

PRIMERGY Econel 200 S2

System configurator and order-information guide

December 2008

Contents

Instructions

Configuration diagram

Configurator

- 0 System software
- I Basic unit
- II Processor
- III Memory
- IV Graphics
- V Accessible drives
- VI SCSI Controller
- VII Disk array, Hard disk drives
- VIII Communication/Network
- IX Miscellaneous
- X Country specific power cords

Change report



PRIMERGY Server

Instructions

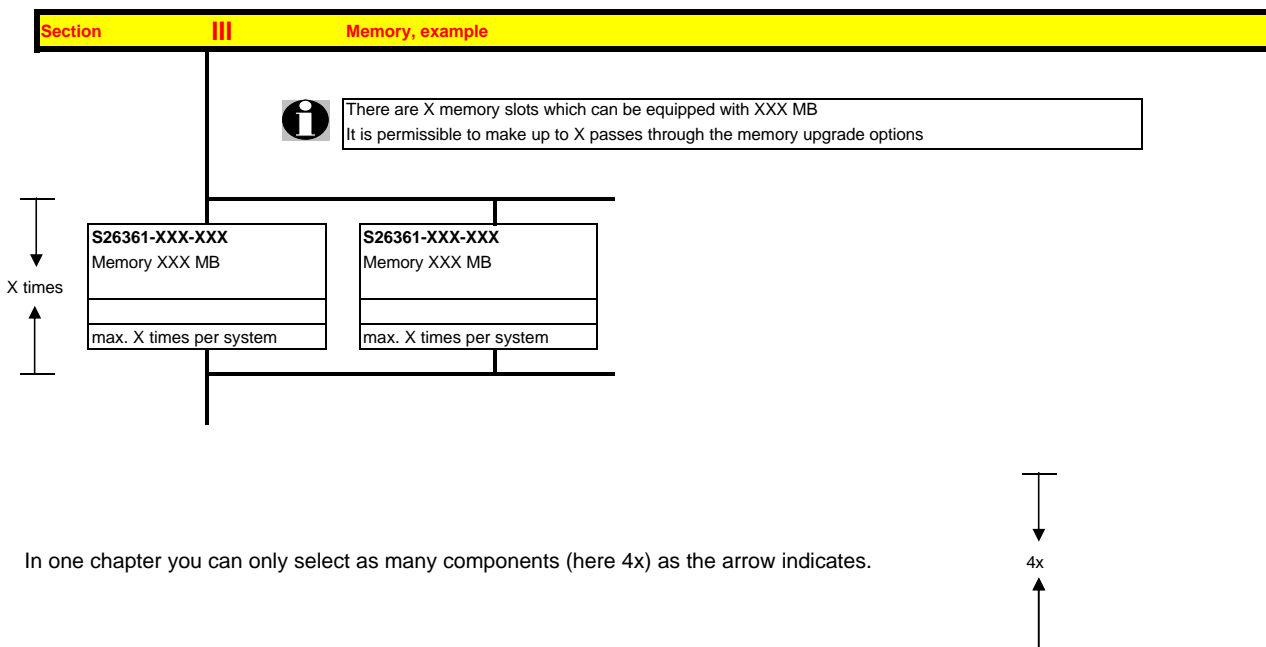
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect

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)

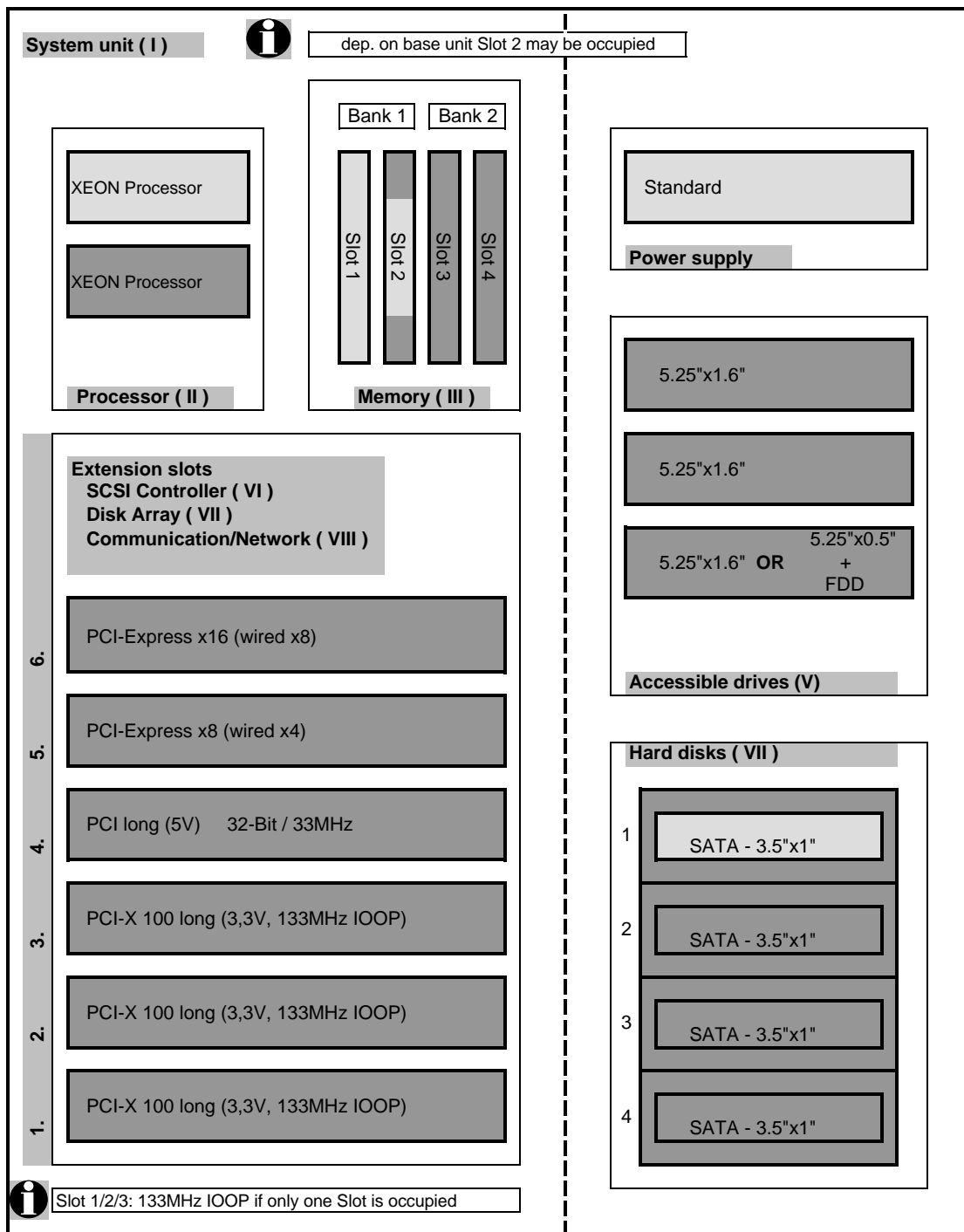
<http://extranet.fujitsu-siemens.com/primergy> (extranet)

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

Configuration diagram for PRIMERGY Econel 200 S2 System Unit

SIDE VIEW

FRONT VIEW



Key:

- Included in basic unit
- Option

Start PRIMERGY Econel 200 S2


SW Configurator

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

VMware-Software
- GSX Server and GSX Virtual Infrastructure Node

Later use of OEM operating system software is not allowed, apart from few VMware add-ons


 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 **)
 - Small Business Server 2003
 - Windows Server 2003, Web Edition (only English) Standard Edition
 Enterprise Edition
 - Additional loose Client-Access-Licenses (CALs) (not for Web Edition)


PRIMECLUSTER *)
 - Clustering
 - Load Balancing

Linux - Software: L **)
 - SuSE Linux Enterprise Server
 - SuSE Professional Linux
 - Red Hat Enterprise Linux

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 the release and ordering 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/oc/special/primergy/index_en.htm
 for partners: http://vilpart.fujitsu-siemens.de/vil/oc/special/primergy/index_en.htm

Continue with PRIMERGY HW configurator

Section | Basic unit



System unit consisting of:
 * Housing including standard power supply

Systemboard with:
 * 6 PCI slots:
 1x PCI 32Bit / 33MHz long (5V)
 1x PCI-Express x8
 1x PCI-Express x4 (mechanical x8)
 3x PCI-X 64Bit / 100MHz long (3,3V)
 (133MHz IOOP if only 1 Slot is occupied)

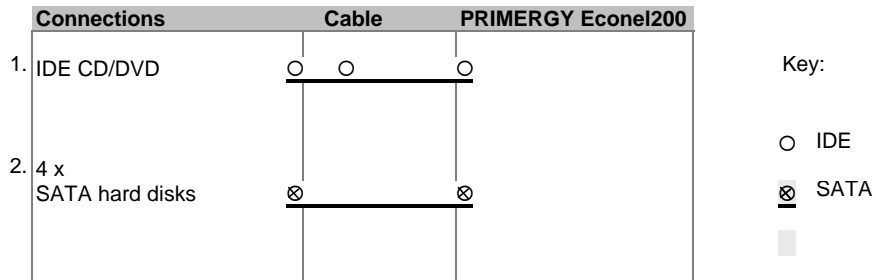
* 4 memory slots for up to 8GB PC2-4300 registered DDR2 RAM (ECC), max. 2GB modul per slot
 * 1 bay 3,5" (for floppy disk 3.5"/ 1.44MB option)
 * 3 bays 5.25" for accessible drives
 * 4 bays 3.5" (for non hot plug SATA HDD / 1" high)
 * on board SATA controller (6 port)
 * Graphics controller ATI ES1000 with 32MB RAM on-board
 * LAN 10/100/1000 Mb/s (Intel GiGal) on-board
 * 1 x Fast-IDE (ATA) Controller on-board
 * 6x USB 2.0 (UHCI) with 480MBit/s (2x external at the rear, 2x external at the frontside,
 2x released internal USB Interfaces for backup devices, no USB wakeup)

Cables:
 1. IDE cable for CD/DVD
 2. 4 x SATA cabel in basic unit

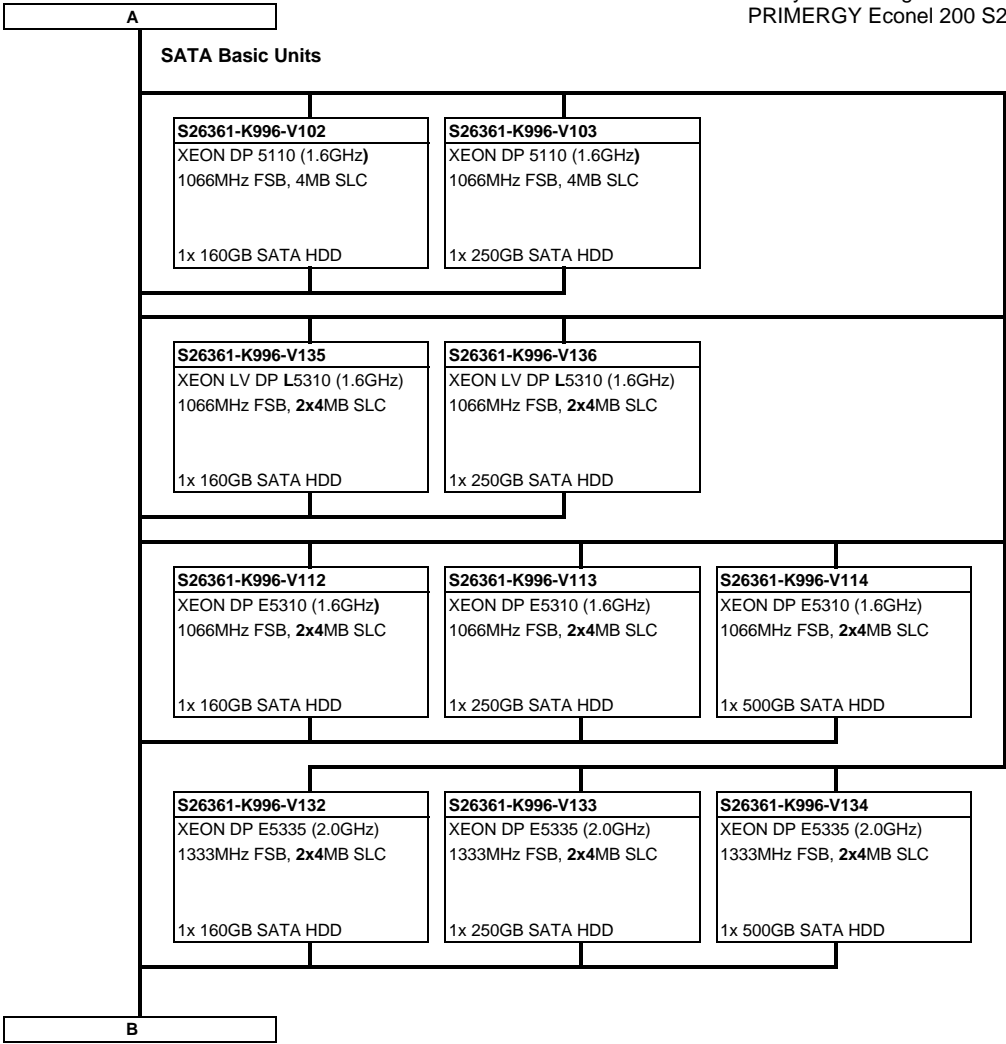
* PS/2 mouse
 * ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

External Interfaces:
 1x RS-232-C (serial, 9 pins)
 1x keyboard (PS/2)
 1x mouse (PS/2)
 1x VGA (15 pins)
 4x USB 2.0 (2x on frontside)
 1x LAN RJ45

Cables included in basic unit



A



B

Section II Processor



Later upgrading to a dual-processor system is also possible.
 For a CPU extension the second CPU must be of identical type and clock rate.

2. Processor Dual Core

S26361-F3243-E160 XEON 1.6GHz / 1066MHz FSB with 4MB SLC on Chip, (SLC=Second Level L2 Cache) heatsink and CPU Fan occupies slot for one CPU max. 1x per system	S26361-F3259-E161 XEON 1.6GHz / 1066MHz FSB with 2x4MB SLC on Chip, Low Voltage Quad Core CPU (50W) (SLC=Second Level L2 Cache) heatsink and CPU Fan occupies slot for one CPU max. 1x per system
--	--

2. Processor Quad Core

S26361-F3259-E160 XEON 1.6GHz / 1066MHz FSB with 2x4MB SLC on Chip, (SLC=Second Level L2 Cache) heatsink and CPU Fan occupies slot for one CPU max. 1x per system	S26361-F3259-E200 XEON 2.0GHz / 1333MHz FSB with 2x4MB SLC on Chip, (SLC=Second Level L2 Cache) heatsink and CPU Fan occupies slot for one CPU max. 1x per system
--	--

Section III Memory



- There are 4 memory slots for max. 8GB RAM (Fully Buffered DIMM = FBD533 / PC2-4200F)
 or (Fully Buffered DIMM = FBD667 / PC2-5300F) available
 - Each slot can optionally be equipped with 512MB, 1GB or 2GB FBDIMM modules

- each basic unit has to be equipped with memory,
 which has to be ordered with the ordercode of a "Base Memory"
 (either 1x512MB, 2x512MB = 1GB, 2x1GB = 2GB or 2x2GB = 4GB)
Note:** The price of the smallest Base Memory is already included in the basic unit,
 The price of the other Base Memories is the Delta to the smallest Base Memory
 So additional memory extensions (Upgrade Memory) can still be configured
 for the standard market price.
 Base Units with 512MB single DIMM can only be upgraded using L-Number upgrade kits.
No mix of modules within one memory bank allowed.
 ECC with memory scrubbing and Chipkill is standard for PRIMERGY Econel 200 S2

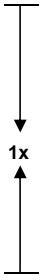
See Note** above

1x

S26361-F3230-B811 Base Memory 512MB FBD667 / PC2-5300F consisting of 1 single rank modules occupies one branch max. 1x per system	S26361-F3230-B821 Base Memory 1GB FBD667 / PC2-5300F consisting of 2 single rank modules occupies one branch max. 1x per system	S26361-F3230-B822 Base Memory 2GB FBD667 / PC2-5300F consisting of 2 dual rank modules occupies one branch max. 1x per system	S26361-F3230-B823 Base Memory 4GB FBD667 / PC2-5300F consisting of 2 dual rank modules occupies one branch max. 1x per system
--	--	--	--

C

C



S26361-F3230-E521 Upgrade memory 1GB FBD667 / PC2-5300F with SDDC=chipkill support consisting of 2 single rank modules occupies one branch max. 1x per system	S26361-F3230-E522 Upgrade memory 2GB FBD667 / PC2-5300F with SDDC=chipkill support consisting of 2 dual rank modules occupies one branch max. 1x per system	S26361-F3230-E523 Upgrade memory 4GB FBD667 / PC2-5300F with SDDC=chipkill support consisting of 2 dual rank modules occupies one branch max. 1x per system
---	---	---



Possible Memory Configuration										
Bank 1	Slot 1	512MB	512MB	512MB	512MB	512MB	1GB	1GB	2GB	2GB
	Slot 2		<i>512MB</i>	<i>512MB</i>	512MB	512MB	1GB	1GB	2GB	2GB
Bank 2	Slot 3			<i>512MB</i>		512MB		1GB		2GB
	Slot 4			<i>512MB</i>		512MB		1GB		2GB

Legend: **bolt = in base unit**
 standard = upgrade using E- or L-Number
italic = upgrade using L-Number only

Section IV Graphics




Graphic controller on mainboard (ATI ES1000, 32MB)

D

D

Section V Accessible drives

 There are 3 drive bays (3x 5,25"/1x 3,5") for accessible drives

S26361-F2826-E202
 FDD incl. mounting kit
 3,5" FDD Drive
 with mounting kit for SL DVD
 1.6 x 5.25", anthracite bezel
 max. 1x per system

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

SNP:SY-F2234E1-A
 DVD-ROM 16/48x ATAPI
 incl. description (Ger/US)
 1.6 x 5.25", anthracite bezel
 max. 1x 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-F2849-E3
 Tape drive VXA-2
 80GB, 6MB/s, U2W SCSI
 Connector: HD68
 without cable
 incl. description (Ger/US)
 data and cleaning cartridge
 1.6 * 5.25", anthracite bezel
 max. 1x per system

S26361-F3224-E3
 Tape drive VXA-320
 160GB, 12MB/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

S26361-F3460-E3
 Tape drive Entry LTO Ultrium
 100GB, 16MB/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


S26361-F2848-E3
 Tape drive DDS Gen5
S26361-F2848-E31 (only for OBDR)
 DDS-G5 for One button dis. recov.
 36GB, 3MB/s, U2W SCSI
 Connector: HD68
 without cable
 incl. description (Ger/US)
 data and cleaning cartridge
 1.6 * 5.25", anthracite bezel
 max. 1x per system


S26361-F3225-E3
 Tape drive DDS Gen6
 80GB, 6MB/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

 SCSI Backup Drives
 require a SCSI Controller
 S26361-F2399-E2 or
 S26361-F2644-E3

S26361-F3324-E3
 Tape drive DDS Gen5 USB 5.25"
 36GB, 3MB/s, USB 2.0
 Connector: USB "B"
 with USB cable kit
 incl. description (Ger/US)
 data and cleaning cartridge
 1.6 * 5.25", anthracite bezel
 max. 1x per system

S26361-F3857-E1
 RDX drive USB 5.25" internal
 80-160GB, 25MB/s, USB 2.0
 Connector: USB "B"
 with USB cable
 incl. description (Ger/US)
 without RDX cartridges
 1.6 * 5.25", 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)

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

1x

E

E

Section VI SCSI-Controller

SCSI Controller for internal backup drives

S26361-F2644-E3
SCSI Adapter U160
LSI based (53C1000R)
1 channel LVD, for internal backup drive max. 160MB/s; with cable
PCI 64/66, min 166mm, PCI standard profile
int: HD68-pin LVD
max. 1x per system

S26361-F2399-E2
SCSI Adapter U160
Adaptec 29160
1 channel: LVD + Fast/ Ultra (decoupl.) max. 160MB/s; without cable
PCI 64/66, min 180 mm PCI standard profile
int: 50-pin or HD68-pin
ext: HD68-pin
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

F

F

Section VII Disk Array, Hard Disk Drives



SATA Base Units contain a 6-port on-board SATA controller supporting RAID Levels 0, 1 and 5 (when controller/firmware is available)

SATA software RAID for Disk Array

S26361-F3217-E100
SATA Software RAID5 LSI
LSI MegaSR
enabling key
RAID 0, 1, 10 & 5
no Cache, no BBU
SATA 3Gb/sec
internal SATA port only
uses SATA ports of Southbridge
max. 1x per system



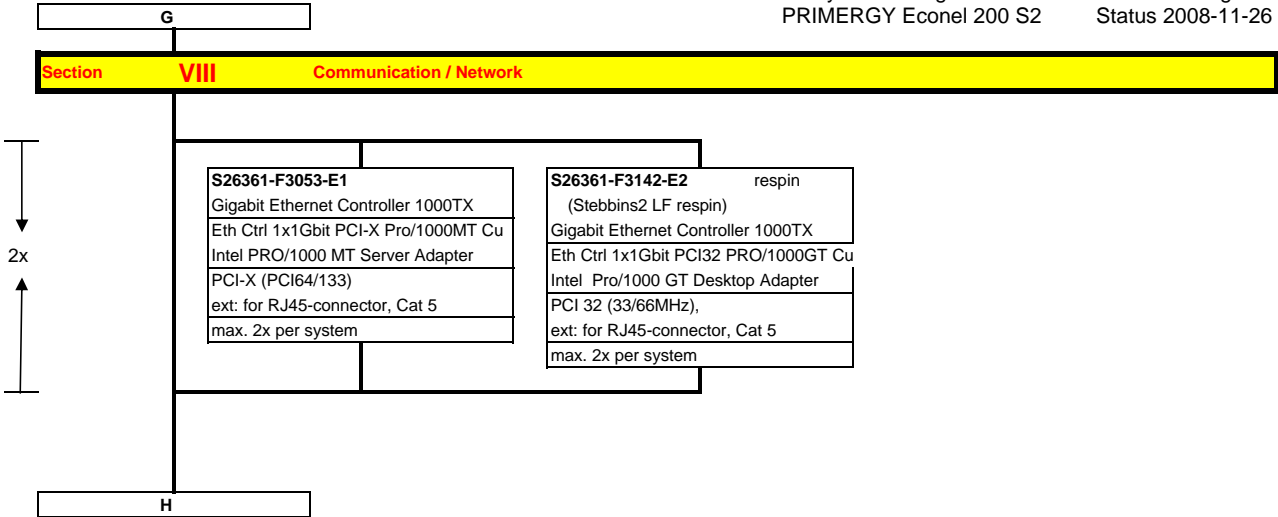
One hard disk drive is in the basic unit included

for on-board SATA RAID Controller

3x

<table border="1"> <tr> <td>S26361-F3219-E80</td> </tr> <tr> <td>HD 80GB 7.2krpm 3.5"</td> </tr> <tr> <td>7200rpm, <9.0 ms, 8MB Cache</td> </tr> <tr> <td>SATA 3Gb/s</td> </tr> <tr> <td>non hot plug</td> </tr> <tr> <td>occupies 1" bay</td> </tr> <tr> <td>max. 3x per system</td> </tr> </table>	S26361-F3219-E80	HD 80GB 7.2krpm 3.5"	7200rpm, <9.0 ms, 8MB Cache	SATA 3Gb/s	non hot plug	occupies 1" bay	max. 3x per system	<table border="1"> <tr> <td>S26361-F3219-E160</td> </tr> <tr> <td>HD 160GB 7.2krpm 3.5"</td> </tr> <tr> <td>7200rpm, <9.0 ms, 8MB Cache</td> </tr> <tr> <td>SATA 3Gb/s</td> </tr> <tr> <td>non hot plug</td> </tr> <tr> <td>occupies 1" bay</td> </tr> <tr> <td>max. 3x per system</td> </tr> </table>	S26361-F3219-E160	HD 160GB 7.2krpm 3.5"	7200rpm, <9.0 ms, 8MB Cache	SATA 3Gb/s	non hot plug	occupies 1" bay	max. 3x per system	<table border="1"> <tr> <td>S26361-F3219-E250</td> </tr> <tr> <td>HD 250GB 7.2krpm 3.5"</td> </tr> <tr> <td>7200rpm, <9.0 ms, 8MB Cache</td> </tr> <tr> <td>SATA 3Gb/s</td> </tr> <tr> <td>non hot plug</td> </tr> <tr> <td>occupies 1" bay</td> </tr> <tr> <td>max. 3x per system</td> </tr> </table>	S26361-F3219-E250	HD 250GB 7.2krpm 3.5"	7200rpm, <9.0 ms, 8MB Cache	SATA 3Gb/s	non hot plug	occupies 1" bay	max. 3x per system	<table border="1"> <tr> <td>S26361-F3219-E500</td> </tr> <tr> <td>HD 500GB 7.2krpm 3.5"</td> </tr> <tr> <td>7200rpm, <9.0 ms, 8MB Cache</td> </tr> <tr> <td>SATA 3Gb/s</td> </tr> <tr> <td>non hot plug</td> </tr> <tr> <td>occupies 1" bay</td> </tr> <tr> <td>max. 3x per system</td> </tr> </table>	S26361-F3219-E500	HD 500GB 7.2krpm 3.5"	7200rpm, <9.0 ms, 8MB Cache	SATA 3Gb/s	non hot plug	occupies 1" bay	max. 3x per system
S26361-F3219-E80																															
HD 80GB 7.2krpm 3.5"																															
7200rpm, <9.0 ms, 8MB Cache																															
SATA 3Gb/s																															
non hot plug																															
occupies 1" bay																															
max. 3x per system																															
S26361-F3219-E160																															
HD 160GB 7.2krpm 3.5"																															
7200rpm, <9.0 ms, 8MB Cache																															
SATA 3Gb/s																															
non hot plug																															
occupies 1" bay																															
max. 3x per system																															
S26361-F3219-E250																															
HD 250GB 7.2krpm 3.5"																															
7200rpm, <9.0 ms, 8MB Cache																															
SATA 3Gb/s																															
non hot plug																															
occupies 1" bay																															
max. 3x per system																															
S26361-F3219-E500																															
HD 500GB 7.2krpm 3.5"																															
7200rpm, <9.0 ms, 8MB Cache																															
SATA 3Gb/s																															
non hot plug																															
occupies 1" bay																															
max. 3x per system																															

G



H

Section IX Miscellaneous

Section X Country specific power cords

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

T26139-Y1740-E10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10	UK, IR
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y3850-E10	Option "no powercord"

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

USB Keyboard: S26381-K340-E120
 KBPC PX D, professional keyboard



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 SystemArchitect.

End PRIMERGY Econel 200 S2

