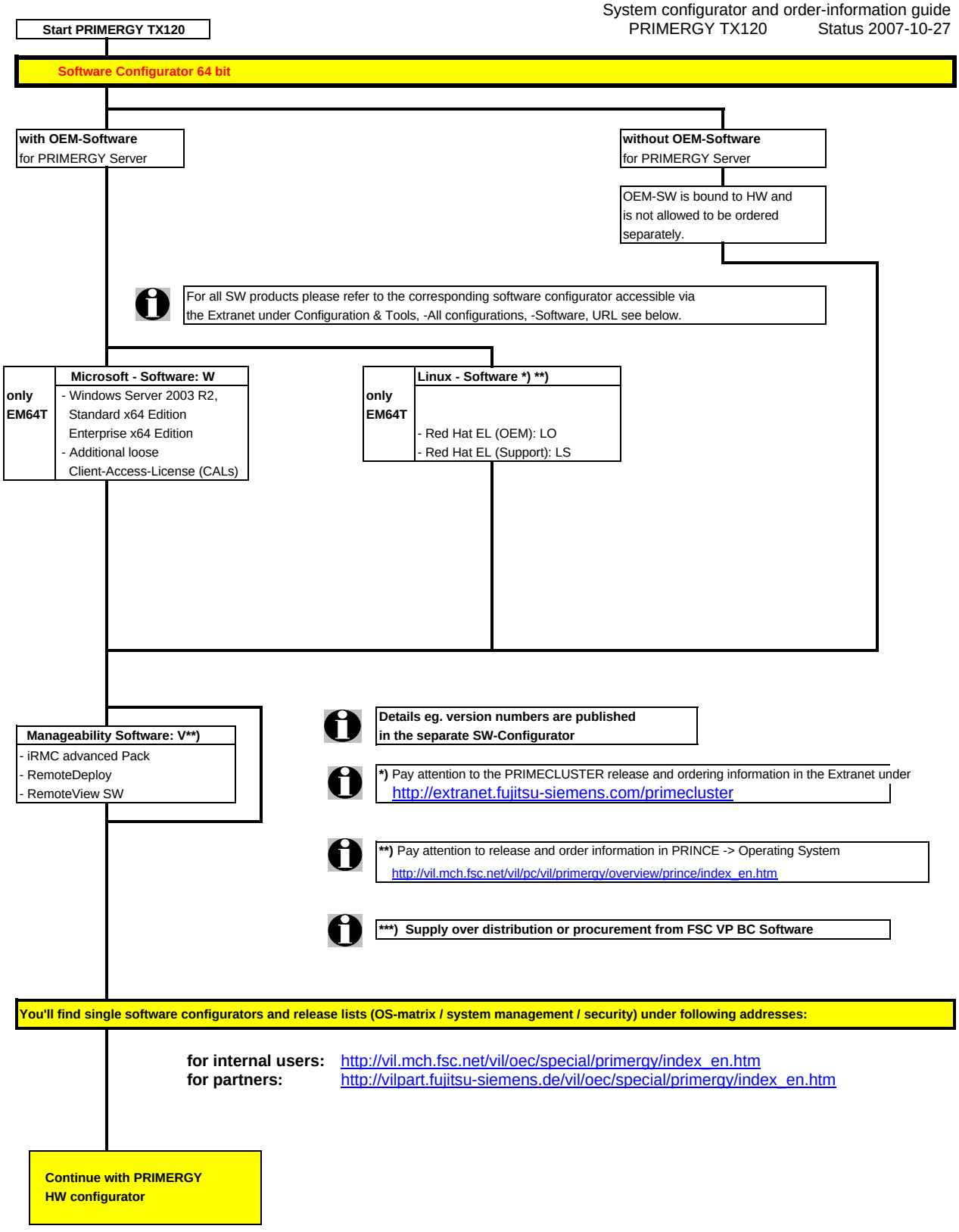


Key:

Included in basic unit

Option


Start PRIMERGY TX120
Software Configurator 32 bit
with OEM-Software
for PRIMERGY Server
without OEM-Software
for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately.
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: **)
- Small Business Server 2003
- Windows Server 2003 R2, Standard Edition Enterprise Edition ! Web Edition, SP2/English
- Additional loose Client-Access-Licenses (CALs) (not for Web Edition)
PRIMECLUSTER *)
- Clustering
- Load Balancing
Linux - Software: **)
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
Manageability Software: V**)
- iRMC advanced Pack
- RemoteDeploy
- RemoteView SW
- Altiris Server Deployment
Backup-Software / Application-Software: U
- ARCserve
- openSM2
Details eg. version numbers are published in the separate SW-Configurator
*) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under http://extranet.fujitsu-siemens.com/primecluster
**) 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
***) Supply over distribution or procurement from FSC VP BC Software
They 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 TX120
Software Configurator 64 bit
with OEM-Software
for PRIMERGY Server
without OEM-Software
for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately.
For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.
only EM64T
Microsoft - Software: W
- Windows Server 2003 R2, Standard x64 Edition Enterprise x64 Edition
- Additional loose Client-Access-License (CALs)
only EM64T
Linux - Software *) **)
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
Manageability Software: V**)
- iRMC advanced Pack
- RemoteDeploy
- RemoteView SW
Details eg. version numbers are published in the separate SW-Configurator
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**) 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
***) Supply over distribution or procurement from FSC VP BC Software
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 TX120

Section | Basic unit

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

Systemboard with:
*** 3 PCI slots:**
1x PCIe x 1
1x PCIe x 4 (x8 Slot)
1x PCI Low Profile 32Bit / 33MHz (5V)
*** 4 memory slots for up to 8GB (PC2-5300) unbuffered DDR2 RAM (ECC), max. 2GB modul per slot**
*** 2 bays for accessible drives: 1x 3.5" + 1x 5.25" (occupied by optical drive)**
*** 2 (4) bays 1" for hot-plug SAS HD**
*** Intel Broadcom (5754) 10/100/1000 Mb/s on-board**
*** 1 x Fast-IDE (ATA) Controller on-board (for 1x 2 devices)**
*** 4-Port SAS Controller LSI 1064 on-board**
with HW RAID IME (IME = Integrated Mirroring Enhanced)
*** iRMC (integrated Remote Management Controller) on-board server management and graphics controller**
Resolution: 1280 x 1024 at 8bpp or 1024 x 768 at 16 bpp

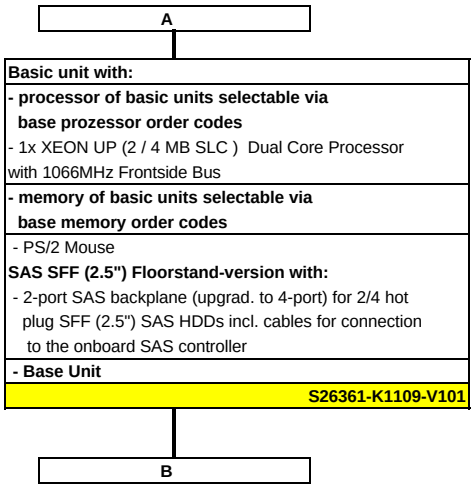
Cables:
1. IDE cable for DVD
2. SAS cable for connection of the HD backplane (also for HDD extension box)

PS/2 mouse

ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

Interfaces:
1x RS-232-C (serial, 9 pins)
1x keyboard (PS/2)
1x mouse (PS/2)
1x VGA (15 pins)
5x USB 2.0 (2x external at the rear, 2x external at the frontside,
1x internal USB Interface with connector type B for backup devices - cable is delivered with Backup device)
1x LAN RJ45 + 1 x Service LAN

A


A
Basic unit with:
- processor of basic units selectable via
base prozessor order codes
- 1x XEON UP (2 / 4 MB SLC) Dual Core Processor
with 1066MHz Frontside Bus
- memory of basic units selectable via
base memory order codes
- PS/2 Mouse
SAS SFF (2.5") Floorstand-version with:
- 2-port SAS backplane (upgrad. to 4-port) for 2/4 hot
plug SFF (2.5") SAS HDDs incl. cables for connection
to the onboard SAS controller
- Base Unit
S26361-K1109-V101
B

B

Section II Processor

Note: The CPU is not included in the base unit and has to be configured separately.**

** see note above

1x

S26361-F3264-E304	S26361-F3264-E307	S26361-F3264-E440
CPU Xeon UP 3040 DC	CPU Xeon UP 3070 DC	CPU Celeron 440
1.86GHz/1066MHz/2MB	2.66GHz/1066MHz/4MB	2.00GHz/800MHz
occupies socket for one CPU	occupies socket for one CPU	occupies socket for one CPU
max. 1x per system	max. 1x per system	max. 1x per system

Section III Memory

There are 2 memory banks with 2 DIMM slots each.
Single channel memory configuration allow maximum flexibility:
Additional memory can be configured as single memory modules.
Dual channel memory configurations for maximum performance:
For optimum performance memory has to be configured in pairs of memory modules with identical size.
Note: Memory is not included in the base unit and has to be configured separately, min 1x.**

** see note above

4x

S26361-F3237-E513	S26361-F3237-E514	S26361-F3237-E515
Main memory **512MB**	Main memory **1GB**	Main memory 2**GB**
DDR2 667/PC2-5300 ub ECC	DDR2 667/PC2-5300 ub ECC	DDR2 667/PC2-5300 ub ECC
consisting of one module	consisting of one module	consisting of one module
occupies one slot	occupies one slot	occupies one slot
max. 4x per system	max. 4x per system	max. 4x per system

Section IV Graphics

Graphics Controller is included in integrated remote Management Controller iRMC.
(1280 x 1024 at 8bpp, 1024 x 768 at 16bpp, Resolution 85Hz)

S26361-F2748-E631
PY VGA LP card 128MB PCI-e x1
NVIDIA NVS285 128 MB PCIe-x1
2x DVI or 2x VGA or 1x DVI plus 1x VGA cables adapters included
Dual head + fully 3-D supported for Windows OS not supported for Linux OS (native)
low profile bracket
max. 1x per system

The hight end optional NVIDIA NVS285 graphic card offers dual head operation and fully 3D video support.
The cables for either two times DVI or VGA connections are part of the delievery.
Remote Video direction via iRMC must be disabled.
This PCIe-x1 card can also be installed in any PCIe-x4, x8 or x16 slot.
Only one card per server is allowed.
Hint: Graphics controller can be configured in Slot 3 only (PCIe x1)

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Section V Accessible drives

There are 2x 5.25" bays for accessible drives:
- 1x 5.25" bay is occupied by a 0.5" DVD respectively a DVD-RW drive
- 1 x 3.5" bay remaining, can be occupied by 1x 1.6" backup drive **or** 2x 2.5" HDD

Setup of PRIMERGY TX120 by ServerStart is supported with following configurations:

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

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

If installation is done locally, make sure you have internal
or external FDD available for driver installation.

Following USB Components are available	
1) USB DVD+-RW:	S26391-F7119-L100
Super Multi DVD slim drive	(USB cable included)
2) FDD USB (external):	S26391-F264-L226
external USB FDD	(USB cable included)
3) USB Keyboard:	S26381-K340-V120
KBPC PX D, professional keyboard	
4) USB Mouse:	S26381-K415-L100
Optical Wheel Mouse Tilt USB/PS2	
5) USB Memorybird:	
Memorybird 2GB	S26391-F6047-L102
Memorybird 4GB	S26391-F6047-L104

S26361-F3123-E1
CD-RW / DVD drive 0.5"
24/24/24x / 8x ATAPI
CD-RW only with W2K, W3K, Linux
0.5 x 5.25", anthracite bezel
max. 1x per system

S26361-F3236-E1
DVD-RW 8x super multi drive
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
0.5 x 5.25", anthracite bezel
max. 1x per system

S26361-F3324-E2
Tape drive DDS Gen5 USB 3.5"
36GB, 3MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 x 3.5", anthracite bezel
max. 1x per system

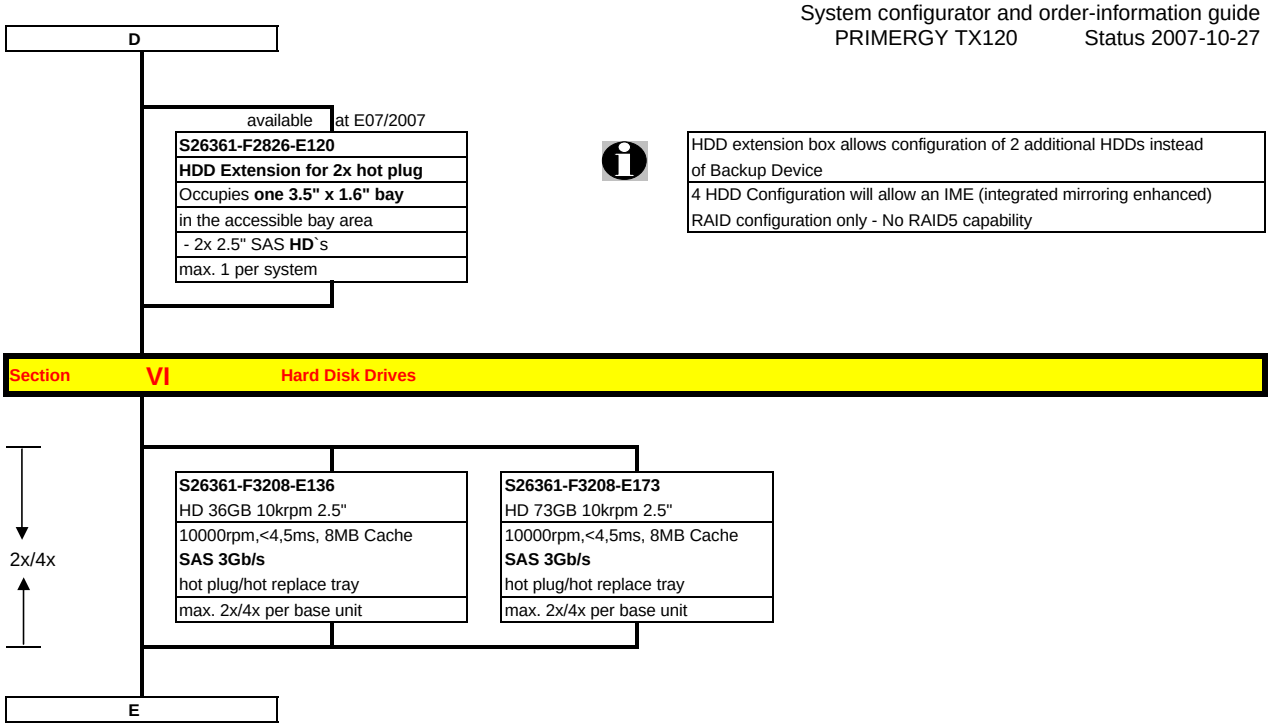
S26361-F3324-L2
Loose delivery of
Tape drive DDS Gen5 USB 3.5"

as soon as available

S26361-F3857-E2
RDX drive USB 3.5" internal
80-160GB, 25MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
without RDX cartridges
1.6 x 3.5", anthracite bezel
max. 1x per system

RDX cartridges must be ordered separately
RDX 80GB = S26361-F3857-L80
RDX 120GB = S26361-F3857-L120
RDX 160GB = S26361-F3857-L160 (later)

D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available at E07/2007
S26361-F2826-E120
HDD Extension for 2x hot plug
Occupies one 3.5" x 1.6" bay
in the accessible bay area
- 2x 2.5" SAS HD`s
max. 1 per system
HDD extension box allows configuration of 2 additional HDDs instead of Backup Device
4 HDD Configuration will allow an IME (integrated mirroring enhanced) RAID configuration only - No RAID5 capability
Section VI Hard Disk Drives
2x/4x
S26361-F3208-E136
HD 36GB 10krpm 2.5"
10000rpm,<4,5ms, 8MB Cache
SAS 3Gb/s
hot plug/hot replace tray
max. 2x/4x per base unit
S26361-F3208-E173
HD 73GB 10krpm 2.5"
10000rpm,<4,5ms, 8MB Cache
SAS 3Gb/s
hot plug/hot replace tray
max. 2x/4x per base unit
E

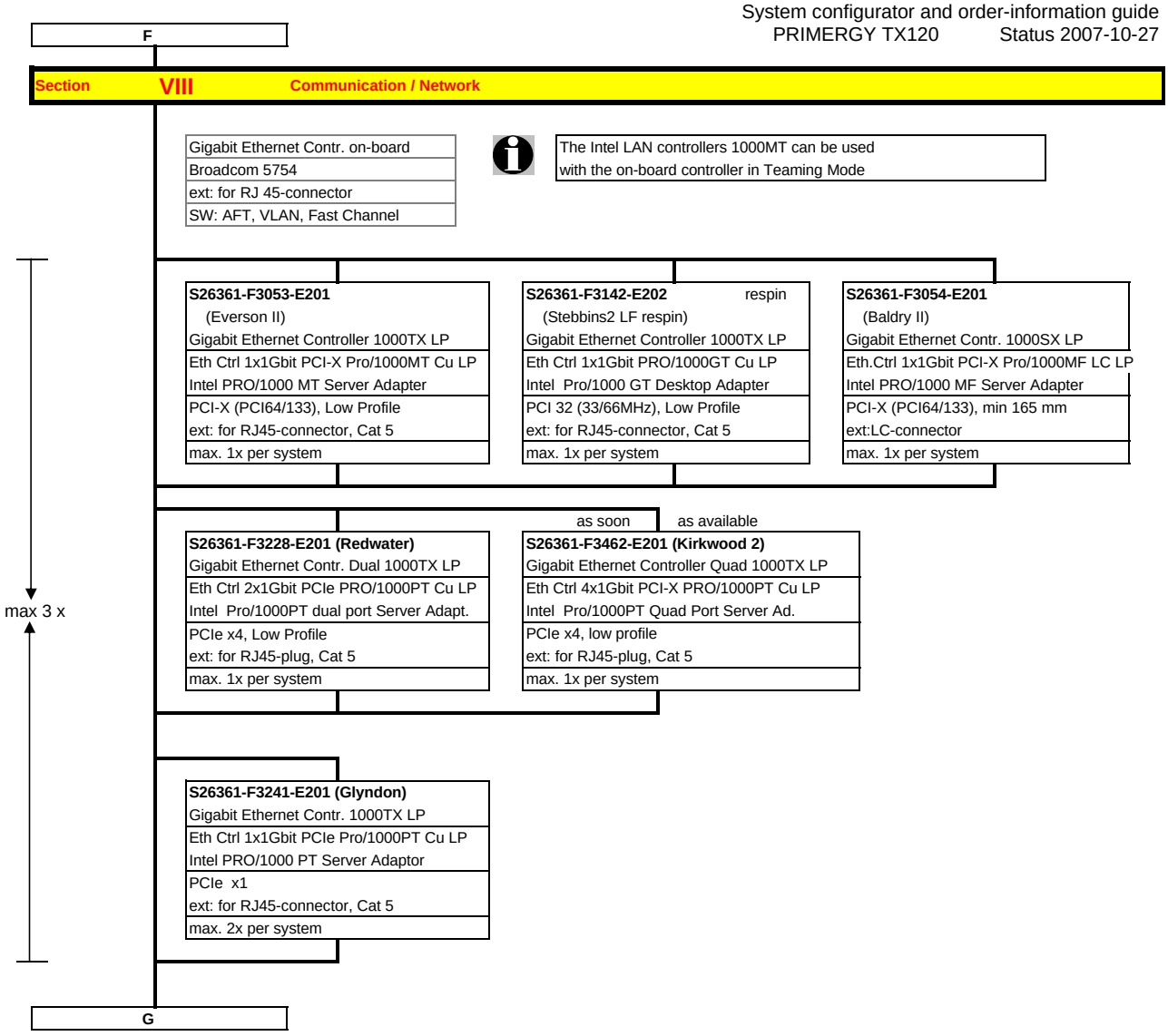
E

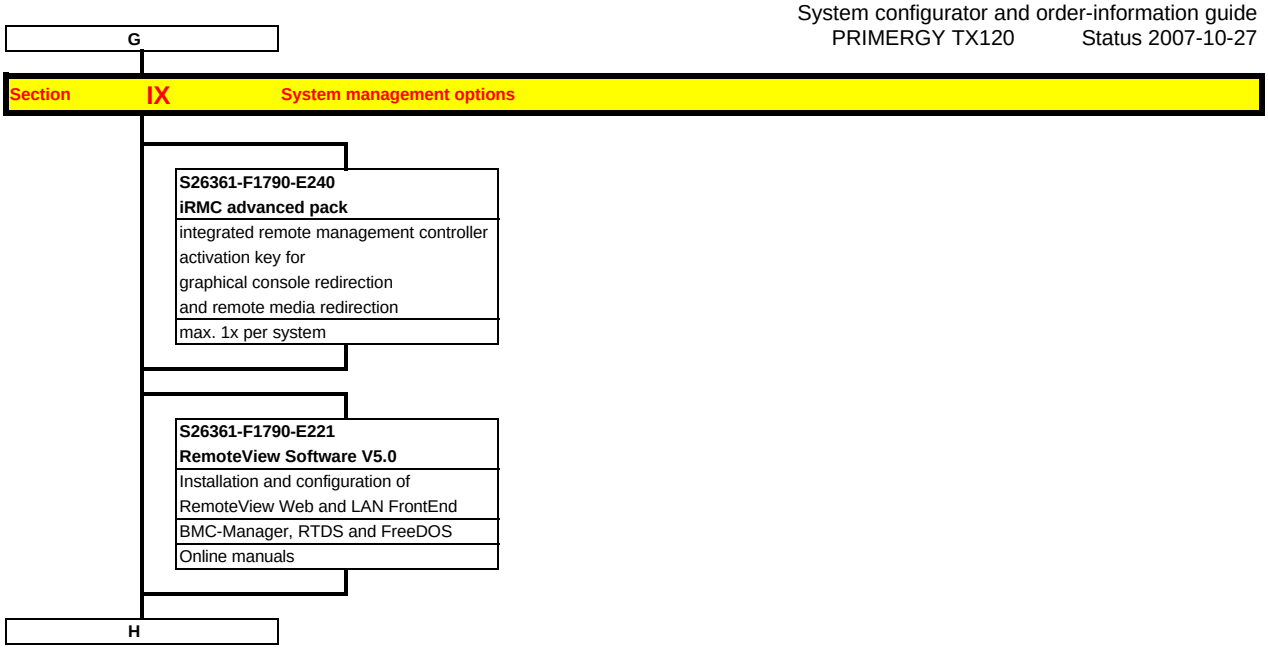
Section VII Disk Array

on-board LSI - Controller

The system is equipped with a four channel SAS on-board controller and embedded "IME". IME (Integrated Mirroring Enhanced) offers the RAID levels 0, 1, 1E without any additional costs. IME is a RAID 0, 1 implementation, whereby RAID 1 can operate with an odd number of hard disks. Up to 4 hard disks including one hot spare HD are possible (limited by HHD slots in system). Administration of IME is possible with the FSC tool ServerView RAID. Windows 2003 as well as SUSE and RedHat Linux are supported (Restrictions refer to Software Configurator) The SAS IME solution supports 2 independent RAID volumes. **No mixed configurations with SAS and SATA HD`s released**
No additional components required.

F


F
Section VIII Communication / Network
Gigabit Ethernet Contr. on-board
Broadcom 5754
ext: for RJ 45-connector
SW: AFT, VLAN, Fast Channel
The Intel LAN controllers 1000MT can be used with the on-board controller in Teaming Mode
S26361-F3053-E201
(Everson II)
Gigabit Ethernet Controller 1000TX LP
Eth Ctrl 1x1Gbit PCI-X Pro/1000MT Cu LP
Intel PRO/1000 MT Server Adapter
PCI-X (PCI64/133), Low Profile
ext: for RJ45-connector, Cat 5
max. 1x per system
S26361-F3142-E202 respin
(Stebbins2 LF respin)
Gigabit Ethernet Controller 1000TX LP
Eth Ctrl 1x1Gbit PRO/1000GT Cu LP
Intel Pro/1000 GT Desktop Adapter
PCI 32 (33/66MHz), Low Profile
ext: for RJ45-connector, Cat 5
max. 1x per system
S26361-F3054-E201
(Baldry II)
Gigabit Ethernet Contr. 1000SX LP
Eth.Ctrl 1x1Gbit PCI-X Pro/1000MF LC LP
Intel PRO/1000 MF Server Adapter
PCI-X (PCI64/133), min 165 mm
ext:LC-connector
max. 1x per system
max 3 x
as soon
as available
S26361-F3228-E201 (Redwater)
Gigabit Ethernet Contr. Dual 1000TX LP
Eth Ctrl 2x1Gbit PCIe PRO/1000PT Cu LP
Intel Pro/1000PT dual port Server Adapt.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system
S26361-F3462-E201 (Kirkwood 2)
Gigabit Ethernet Controller Quad 1000TX LP
Eth Ctrl 4x1Gbit PCI-X PRO/1000PT Cu LP
Intel Pro/1000PT Quad Port Server Ad.
PCIe x4, low profile
ext: for RJ45-plug, Cat 5
max. 1x per system
S26361-F3241-E201 (Glyndon)
Gigabit Ethernet Contr. 1000TX LP
Eth Ctrl 1x1Gbit PCIe Pro/1000PT Cu LP
Intel PRO/1000 PT Server Adaptor
PCIe x1
ext: for RJ45-connector, Cat 5
max. 2x per system
G


G
Section IX System management options
S26361-F1790-E240
iRMC advanced pack
integrated remote management controller
activation key for
graphical console redirection
and remote media redirection
max. 1x per system
S26361-F1790-E221
RemoteView Software V5.0
Installation and configuration of
RemoteView Web and LAN FrontEnd
BMC-Manager, RTDS and FreeDOS
Online manuals
H

H

Section X Country specific power cords

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. 1 x

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	Option "no powercord", for Countries without specific cable orderable like e.g. China

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

Options and other peripherals
For other options, refer to SystemArchitect and Pricelist.
These options are supplied lose with the shipment.
For suitable peripherals for this product, please refer to SystemArcitect.

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 TX120

Change Report

Date	Order number	Changes
2007-09-19	S26361-F3857-E2	RDX Drive 80-160GB 25MB/s 3.5" int.- as soon as available
2007-09-19	S26361-F3462-E201	Intel Pro/1000PT Quad Port Server - now available
2007-09-19	S26361-F3857-E2	RDX drive USB 3.5" internal - now available
2007-09-12	S26361-F3264-E440	CPU Celeron 440 - now available
.2007		First release