FUJITSU

PRIMERGY TX200 S6

System configurator and order-information guide

July 2013

Contents

PRIMERGY Server

Instructions

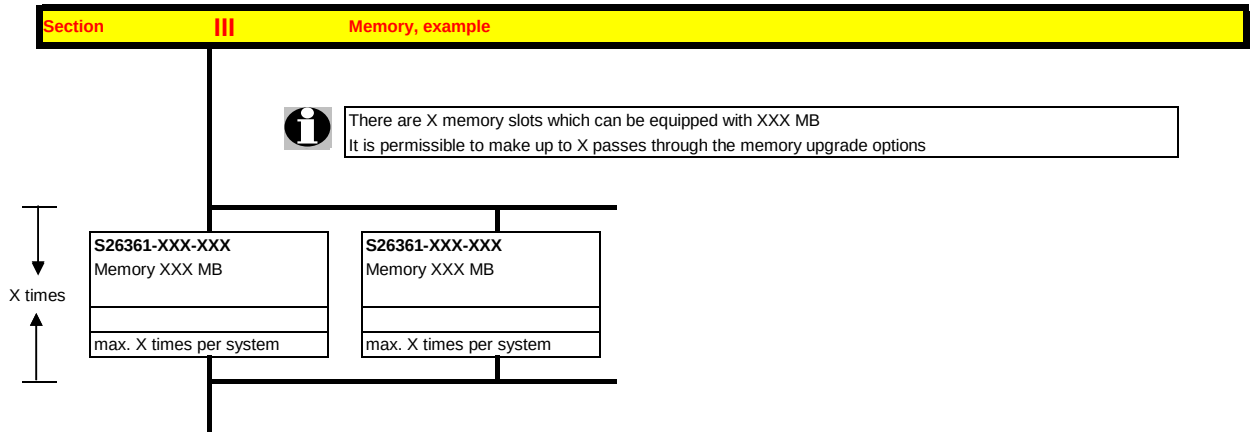
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect

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

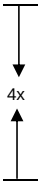
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

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://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

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

Configuration diagram PRIMERGY TX200 S6 SATA LFF (3.5") System Unit

System unit (I)

SIDE VIEW **FRONT VIEW**

red. Fan / PSU Kit

red. Sys. Fans upgrade

1. PSU

2. PSU (red. + hot plug)

or

standard Power Supply

std. PSU + std. Fans
or
red. hp PSU + red. Fans
Depending on Base Unit

System Fan 1

Processor (II)

1st XEON CPU (Dual-or Quad Core)

2nd XEON CPU (Dual-or Quad Core)

II / A | II / B | II / C | II / D | II / E | II / F

I / A | I / B | I / C | I / D | I / E | I / F

Memory (III)

each CPU offers 2 Banks (I and II) with 3 Channels each
Channels D, E, F are only available if 2nd CPU is configured

6 PCI-Busses

Extension slots

SCSI Controller (VII)
Disk Array (VIII)
Communication/Network (IX)
Miscellaneous (X)

6.) Slot 6 (3,3V): PCIe x8 (wired x4), short
LP ready

5.) Slot 5 (3,3V): PCIe x8, long

4.) Slot 4 (3,3V) PCIe x8 long, notched
LP ready, **possible to plug x16 cards**

3.) Slot 3 (5V): PCI 32-Bit / 33MHz, long

2.) Slot 2 (3,3V): PCIe x8 (wired x4), long
LP ready

1.) Slot 1 (3,3V): PCIe x8 (wired x4), short

3 x HH 5.25" free or
2 x HH 5,25" free + Option A

5.25" Slim Line
LSP/LSD Option
5.25" x 1.6"
5.25" x 1.6"

Accessible drives (V)

Mounting Kit DVD(sl) + LSP/LSD: (Option A)
- support for SL (0.5") DVD Drive + LSP /LPD
(Local Service Panel / Local Service Display)
- occupies one 5.25" bay

one DVD (slim line or standard) is mandatory

System Fan 2

Hard disk drives (VI)

4x 3.5" HDD Frame

3.5"x1" SATA
3.5"x1" SATA
3.5"x1" SATA
3.5"x1" SATA

Key:

Included in basic unit

Option

A PCIe x16 card can be plugged in the notched slot 4

A PCIe x4 card can also be plugged in a PCIe x8 slot

A PCIe x8 card can also be plugged in a PCIe x8 (wired x4) slot

PCI and PCI-X slots are mechanically not compatible to PCIe slots!

Configuration diagram PRIMERGY TX200 S6 SAS LFF (3.5") System Unit

System unit (I)

SIDE VIEW

red. Fan / PSU Kit

red. Sys. Fans upgrade

1. PSU

2. PSU
(red. + hot plug)

or

standard
Power
Supply

std. PSU + std. Fans
or
red. hp PSU + red. Fans
Depending on Base Unit

System Fan 1

Processor (II)

1st XEON CPU
(Dual-or Quad Core)

2nd XEON CPU
(Dual-or Quad Core)

II / A | II / B | II / C | II / D | II / E | II / F

I / A | I / B | I / C | I / D | I / E | I / F

Memory (III)

each CPU offers 2 Banks (I and II) with 3 Channels each
Channels D, E, F are only available if 2nd CPU is configured

6 PCI-Busses

Extension slots

SCSI Controller (VII)
Disk Array (VIII)
Communication/Network (IX)
Miscellaneous (X)

6.) Slot 6 (3,3V): PCIe x8 (wired x4), short
LP ready

5.) Slot 5 (3,3V): PCIe x8, long

4.) Slot 4 (3,3V) PCIe x8 long, notched
LP ready, **possible to plug x16 cards**

3.) Slot 3 (5V): PCI 32-Bit / 33MHz, long

2.) Slot 2 (3,3V): PCIe x8 (wired x4), long
LP ready

1.) Slot 1 (3,3V): PCIe x8 (wired x4), short

FRONT VIEW

3 x HH 5.25" free or
2 x HH 5,25" free + Option A or
1 x HH 5.25" free + Option C

5.25" Slim Line
LSP/LSD Option
5.25" x 1.6"
5.25" x 1.6"

LSP/LSD Option
5.25" Slim Line
3.5"x1" SAS/SATA
3.5"x1" SAS/SATA
5.25" x 1.6"

Accessible drives (V)

Mounting Kit DVD(sl) + LSP/LSD: (Option A)
- support for SL (0.5") DVD Drive + LSP /LPD
(Local Service Panel / Local Service Display)
- occupies one 5.25" bay

MtK DVD(sl)+LSP/LSD+SAS LFF HDD: (Option C)
- support for
+ 2x 3.5" SAS HDD hot plug
+ SL (0.5") DVD Drive
+ LSP / LSD (Local Service Panel / Local Service Display)

one DVD (slim line or standard) is mandatory

Hard disk drives (VI)

System Fan 2

4x 3.5" HDD Frame

3.5"x1" SAS/SATA
3.5"x1" SAS/SATA
3.5"x1" SAS/SATA
3.5"x1" SAS/SATA

Key:

Included in basic unit

Option

A PCIe x16 card can be plugged in the notched slot 4

A PCIe x4 card can also be plugged in a PCIe x8 slot

A PCIe x8 card can also be plugged in a PCIe x8 (wired x4) slot

PCI and PCI-X slots are mechanically not compatible to PCIe slots!

Configuration diagram PRIMERGY TX200 S6 SAS SFF (2.5") System Unit

System unit (I)

SIDE VIEW

red. Fan / PSU Kit

red. Sys. Fans upgrade

1. PSU

2. PSU (red. + hot plug)

or

standard Power Supply

std. PSU + std. Fans
or
red. hp PSU + red. Fans
Depending on Base Unit

System Fan 1

Processor (II)

1st XEON CPU (Dual-or Quad Core)

2nd XEON CPU (Dual-or Quad Core)

II / A | II / B | II / C | II / D | II / E | II / F

I / A | I / B | I / C | I / D | I / E | I / F

Memory (III)

each CPU offers 2 Banks (I and II) with 3 Channels each
Channels D, E, F are only available if 2nd CPU is configured

6 PCI-Busses

Extension slots

SCSI Controller (VII)
Disk Array (VIII)
Communication/Network (IX)
Miscellaneous (X)

6.) Slot 6 (3,3V): PCIe x8 (wired x4), short
LP ready

5.) Slot 5 (3,3V): PCIe x8, long

4.) Slot 4 (3,3V) PCIe x8 long, notched
LP ready, **possible to plug x16 cards**

3.) Slot 3 (5V): PCI 32-Bit / 33MHz, long

2.) Slot 2 (3,3V): PCIe x8 (wired x4), long
LP ready

1.) Slot 1 (3,3V): PCIe x8 (wired x4), short

FRONT VIEW

3 x HH 5.25" free or
2 x HH 5.25" free + Option A or
1 x HH 5.25" free + Option D or
0 x HH 5.25" free + Option A + Option D

5.25" Slim Line
LSP/LSD Option

5.25" x 1.6"

5.25" x 1.6"

5.25" x 1.6" or
5.25" Slim Line plus LSP/LSD Option

2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA | 2.5" SAS/SATA

Accessible drives (V)

Mounting Kit DVD(sl) + LSP/LSD: (Option A)
- support for SL (0.5") DVD Drive + LSP /LPD
(Local Service Panel / Local Service Display)
- occupies one 5.25" bay

optional SFF SAS HDD extension Box: (Option D)
- support for 8x 2.5" (SFF) SAS or SATA HDD hot plug
- occupies two 5.25" bays

one DVD (slim line or standard) is mandatory

Hard disk drives (VI)

System Fan 2

8x SFF HDD Frame: 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA | 2.5" (SFF) SAS/SATA

Key:

Included in basic unit

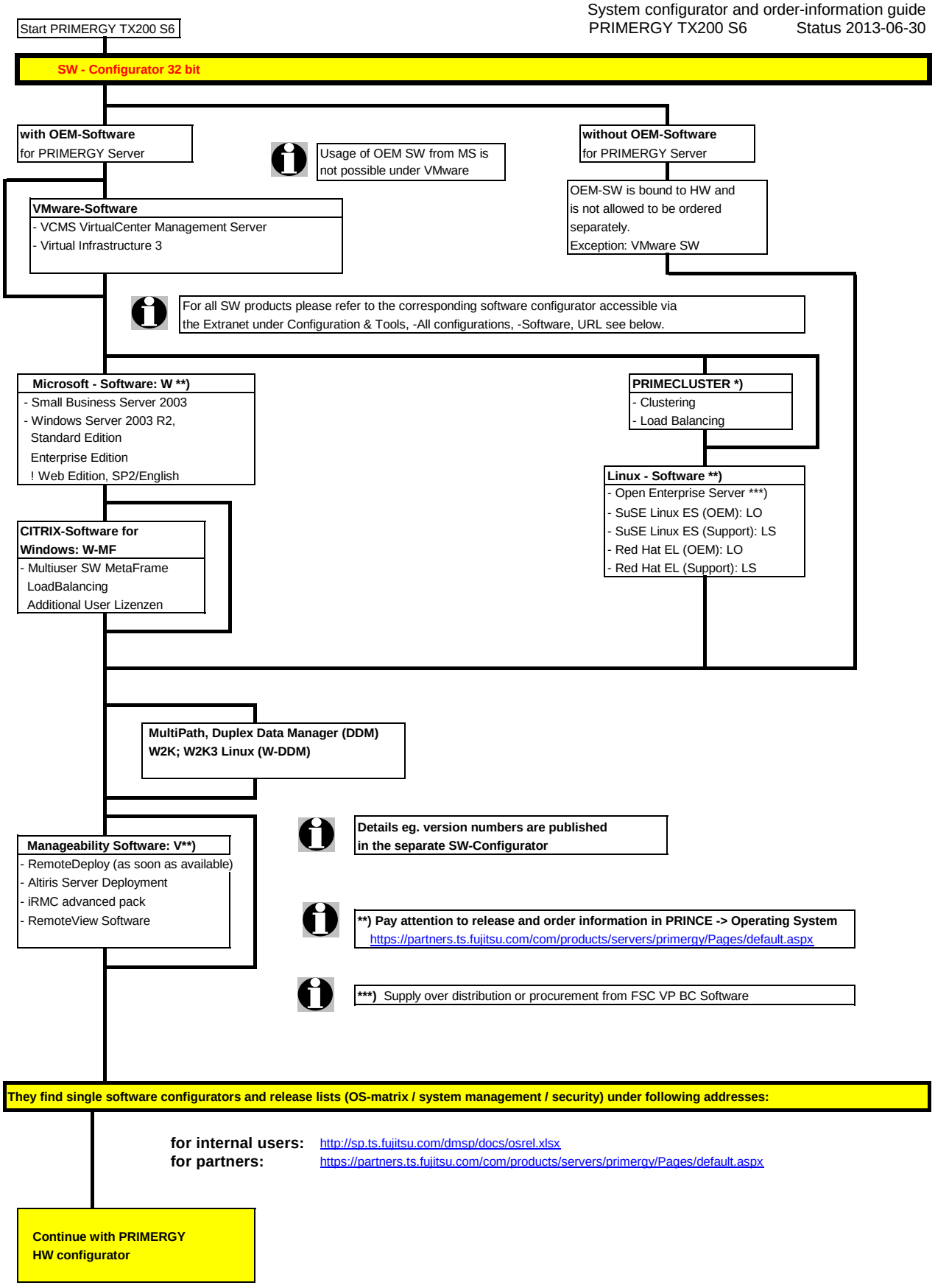
Option

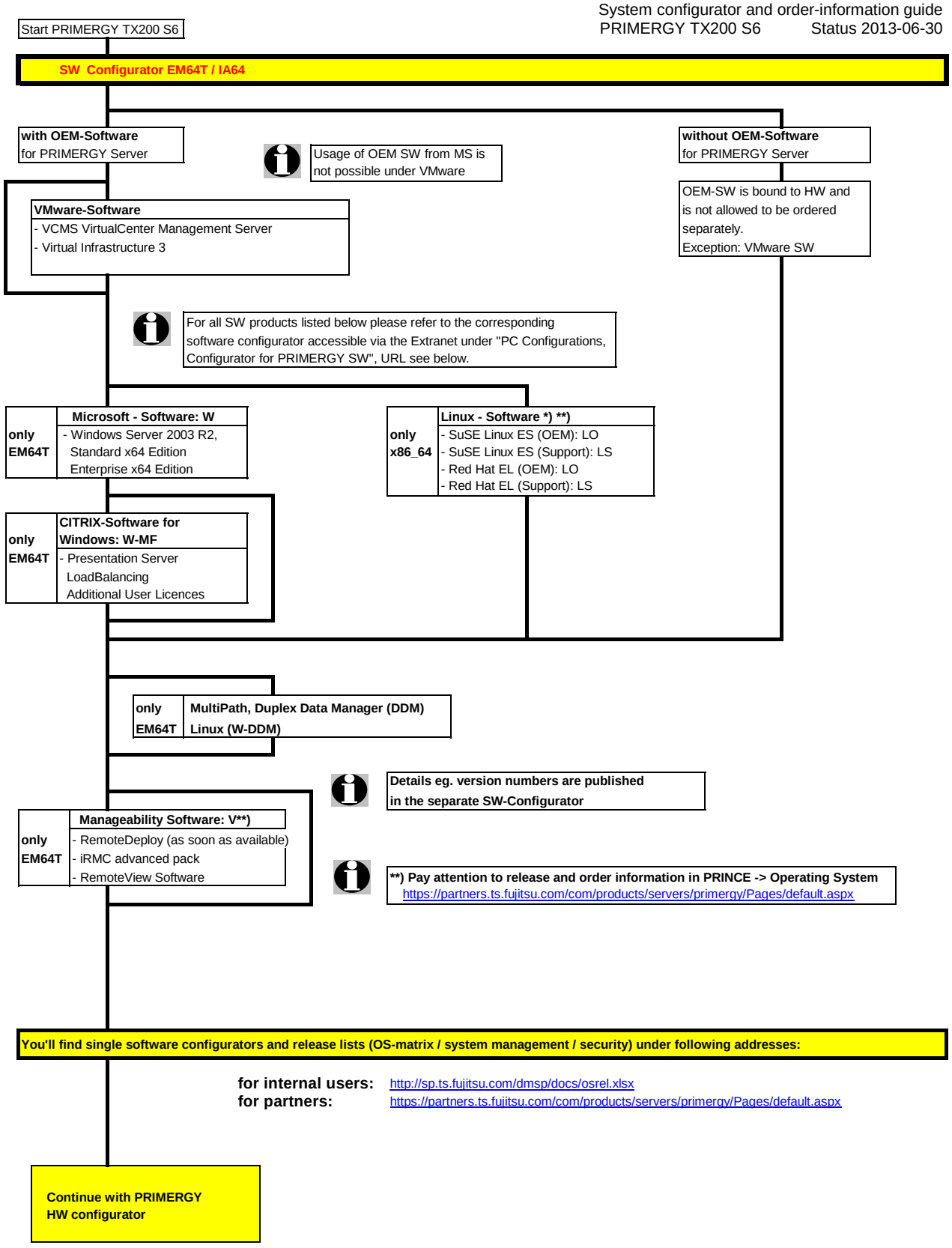
A PCIe x16 card can be plugged in the notched slot 4

A PCIe x4 card can also be plugged in a PCIe x8 slot

A PCIe x8 card can also be plugged in a PCIe x8 (wired x4) slot

PCI and PCI-X slots are mechanically not compatible to PCIe slots!


Start PRIMERGY TX200 S6
SW - Configurator 32 bit
with OEM-Software
for PRIMERGY Server
Usage of OEM SW from MS is not possible under VMware
without OEM-Software
for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately.
Exception: VMware SW
VMware-Software
- VCMS VirtualCenter Management Server
- Virtual Infrastructure 3
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 R2,
Standard Edition
Enterprise Edition
! Web Edition, SP2/English
PRIMECLUSTER *)
- Clustering
- Load Balancing
Linux - Software **)
- Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
CITRIX-Software for Windows: W-MF
- Multiuser SW MetaFrame
LoadBalancing
Additional User Lizenzen
MultiPath, Duplex Data Manager (DDM)
W2K; W2K3 Linux (W-DDM)
Manageability Software: V**)
- RemoteDeploy (as soon as available)
- Altiris Server Deployment
- iRMC advanced pack
- RemoteView Software
Details eg. version numbers are published in the separate SW-Configurator
**) Pay attention to release and order information in PRINCE -> Operating System
https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx
***) 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://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx
Continue with PRIMERGY HW configurator


Start PRIMERGY TX200 S6
SW Configurator EM64T / IA64
with OEM-Software
for PRIMERGY Server
Usage of OEM SW from MS is not possible under VMware
without OEM-Software
for PRIMERGY Server
OEM-SW is bound to HW and is not allowed to be ordered separately.
Exception: VMware SW
VMware-Software
- VCMS VirtualCenter Management Server
- Virtual Infrastructure 3
For all SW products listed below please refer to the corresponding software configurator accessible via the Extranet under "PC Configurations, Configurator for PRIMERGY SW", URL see below.
only EM64T
Microsoft - Software: W
- Windows Server 2003 R2, Standard x64 Edition
Enterprise x64 Edition
only x86_64
Linux - Software *) **)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS
only EM64T
CITRIX-Software for Windows: W-MF
- Presentation Server
LoadBalancing
Additional User Licences
only EM64T
MultiPath, Duplex Data Manager (DDM) Linux (W-DDM)
Details eg. version numbers are published in the separate SW-Configurator
only EM64T
Manageability Software: V**)
- RemoteDeploy (as soon as available)
- iRMC advanced pack
- RemoteView Software
**) Pay attention to release and order information in PRINCE -> Operating System
https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx
You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:
for internal users: http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx
Continue with PRIMERGY HW configurator

Start PRIMERGY TX200 S6

Section | Basic unit

System unit, Rack and Floorstand, including:

*** Two lockable front covers in floorstand version**
Door #1 for accessible drive bays
Door #2 for hot plug HDD bays
Both doors may be locked or door #1 may be left open while door #2 is still locked
*** backplane with 4 (LFF) or 8 (SFF) bays for hot-plug HD's. Type depending on base unit:**
Type 1: 4x hot plug LFF (3.5") SAS/SATA HDD (SAS/SATA LFF base units only)
Type 2: 8x (2x4) hot plug SFF (2.5") SAS HDD (SAS SFF base units only)
*** PSU and Fan Type depending on base unit:**
Type 1: standard PSU and standard Fans (2 System Fans)
(V101and V301 base units only)
Type 2: hot plug redundant PSU and redundant Fans (2 dual-fin System Fans)
(V201, V401, V601 and V801 base units only)

for Type 1 base units there is an upgrade to
hot plug redundant PSU and redundant Fans available

*** 3 bays 5.25" for accessible drives (half Hight)**
Systemboard D2799 with:
*** Up to two Xeon Dual Core, Quad-Core, Turbo Quad Core or Turbo Six Core CPU`s (LGA 1366 socket) with serial QPI links (Quick Path Interconnect) and three memory channels per CPU**
First CPU has to be selected for an orderable basic unit,
*** Chipset Intel® 5500 (codenamed Tylersburg-24D = Tylersburg-EN)**
*** 6 PCI slots: 3x PCIe x8 (wired x4), 1x long**
2x PCIe x8, 2x long, 1x notched, possible to plug a x16 card
1x 32Bit / PCI 33MHz, long (5V)
*** 6 memory slots for max. 32GB with 4 x 8GB registered DDR3 RAM for Lynnfield CPU only or max. 12GB with 2GB unbuffered DDR3 RAM for Lynnfield and Havendale CPU available**
- Memory is divided into 6 DIMMs(3 channels with 2 slots per channel)
- Max. two registered modules or two unbuffered modules are possible per channel
- No mix of registered and unbuffered modules is allowed
- First Memory (one module) has to be selected for an orderable basic unit per CPU
- Memory upgrade is possible module wise for the Independent Channel Mode or for the Performance Mode,
- Memory mirrroring is supported with 2 identical modules in channel A+B CPU 1 or D+E CPU 2
- Hot Spare Memory is supported with 3 identical modules in channel A+B+C CPU 1 or D+E+F CPU 2
- SDDC (Chipkill) is supported only for registered memory modules,
*** 6-port SATA controller on-board included in Intel Southbridge ICH10R for SATA Raid0/1, Max. 4 SATA HD`s are supported**
Max. 2 SATA accessible drives are supported (DVD, Backup)
*** 1 Gbit Ethernet LAN on board (Intel Hartwell) with ToE;**
iSCSI boot integrated in System BIOS as selectable option (as soon as available)
*** iRMC S2 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller (max. Resolution: 1600 x 1200 at 16 bpp)**
The Service LAN-port can be switched alternatively on standard Gbit LAN port
Interfaces:
* 1x RS-232-C (serial, 9pin) (usable for BMC or OS or shared)
* 1x optional RS-232-C (serial, 9-pin) - occupies otherwise unused 7th PCI-slot
* 1x VGA (15 pin)
* 10x USB **2.0** (UHCI) with **480MBit/s** (4x external at the rear, 3x external at the frontside, 2x released internal USB Interfaces for backup devices, 1x internal for Memorystick or Dongle, no USB wakeup)
* 1x LAN RJ45, 1x Service-LAN RJ45
***internal Cables:**
1. SATA cable for CD/DVD.
2. Cable for HDD Backplane
3. USB cable (if USB Backup is used)
*** ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates**
*** Documentation engl. (multilingual on CD)**

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Floorstand-version
Basic unit without CPU and Memory
- Minimum one CPU / Memory module has to be selected via CPU / Memory order codes
SAS/SATA LFF (3.5") Floorstand-version with: - 4-port SAS backplane for 4 hot plug LFF (3.5") SAS/SATA HDDs incl. cables for connection to the onboard SATA or plug in SAS controller **SAS SFF (2.5") Floorstand-version with:** - 2x4-port SAS backplane for 8 hot plug SFF (2.5") SAS HDDs incl. cables for connection to the plug in SAS controller
- SAS/SATA LFF (3.5") Base Unit w/ std. PSU S26361-K1346-V101
- SAS/SATA LFF (3.5") Base Unit w/ hot plug PSU and red. Fans S26361-K1346-V201 ☆
- SAS SFF (2.5") Base Unit w/ std. PSU S26361-K1346-V301
- SAS SFF (2.5") Base Unit w/ hot plug PSU and red. Fans S26361-K1346-V401

S26361-F3552-E1 ☆
TPM Module
Trusted Platform Module on Motherboard
Use according to import restrictions
max. 1x per system

B1

Rack-version
Basic unit without CPU and Memory Including 1 power cord with inlet connector for non-heating apparatus
- Minimum one CPU / Memory module has to be selected via CPU / Memory order codes
** mounting kit not included choose installation ex works (see below)
SAS/SATA LFF (3.5") Rack-version with: - 4-port SAS backplane for 4 hot plug LFF (3.5") SAS/SATA HDDs incl. cables for connection to the onboard SATA or plug in SAS controller **SAS SFF (2.5") Rack-version with:** - 2x4-port SAS backplane for 8 hot plug SFF (2.5") SAS HDDs incl. cables for connection to the plug in SAS controller
- SAS/SATA LFF (3.5") Base Unit w/ hot plug PSU and red. Fans S26361-K1346-V601 ☆
- SAS SFF (2.5") Base Unit w/ hot plug PSU and red. Fans S26361-K1346-V801

** Rack mounting kit consists of: - 1 pair of patented telescopic sliding rails (704-790mm) - 1 sliding drawer for system unit (5U) **Allows easy mounting and tool less adjustable in depth** - 1 support bracket PC-Rack - 1 cable management PC-racks
The mounting kit, orderd in addition, allows for the mounting into a PRIMERGY PRIMECENTER- and DataCenter-rack with 12, 24, 38 or 46U (height units).

The LFF Base Units offer onboard SATA functionality for up to 4 HDD. An additional SAS controller is required if you need support for SAS HDD.

S26361-F3552-E1 ☆
TPM Module
Trusted Platform Module on Motherboard
Use according to import restrictions
max. 1x per system

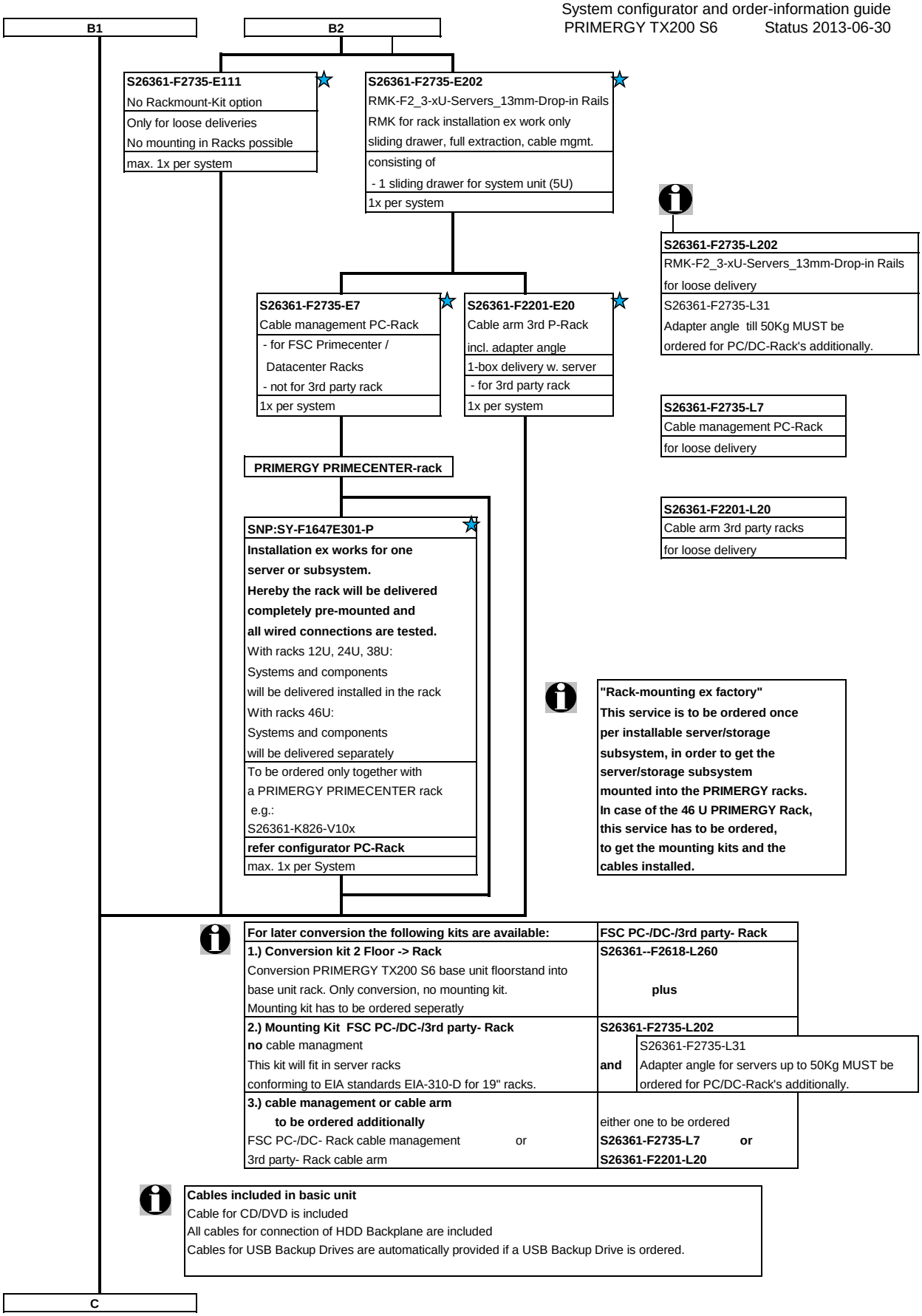
Only 1 TPM per system. Loose delivery for later integration possible. for customer

B2

S26361-F3552-L1
TPM Module add-on kit
for later integration (loose delivery)
Trusted Platform Module on Motherboard
Use according to import restrictions
max. 1x per system

The LFF Base Units offer onboard SATA functionality for up to 4 HDD.
An additional SAS controller is required if you need support for SAS HDD.

☆ shows EPA family certified components


B1
B2
S26361-F2735-E111
No Rackmount-Kit option
Only for loose deliveries
No mounting in Racks possible
max. 1x per system
S26361-F2735-E202
RMK-F2_3-xU-Servers_13mm-Drop-in Rails
RMK for rack installation ex work only
sliding drawer, full extraction, cable mgmt.
consisting of
- 1 sliding drawer for system unit (5U)
1x per system
S26361-F2735-L202
RMK-F2_3-xU-Servers_13mm-Drop-in Rails
for loose delivery
S26361-F2735-L31
Adapter angle till 50Kg MUST be
ordered for PC/DC-Rack's additionally.
S26361-F2735-E7
Cable management PC-Rack
- for FSC Primecenter /
Datacenter Racks
- not for 3rd party rack
1x per system
S26361-F2201-E20
Cable arm 3rd P-Rack
incl. adapter angle
1-box delivery w. server
- for 3rd party rack
1x per system
S26361-F2735-L7
Cable management PC-Rack
for loose delivery
S26361-F2201-L20
Cable arm 3rd party racks
for loose delivery
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.
For later conversion the following kits are available:
FSC PC-/DC-/3rd party- Rack
1.) Conversion kit 2 Floor -> Rack
Conversion PRIMERGY TX200 S6 base unit floorstand into
base unit rack. Only conversion, no mounting kit.
Mounting kit has to be ordered seperatly
S26361--F2618-L260
plus
2.) Mounting Kit FSC PC-/DC-/3rd party- Rack
no cable managment
This kit will fit in server racks
conforming to EIA standards EIA-310-D for 19" racks.
S26361-F2735-L202
and
S26361-F2735-L31
Adapter angle for servers up to 50Kg MUST be
ordered for PC/DC-Rack's additionally.
3.) cable management or cable arm
to be ordered additionally
FSC PC-/DC- Rack cable management or
3rd party- Rack cable arm
either one to be ordered
S26361-F2735-L7 or
S26361-F2201-L20
Cables included in basic unit
Cable for CD/DVD is included
All cables for connection of HDD Backplane are included
Cables for USB Backup Drives are automatically provided if a USB Backup Drive is ordered.
C

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S26113-F556-E10 ☆ 2nd power supply 800W 92% eff. (hot plug) for redundancy occupies one bay for hot plug power supply max. 1x per system	**Base Units with hot plug PSU only** (V201, V401, V601 and V801) **floorstand versions only** (V201 and V401) A second, redundant power supply requires an additional country specific power cord (section XIII)

Fan and PSU upgrade kit: Conversion from standard into hot plug PSU (incl. 1 PSU module) Upgrade of standard into redundant fans	S26113-F541-L11
1 power supply module 800W hot plug 92% eff.: Supplementary module	S26113-F556-L10

Section II Processor

There are 2 processor sockets available.
The first socket is always equipped with the **first CPU** which can be selected via configurator
It is also possible to upgrade a dual-processor system later on with a **second CPU**
Two processors with different clock frequencies are not possible
A multi-processor operating system is required for a dual-processor system.

Max. two CPU`s can be selected per basic unit		
One of following CPU´s has to be selected as first CPU for an orderable basic unit		
Optional second CPU has to be the same type like the first CPU		
Dual-Core CPU - 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5503 2C/2.00GHz/4M/4,80GT/s (80W)	**S26361-F3277-E200**	
Quad-Core CPU`s - 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5506 4C/2.13GHz/4M/4,8GT/s (80W)	**S26361-F3278-E213**	
Xeon E5507 4C/2.26GHz/4M/4,8GT/s (80W)	**S26361-F3278-E226**	
Xeon E5603 4C/1.60GHz/4M/4,80GT/s (80W)	**S26361-F3648-E160**	
Xeon E5606 4C/2.13GHz/8M/4,80GT/s (80W)	**S26361-F3648-E213**	
Xeon E5607 4C/2.26GHz/8M/4,80GT/s (80W)	**S26361-F3648-E226**	on special release
Turbo Quad-Core CPU`s - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W) ☆	**S26361-F3618-E240**	
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W) ☆	**S26361-F3618-E253**	
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W) ☆	**S26361-F3618-E266**	
Turbo Six-Core CPU`s - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5645 6C/2.40GHz/12M/5,86GT/s (80W)	**S26361-F3633-E240**	
Xeon E5649 6C/2.53GHz/12M/5,86GT/s (80W)	**S26361-F3649-E253**	
Turbo Six-Core CPU`s - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon X5650 6C/2.66GHz/12M/6,40GT/s (95W)	**S26361-F3619-E266**	
Xeon X5660 6C/2.80GHz/12M/6,40GT/s (95W)	**S26361-F3619-E280**	on special release
Xeon X5670 6C/2.93GHz/12M/6,40GT/s (95W)	**S26361-F3619-E293**	on special release
Low Voltage Quad-Core CPU with max. 800MHz DDR3 speed - 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon L5609 4C/1.86GHz/12M/4.80GT/s (40W)	**S26361-F3621-E186**	
Low Voltage Turbo Quad/Six-Core CPU`s with max. DDR3 Bus Speed 1066MHz - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon L5630 4C/2.13GHz/12M/5,86GT/s (40W)	**S26361-F3622-E213**	
Xeon L5640 6C/2.26GHz/12M/5.86GT/s (60W)	**S26361-F3622-E226**	on special release

Note: Max. DDR3 Bus Speed depends on:
- **max. DDR3 Bus Speed from the CPU and**
- **max. DDR3 Memory Speed and**
- **max. memory modules on one memory channel**

D

D

Section III Memory

- There are 6 memory slots for max. 48GB registered (reg) DDR3 RAM per CPU available with 8GB RDIMMs
or max. 12GB unbuffered (ub) DDR3 RAM per CPU available with 2GB UDIMMs
=> max. 96GB registered or 24GB unbuffered RAM for two CPU`s possible
(For explanation of following terms refer to section "Memory Configurations"
- The memory area is divided into 3 channels per CPU with 2 slots per channel
- Slot 1 of each channel belongs to memory bank 1, the slot 2 belongs to memory bank 2

Registered and unbuffered memory modules can be selected
No mix of registered and unbuffered modules allowed.
DDR3 1066 and 1333MHz modules can be mixed, but run always with the slower speed.
With two DIMMs per channel, 1.5V DIMMs operate with 1333Mhz, 1.35V with 1066MHz as max., dep. on CPU
If 1.5V DIMMs and 1.35V (Low Voltage) DIMMs are mixed, DIMMs will run at 1.5V
SDDC (Chipkill) is supported only for registered memory modules.

1.) In the "Independent Channel Mode" is following configuration possible
- Each slot can optionally be equipped either with registered x4 organized DDR3 modules:
2GB S**ingle Rank (SR)**, 4GB and 8GB D**ual Rank (DR),**
or with unbuffered x8 organized DDR3 modules: 2GB, 4GB and 8GB

2.) In the "Spare Channel Mode" is following configuration possible
- Each memory bank can optionally be equipped with 3x2GB **single rank or**
3x4GB and 3x8GB **DR** DDR3 modules.
Each slot of one bank has to be equipped with identical modules for spare channel mode
In channel A and B of CPU 1 or channel D and E of CPU 2 are always the active memory modules,
in channel C of CPU 1 and channel F of CPU 2 is always the spare module

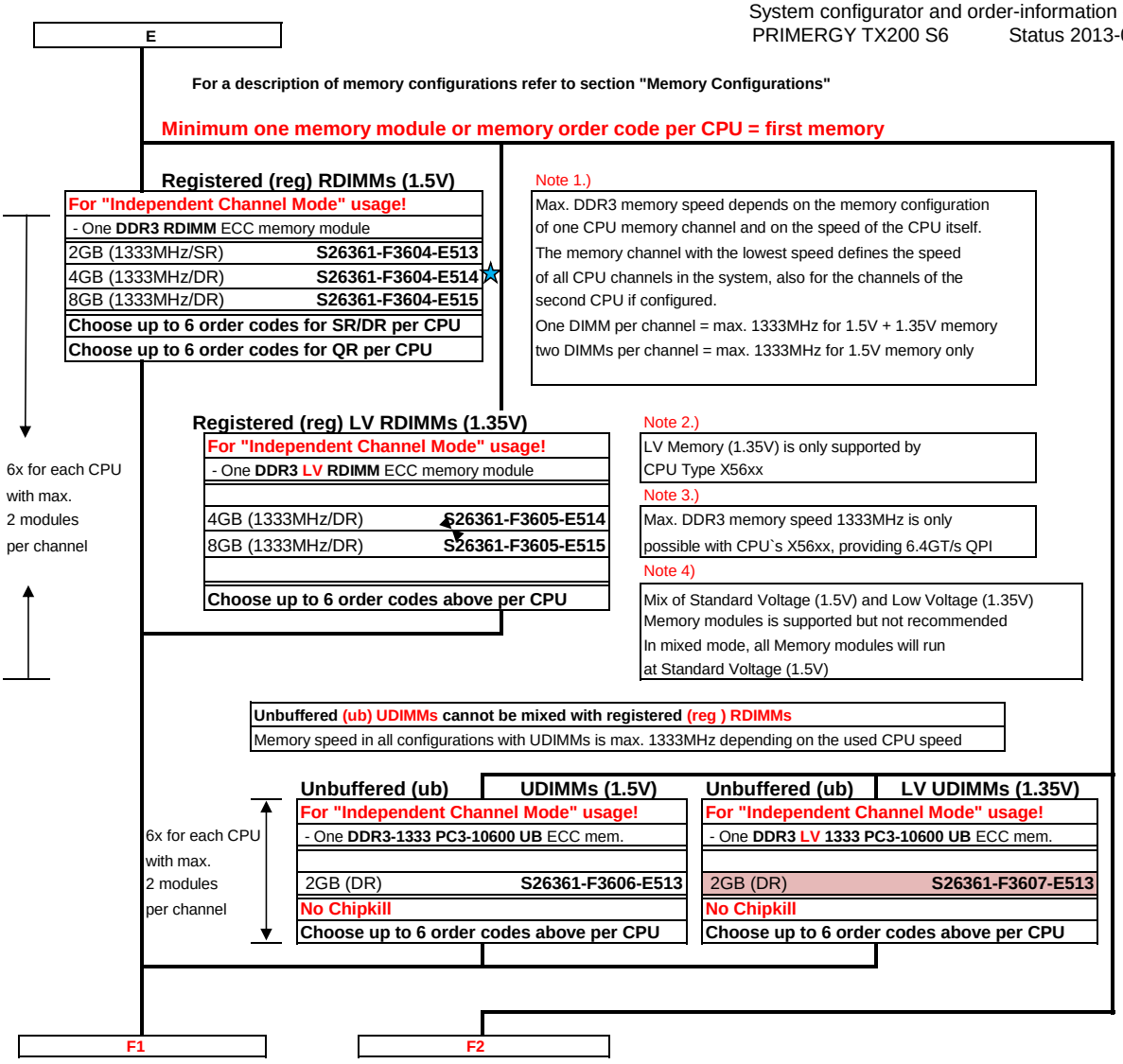
No special order codes with UDIMMs are offered for this mode

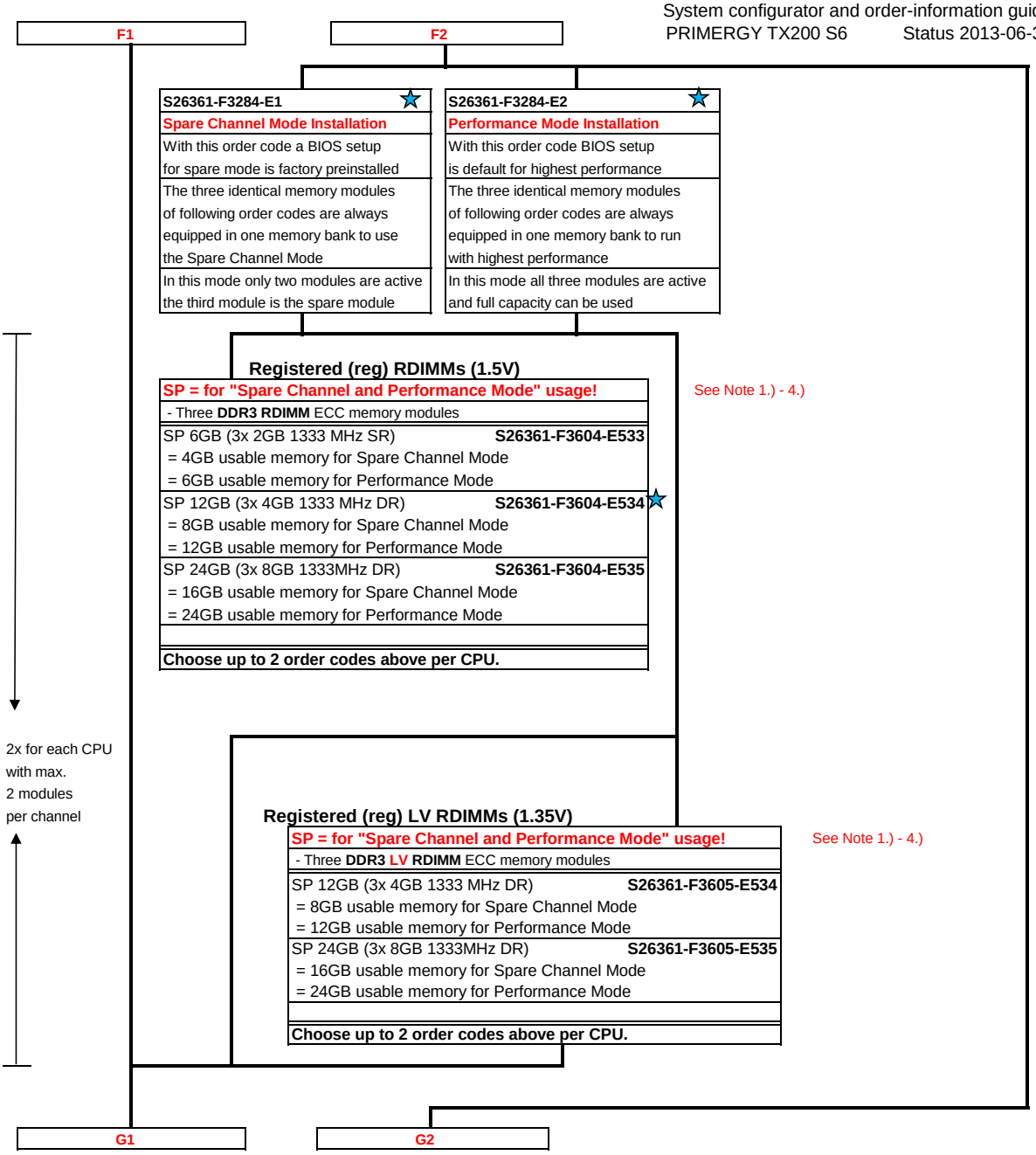
3.) In the "Mirrored Channel Mode" is following configuration possible
- Each memory bank can optionally be equipped with 2x2GB **single rank**,
2x4GB or 2x8GB DR DDR3 modules.
In each memory bank channel A and B of CPU 1 or channel D and E of CPU 2 have to be equipped with identical modules for mirrored channel mode. Channel C of CPU 1 and channel F of CPU 2 is not equipped
In channel B is always the mirrored memory of channel A of CPU 1
In channel E is always the mirrored memory of channel D of CPU 2

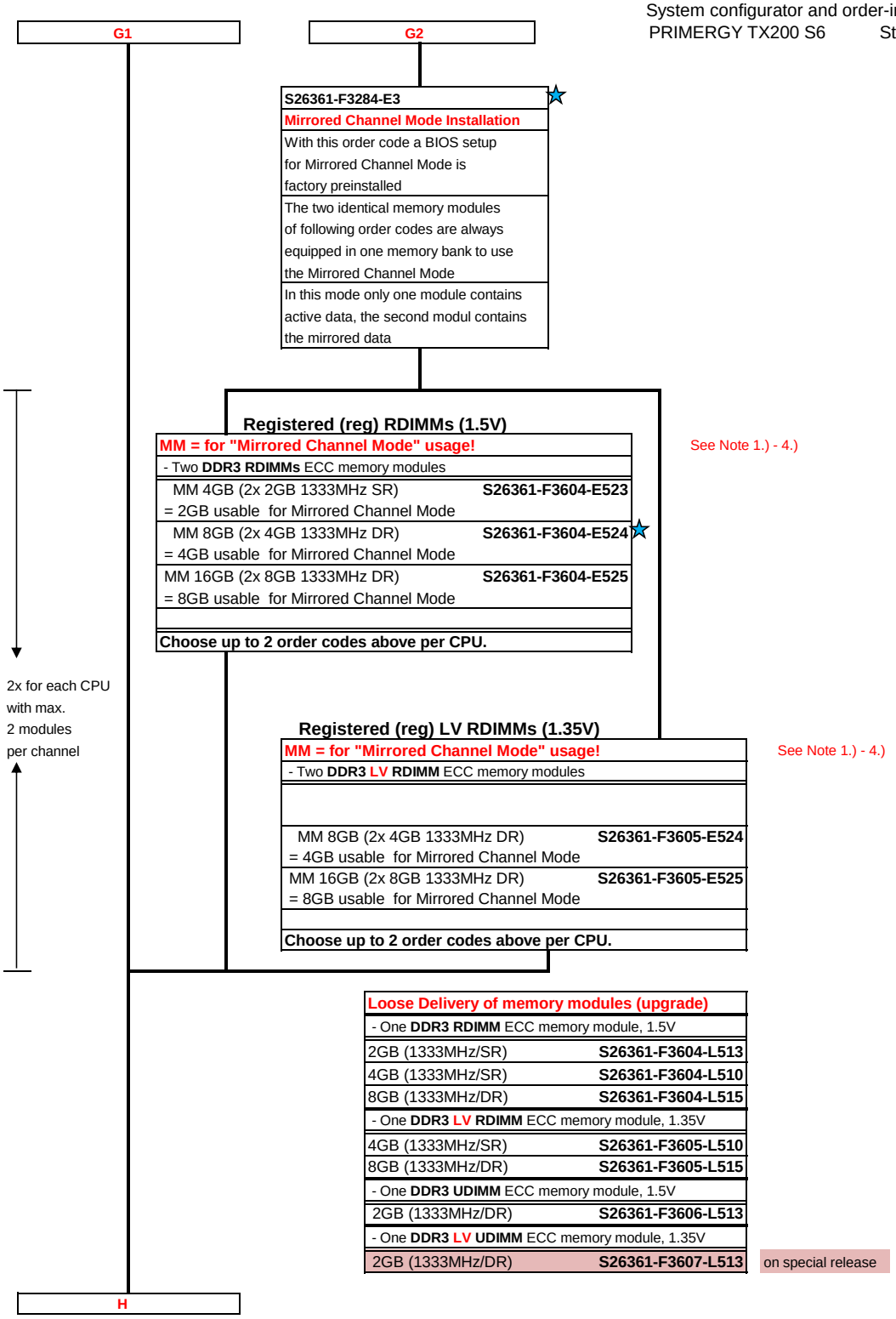
No special order codes with UDIMMs are offered for this mode

- For each CPU minimum 1 memory module has to be configured in Independent Channel Mode
(=> Additional memory extensions can still be configured up to five times per CPU) **or**
one bank has to be equipped with two modules (channel A+B for CPU 1 or D+E for CPU 2) in Mirrored Channel Mode
(=> Additional memory extensions can still be configured up to one time per CPU) **or**
one bank has to be equipped with three modules (channel A+B+C for CPU 1 or D+E+F for CPU 2) in Spare Channel Mode or Performance Mode
(=> Additional memory extensions can still be configured up to one time per CPU)

E


E
For a description of memory configurations refer to section "Memory Configurations"
Minimum one memory module or memory order code per CPU = first memory
Registered (reg) RDIMMs (1.5V)
For "Independent Channel Mode" usage!
- One DDR3 RDIMM ECC memory module
2GB (1333MHz/SR) S26361-F3604-E513
4GB (1333MHz/DR) S26361-F3604-E514
8GB (1333MHz/DR) S26361-F3604-E515
Choose up to 6 order codes for SR/DR per CPU
Choose up to 6 order codes for QR per CPU
Note 1.)
Max. DDR3 memory speed depends on the memory configuration of one CPU memory channel and on the speed of the CPU itself.
The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.
One DIMM per channel = max. 1333MHz for 1.5V + 1.35V memory
two DIMMs per channel = max. 1333MHz for 1.5V memory only
Registered (reg) LV RDIMMs (1.35V)
For "Independent Channel Mode" usage!
- One DDR3 LV RDIMM ECC memory module
4GB (1333MHz/DR) S26361-F3605-E514
8GB (1333MHz/DR) S26361-F3605-E515
Choose up to 6 order codes above per CPU
Note 2.)
LV Memory (1.35V) is only supported by CPU Type X56xx
Note 3.)
Max. DDR3 memory speed 1333MHz is only possible with CPU`s X56xx, providing 6.4GT/s QPI
Note 4)
Mix of Standard Voltage (1.5V) and Low Voltage (1.35V) Memory modules is supported but not recommended
In mixed mode, all Memory modules will run at Standard Voltage (1.5V)
6x for each CPU with max. 2 modules per channel
Unbuffered (ub) UDIMMs cannot be mixed with registered (reg) RDIMMs
Memory speed in all configurations with UDIMMs is max. 1333MHz depending on the used CPU speed
Unbuffered (ub) UDIMMs (1.5V)
For "Independent Channel Mode" usage!
- One DDR3-1333 PC3-10600 UB ECC mem.
2GB (DR) S26361-F3606-E513
No Chipkill
Choose up to 6 order codes above per CPU
Unbuffered (ub) LV UDIMMs (1.35V)
For "Independent Channel Mode" usage!
- One DDR3 LV 1333 PC3-10600 UB ECC mem.
2GB (DR) S26361-F3607-E513
No Chipkill
Choose up to 6 order codes above per CPU
6x for each CPU with max. 2 modules per channel
F1
F2


F1
F2
S26361-F3284-E1
Spare Channel Mode Installation
With this order code a BIOS setup for spare mode is factory preinstalled
The three identical memory modules of following order codes are always equipped in one memory bank to use the Spare Channel Mode
In this mode only two modules are active the third module is the spare module
S26361-F3284-E2
Performance Mode Installation
With this order code BIOS setup is default for highest performance
The three identical memory modules of following order codes are always equipped in one memory bank to run with highest performance
In this mode all three modules are active and full capacity can be used
Registered (reg) RDIMMs (1.5V)
SP = for "Spare Channel and Performance Mode" usage!
- Three DDR3 RDIMM ECC memory modules
SP 6GB (3x 2GB 1333 MHz SR) S26361-F3604-E533
= 4GB usable memory for Spare Channel Mode
= 6GB usable memory for Performance Mode
SP 12GB (3x 4GB 1333 MHz DR) S26361-F3604-E534
= 8GB usable memory for Spare Channel Mode
= 12GB usable memory for Performance Mode
SP 24GB (3x 8GB 1333MHz DR) S26361-F3604-E535
= 16GB usable memory for Spare Channel Mode
= 24GB usable memory for Performance Mode
Choose up to 2 order codes above per CPU.
See Note 1.) - 4.)
2x for each CPU with max. 2 modules per channel
Registered (reg) LV RDIMMs (1.35V)
SP = for "Spare Channel and Performance Mode" usage!
- Three DDR3 LV RDIMM ECC memory modules
SP 12GB (3x 4GB 1333 MHz DR) S26361-F3605-E534
= 8GB usable memory for Spare Channel Mode
= 12GB usable memory for Performance Mode
SP 24GB (3x 8GB 1333MHz DR) S26361-F3605-E535
= 16GB usable memory for Spare Channel Mode
= 24GB usable memory for Performance Mode
Choose up to 2 order codes above per CPU.
See Note 1.) - 4.)
G1
G2


G1
G2
S26361-F3284-E3
Mirrored Channel Mode Installation
With this order code a BIOS setup for Mirrored Channel Mode is factory preinstalled
The two identical memory modules of following order codes are always equipped in one memory bank to use the Mirrored Channel Mode
In this mode only one module contains active data, the second modul contains the mirrored data
Registered (reg) RDIMMs (1.5V)
MM = for "Mirrored Channel Mode" usage!
- Two DDR3 RDIMMs ECC memory modules
MM 4GB (2x 2GB 1333MHz SR) S26361-F3604-E523
= 2GB usable for Mirrored Channel Mode
MM 8GB (2x 4GB 1333MHz DR) S26361-F3604-E524
= 4GB usable for Mirrored Channel Mode
MM 16GB (2x 8GB 1333MHz DR) S26361-F3604-E525
= 8GB usable for Mirrored Channel Mode
Choose up to 2 order codes above per CPU.
See Note 1.) - 4.)
2x for each CPU with max. 2 modules per channel
Registered (reg) LV RDIMMs (1.35V)
MM = for "Mirrored Channel Mode" usage!
- Two DDR3 LV RDIMM ECC memory modules
MM 8GB (2x 4GB 1333MHz DR) S26361-F3605-E524
= 4GB usable for Mirrored Channel Mode
MM 16GB (2x 8GB 1333MHz DR) S26361-F3605-E525
= 8GB usable for Mirrored Channel Mode
Choose up to 2 order codes above per CPU.
See Note 1.) - 4.)
Loose Delivery of memory modules (upgrade)
- One DDR3 RDIMM ECC memory module, 1.5V
2GB (1333MHz/SR) S26361-F3604-L513
4GB (1333MHz/SR) S26361-F3604-L510
8GB (1333MHz/DR) S26361-F3604-L515
- One DDR3 LV RDIMM ECC memory module, 1.35V
4GB (1333MHz/SR) S26361-F3605-L510
8GB (1333MHz/DR) S26361-F3605-L515
- One DDR3 UDIMM ECC memory module, 1.5V
2GB (1333MHz/DR) S26361-F3606-L513
- One DDR3 LV UDIMM ECC memory module, 1.35V
2GB (1333MHz/DR) S26361-F3607-L513
on special release
H

Memory Configuration PRIMERGY TX200 S6

Each CPU offers 6 Slots for DDR3 Memory Modules organised in **2 Banks and 3 Channels.**
If you need more than 6 Slots you have to configure the 2nd CPU.
Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 4 different kinds of DDR3 Memory Modules available: UDIMM / UDIMM LV and RDIMM / RDIMM LV
UDIMM and RDIMM offer different functionality. Mix of UDIMM + RDIMM is not alloved.
Mixing of Standard + Low Voltage DIMM´s of the same type is allowed, but not recommendet (therefore not configurable ex works)
If 1.5V and 1.35V DIMMs are mixed, the DIMMs will run at 1.5V

Mode	Configuration	UDIMM	RDIMM	Application
chip kill support	any	n.a.	yes	detect multi-bit errors
Independant Channel Mode	1, 2 or 3 Modules per Bank	x	x	offers max. flexibility, upgradeability, capacity use UDIMM modules for lowest cost
Mirrored Channel Mode	2 identical Modules / Bank	**)	x	offers maximum security
Performance Mode *)	3 identical Modules / Bank	**)	x	offers maximum performance and capacity
Spare Channel Mode *)	3 identical Modules / Bank	**)	x	balances security and capacity

*) = Performance Mode and Spare Channel Mode use different BIOS settings.
**) = technically possible but no Order Numbers available, use at your own risk
x = order codes available

Capacity	Configuration	UDIMM	RDIMM	RDIMM LV	Notes
Min. Memory per CPU	1 Module / CPU	1x2GB	1x2GB	1x 2GB	with one CPU
Max. Memory per CPU	6 Modules / CPU	6x2GB	6x8GB	6x 8GB	with one CPU
Max. Memory per System	12 Modules / System	24GB	96GB	96GB	if second CPU is configured

Memory-Speed:

Max. DDR3 memory speed depends on the memory configuration on one memory channel and the speed of the CPU
One DIMM per channel = max. 1333MHz, two DIMMs per channel = max. 1333MHz for 1.5V / max. 1066 for 1.35V memory, three DIMMs per channel = max. 800MHz. The memory channel with the lowest speed defines the speed of all CPU channels in the system

DIMM Type	DIMM Slots per Channel	DIMMs populated per Channel	Memory Speed max (CPU dependent)	Ranks per DIMM
RDIMM 1.5V 1333Mhz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	1	800, 1066	QR
	2 / 3	2	800, 1066, 1333	Mix of SR + DR
	2 / 3	2	800	Mix of QR + SR / DR
	3	3	800	Mix of SR + DR
RDIMM LV / 1.35V 1333Mhz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	1	800, 1066	QR
	2 / 3	2	800, 1066, 1333	Mix of SR + DR
	2 / 3	2	800	Mix of QR + SR / DR
UDIMM 1.5V 1333Mhz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	2	800, 1066, 1333	Mix of SR + DR
UDIMM LV / 1.35V 1333Mhz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	2	800, 1066	Mix of SR + DR

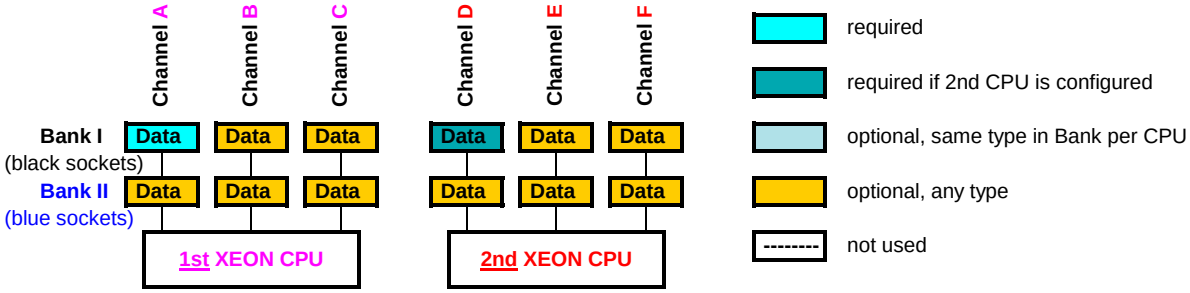
Configuration hints:

- The memory sockets on the systemboard offer a color coding:
  Bank I black sockets
  Bank II blue sockets (**or white latch**)

- A so called Bank consits of 1 memory module on every Channel available on one CPU (examples see below)
  Bank I on CPU 1 up to 3 memory modules connected to Channel A, B and C on the first CPU
  Bank II on CPU 1 up to 3 memory modules connected to Channel A, B and C on the first CPU
  Bank I on CPU 2 up to 3 memory modules connected to Channel D, E and F on the second CPU
  Bank II on CPU 2 up to 3 memory modules connected to Channel D, E and F on the second CPU

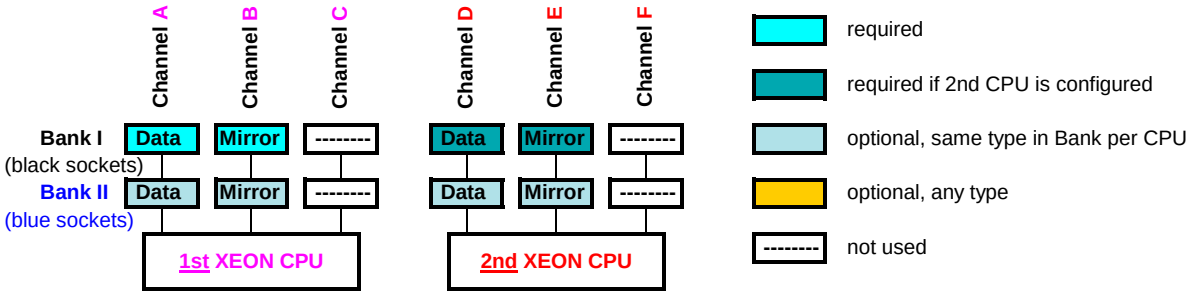
- See below (next page) for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



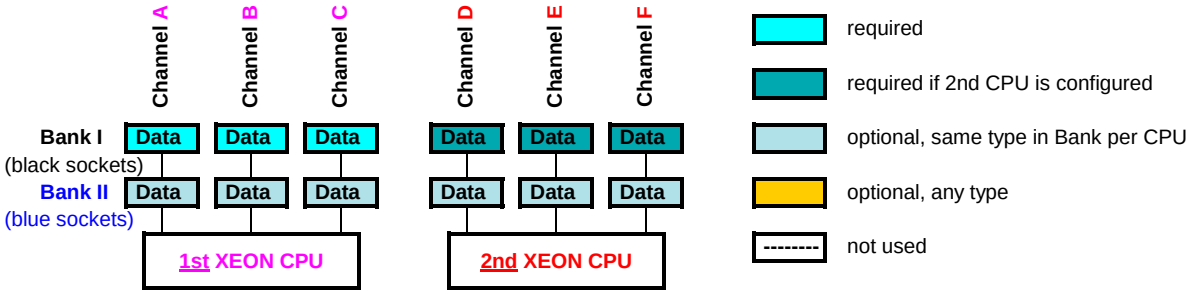
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system
Independent Channel Mode is supported using UDIMM or RDIMM memory modules

2. Mirrored Channel Mode



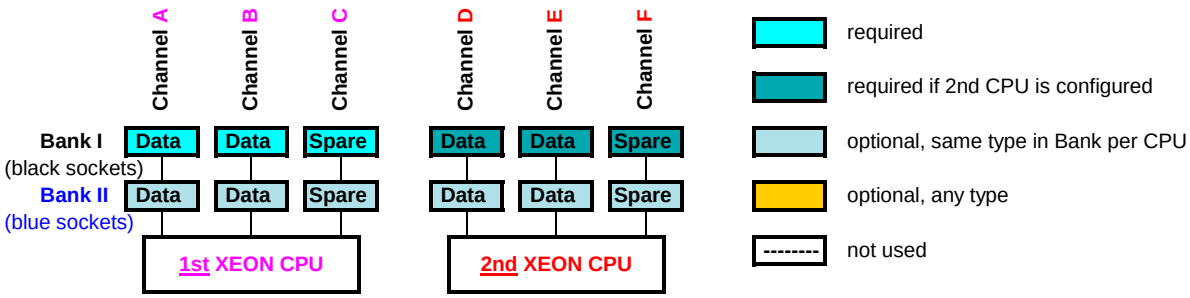
Mirrored Channel Mode requires identical modules on channel A and B (1st CPU) or channel D and E (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
channel C (1st CPU) or channel F (2nd CPU) are not usable in Mirrored Channel Mode
Mirrored Channel Mode is supported using RDIMM memory modules

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU
Performance Channel Mode is supported using RDIMM memory modules

4. Spare Channel Mode (As soon as released)



Spare Channel Mode requires identical modules on all channels of each Bank per CPU
one third of the capacity is used for the spare => the available memory for applications is two thirds of the installed memory
Spare Channel Mode is supported using RDIMM memory modules

H

Section IV Grafik

Graphics controller integrated in iRMC2 (integrated Remote Management Controller)
(max. Resolution: 1600 x 1200 at 16bpp)

S26361-F2748-E537
PY VGA LP card 512MB PCI-e x1
NVIDIA NVS300
512 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
only native driver support for Linux OS
full high bracket
max. 1x per system

The hight end optional NVIDIA NVS300 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 delivery.
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.

PY VGA card must be installed in slot 6

S26361-F2748-L537
PY VGA LP card 512MB PCI-e x1
for loose delivery

Section V Accessible drives

There are 3 bays (1.6" x 5.25") for accessible drives.
An HDD extension box can be configured (cf. Conf. Diagram SAS SFF or SAS LFF)
(occupies 2x 5,25") providing 2x LFF (3.5") or 8x SFF (2.5") bays for hot plug HDDs.

S26361-F2826-E204
Mounting Kit DVD(sl) + LSP/LSD
Occupies one 5.25" x 1.6" bays
in the accessible bay area
Offers bays for:
- 1x LSP/LSD option
- 1x 0.5 * 5.25" SATA DVD
max. 1x per system

S26361-F2826-E104 ☆
Mounting Kit DVD(sl) +
LSP/LSD + SAS/SATA LFF HDD
Occ. **two 5.25" x 1.6" bays**
in the accessible bay area
Offers bays for:
- 1x **LSD/LSP** option
- 1x 0.5 * 5.25" SATA **D**VD
- 2x 1 * 3.5" **SAS/SATA HD`s**

One 0.5 * 3.5" satin black bezel
for LSD/LSP bay
One 0.5 * 5.25" satin black bezel
for 0.5 * 5.25" DVD bay
Two 1 * 3,25" satin black bezels
for SAS/SATA HDD bays
max. 1 per system

With the mounting Kit
S26361-F2826-E104
an additional SAS
controller is necessary

S26361-F2557-E202
Local Service Panel incl. ad.
Customer Self Service
LSP module incl. adapter
0.5" x 5.25"
max. 1x per System

S26361-F2557-E105
Local Service Display incl. ad.
Customer Self Service
LSD module incl. adapter
0.5" x 5.25"
max. 1x per System

see Conf. diagram
Option C

S26361-F2557-E205
Local Service Panel incl. mount. kit
Customer Self Service
LSP module incl. mounting kit
0.5" x 5.25"
max. 1x per system

S26361-F2557-E106 ☆
Local Service Display incl. mount. kit
Customer Self Service
LSD module incl. mounting kit
0.5" x 5.25"
max. 1x per system

see Conf. diagram
Option A

S26361-F3531-E2 ☆
Blu-ray Combo slim SATA
6x BD-ROM, 16x DVD, 40x CD
BD DL and all CD/DVD formats
0.5 x 5.25", black bezel
max. 1x per system

S26361-F3269-E2 ☆
DVD-RW supermulti slim SATA
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
0.5 x 5.25", black bezel
max. 1x per system

S26361-F3641-E2
Blu-ray Triple Writer slim SATA
6x BD-RW, 8x DVD, 24x CD
BD DL and all CD/DVD formats
0.5 x 5.25"
max. 1x per system

S26361-F3266-E2 ☆
DVD-ROM HH SATA
16x DVD 48x CD
1.6 x 5.25", black bezel
max. 1x per system

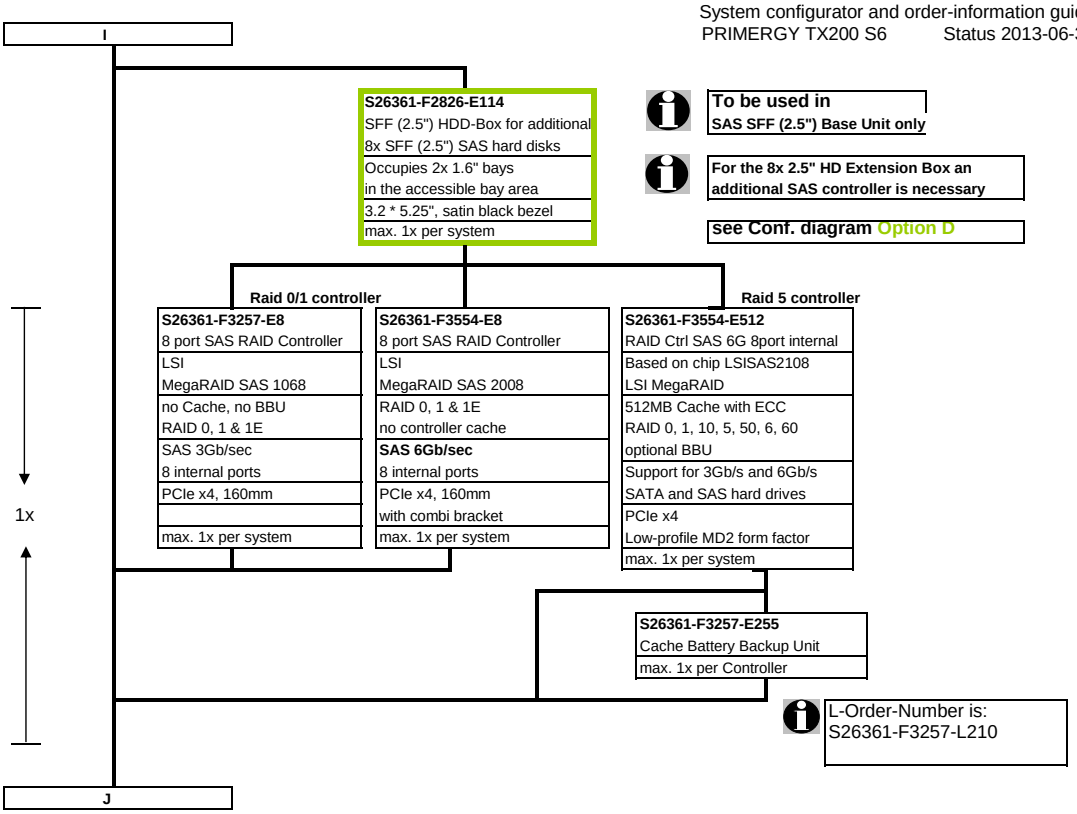
S26361-F3267-E2 ☆
DVD-RW supermulti HH SATA
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
1.6 x 5.25", black bezel
max. 1x per system

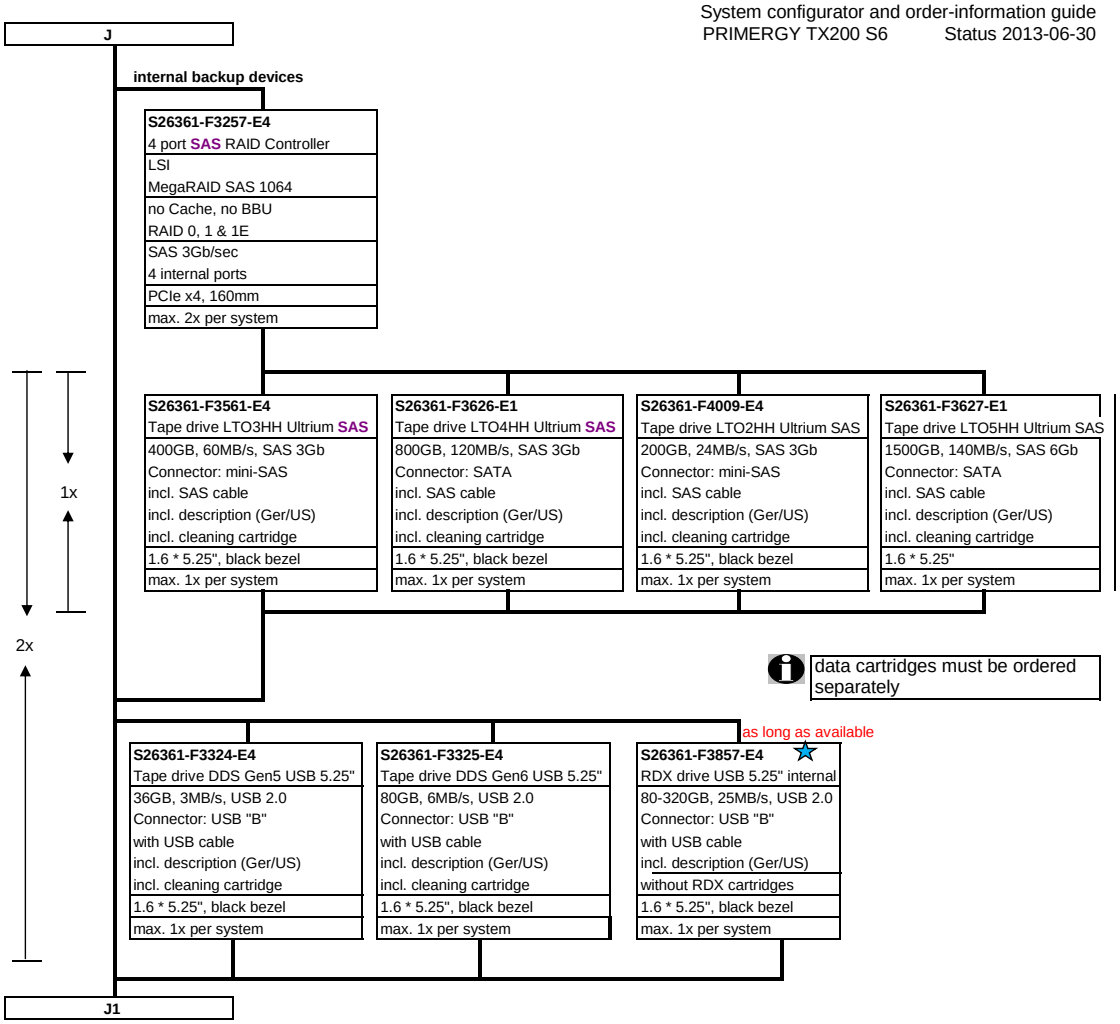
S26361-F3530-E2 ☆
Blu-ray Combo HH SATA
6x BD-ROM, 16x DVD, 40x CD
BD DL and all CD/DVD formats
1.6 x 5.25", black bezel
max. 1x per system

S26361-F3585-E2 ☆
Blu-ray Triple Writer HH SATA
4x BD-RW, 16x DVD, 40x CD
BD DL und alle CD/DVD Formate
1,6 x 5,25", Front schwarz
max. 1x pro System

Following USB Components are available
1) USB DVD SM / Blu-Ray
External SuperMulti Drive (as soon as released)
External Blu-Ray Drive (as soon as released)
2) USB Keyboard: KBPC PX D, professional keyboard S26381-K340-V120
4) USB Memorybird:
MyUSBS A910 8GB S26391-F6048-L208
MyUSBS A910 16GB S26391-F6048-L216

I


I
S26361-F2826-E114
SFF (2.5") HDD-Box for additional 8x SFF (2.5") SAS hard disks
Occupies 2x 1.6" bays in the accessible bay area
3.2 * 5.25", satin black bezel
max. 1x per system
To be used in
SAS SFF (2.5") Base Unit only
For the 8x 2.5" HD Extension Box an additional SAS controller is necessary
see Conf. diagram Option D
Raid 0/1 controller
Raid 5 controller
S26361-F3257-E8
8 port SAS RAID Controller
LSI MegaRAID SAS 1068
no Cache, no BBU
RAID 0, 1 & 1E
SAS 3Gb/sec
8 internal ports
PCIe x4, 160mm
max. 1x per system
S26361-F3554-E8
8 port SAS RAID Controller
LSI MegaRAID SAS 2008
RAID 0, 1 & 1E
no controller cache
SAS 6Gb/sec
8 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system
S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108
LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
PCIe x4
Low-profile MD2 form factor
max. 1x per system
1x
S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller
L-Order-Number is:
S26361-F3257-L210
J


J
internal backup devices
S26361-F3257-E4
4 port SAS RAID Controller
LSI
MegaRAID SAS 1064
no Cache, no BBU
RAID 0, 1 & 1E
SAS 3Gb/sec
4 internal ports
PCIe x4, 160mm
max. 2x per system
1x
2x
S26361-F3561-E4
Tape drive LTO3HH Ultrium SAS
400GB, 60MB/s, SAS 3Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3626-E1
Tape drive LTO4HH Ultrium SAS
800GB, 120MB/s, SAS 3Gb
Connector: SATA
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F4009-E4
Tape drive LTO2HH Ultrium SAS
200GB, 24MB/s, SAS 3Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3627-E1
Tape drive LTO5HH Ultrium SAS
1500GB, 140MB/s, SAS 6Gb
Connector: SATA
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25"
max. 1x per system
data cartridges must be ordered separately
as long as available
S26361-F3324-E4
Tape drive DDS Gen5 USB 5.25"
36GB, 3MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3325-E4
Tape drive DDS Gen6 USB 5.25"
80GB, 6MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3857-E4
RDX drive USB 5.25" internal
80-320GB, 25MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
without RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system
J1

J1

USB 3.0 adapter

S26361-F3749-E1
USB3.0 PCIe x1 adapter card
Sunrich U-720
PCIe x1
1 port intern, 1 port extern
USB 3.0 A jacks
max. 1x per system

The adapter is also available as optional (loose) delivery
with FH and LP bracket included
S26361-F3749-L501

S26361-F3750-E4
RDX Drive USB3.0 5.25" internal
100MB/s, USB 3.0
Connector: USB 3.0 "B"
with USB cable
without RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system

RDX cartridges must be ordered separately
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600
10x RDX320 = S26361-F3857-L329

S26361-F3750-E324
RDX 320 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B"
with USB3.0 cable
with 320GB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

additional RDX cartridges can be ordered
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600
10x RDX320 = S26361-F3857-L329

The bundle is also available as optional (loose) delivery
S26361-F3750-L324 with USB3.0 cable for adapter card.
The USB3.0 Adapter card or the USB2.0 cable set
S26361-F3750-L20 must be ordered with the drive!

S26361-F3750-E504
RDX 500 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B"
with USB3.0 cable
with 500GB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

additional RDX cartridges can be ordered
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600
10x RDX320 = S26361-F3857-L329

The bundle is also available as optional (loose) delivery
S26361-F3750-L504 with USB3.0 cable for adapter card.
The USB3.0 Adapter card or the USB2.0 cable set
S26361-F3750-L20 must be ordered with the drive!

S26361-F3750-E604
RDX 1000 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B"
with USB3.0 cable
with 1TB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

additional RDX cartridges can be ordered
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600
10x RDX320 = S26361-F3857-L329

The bundle is also available as optional (loose) delivery
S26361-F3750-L604 with USB3.0 cable for adapter card.
The USB3.0 Adapter card or the USB2.0 cable set
S26361-F3750-L20 must be ordered with the drive!

SAS RAID Controller for external backup drives

S26361-F3270-E1
SCSI U320 Controller
Ad. SCSI Card ASC-29320LPE
1 channel: LVD
LVD connect. for HD, without cable
PCIe
max. 1x per system

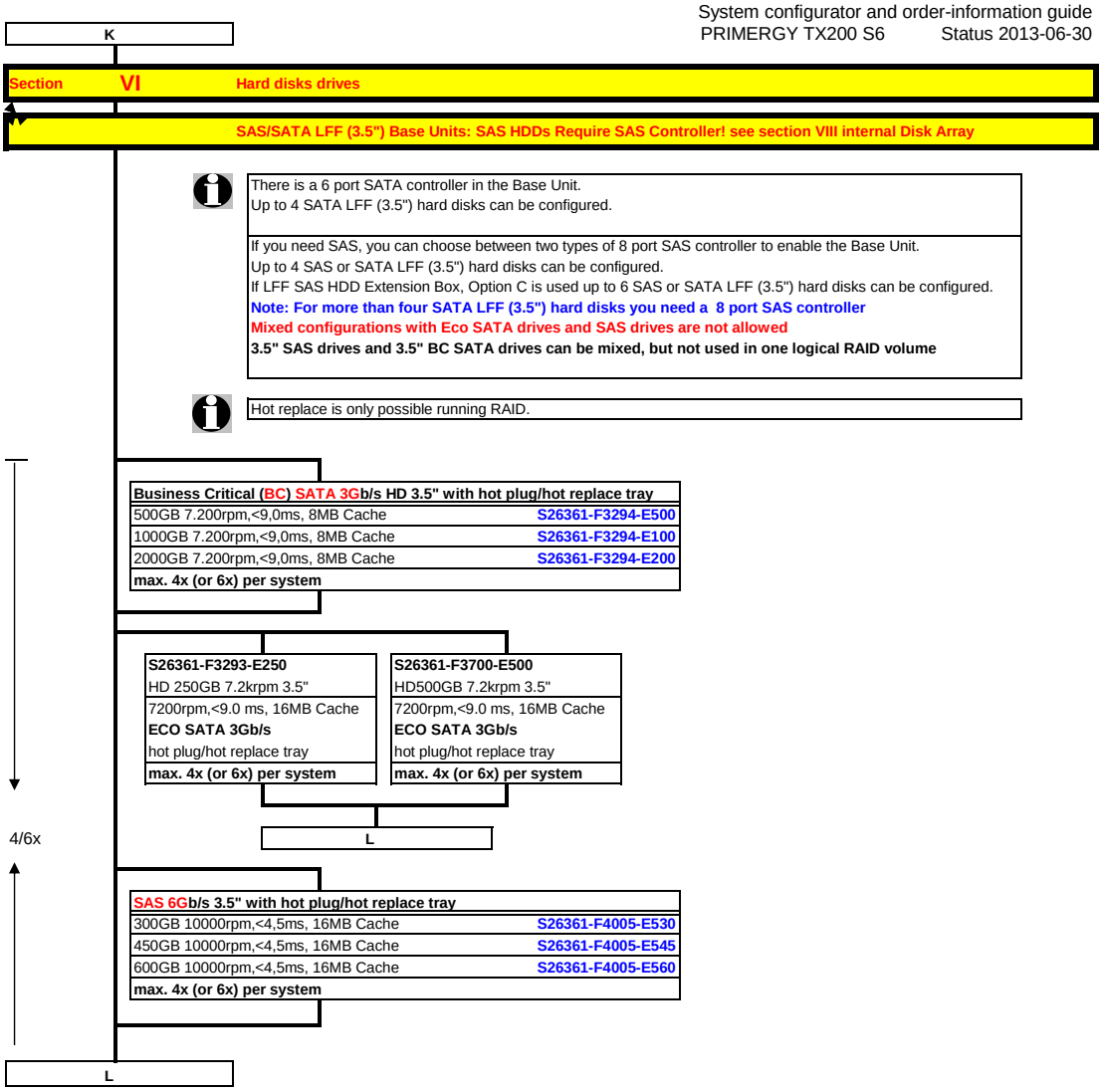
S26361-F3593-E1
8 port SAS RAID Controller
LSI
MegaRAID SAS9280-8e 6Gb/s
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6 & 60
without iBBU
SAS 3Gb/sec
8 port external
PCIe x4, 167mm
full height bracket
max. 1x per system

Controller depends on I/O-Module
IOM available: - SAS/SATA; - SCSI; - USB

S26361-F3257-E255
Cache Battery Backup Unit
with55cm cable set
max. 1x per Controller

BBU max. 2x per system possible
for loose delivery please order
S26361-F3257-L210

K


K
Section VI Hard disks drives
SAS/SATA LFF (3.5") Base Units: SAS HDDs Require SAS Controller! see section VIII internal Disk Array
There is a 6 port SATA controller in the Base Unit.
Up to 4 SATA LFF (3.5") hard disks can be configured.
If you need SAS, you can choose between two types of 8 port SAS controller to enable the Base Unit.
Up to 4 SAS or SATA LFF (3.5") hard disks can be configured.
If LFF SAS HDD Extension Box, Option C is used up to 6 SAS or SATA LFF (3.5") hard disks can be configured.
Note: For more than four SATA LFF (3.5") hard disks you need a 8 port SAS controller
Mixed configurations with Eco SATA drives and SAS drives are not allowed
3.5" SAS drives and 3.5" BC SATA drives can be mixed, but not used in one logical RAID volume
Hot replace is only possible running RAID.
Business Critical (BC) SATA 3Gb/s HD 3.5" with hot plug/hot replace tray
500GB 7.200rpm,<9,0ms, 8MB Cache S26361-F3294-E500
1000GB 7.200rpm,<9,0ms, 8MB Cache S26361-F3294-E100
2000GB 7.200rpm,<9,0ms, 8MB Cache S26361-F3294-E200
max. 4x (or 6x) per system
S26361-F3293-E250
HD 250GB 7.2krpm 3.5"
7200rpm,<9.0 ms, 16MB Cache
ECO SATA 3Gb/s
hot plug/hot replace tray
max. 4x (or 6x) per system
S26361-F3700-E500
HD500GB 7.2krpm 3.5"
7200rpm,<9.0 ms, 16MB Cache
ECO SATA 3Gb/s
hot plug/hot replace tray
max. 4x (or 6x) per system
4/6x
L
SAS 6Gb/s 3.5" with hot plug/hot replace tray
300GB 10000rpm,<4,5ms, 16MB Cache S26361-F4005-E530
450GB 10000rpm,<4,5ms, 16MB Cache S26361-F4005-E545
600GB 10000rpm,<4,5ms, 16MB Cache S26361-F4005-E560
max. 4x (or 6x) per system
L

L

SAS / SATA SFF (2.5") Base Units: SAS HDDs Require SAS Controller! see section VIII internal Disk Array

you can choose between 3 types of 8 port SAS controller for the Base Unit.
Up to 8 SAS SFF (2.5") hard disks can be configured as standard.
Using the SFF SAS HDD Extension Box, Option D up to 16 SAS SFF (2.5") hard disks can be configured.
To use SFF SAS HDD Extension Box, Option D:
- make sure to configure the same type of controller for all Backplanes
Hot replace is only possible running RAID.
Configurations with Eco SATA can only be mixed with BC-SATA HDD type
2.5" SAS drives and 2.5" BC SATA drives can be mixed, but not used in one logical RAID volume

Controller for 1 to 8 SAS SFF (2.5") HDD

2x

S26361-F3257-E8	**S26361-F3554-E8**	**S26361-F3554-E512**
8 port SAS RAID Controller	8 port SAS RAID Controller	RAID Ctrl SAS 6G 8port internal
LSI MegaRAID SAS 1068	LSI MegaRAID SAS 2008	Based on chip LSI SAS 2108
no Cache, no BBU RAID 0, 1 & 1E	RAID 0, 1 & 1E no controller cache	LSI MegaRAID 512MB Cache with ECC
SAS 3Gb/sec 8 internal ports	**SAS 6Gb/sec** 8 internal ports	RAID 0, 1, 10, 5, 50, 6, 60 optional BBU
PCIe x4, 160mm	PCIe x4, 160mm with combi bracket	Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
		PCIe x4 Low-profile MD2 form factor
max. 1x per system	max. 1x per system	max. 1x per system

The "SFF HDD extension" Box" requires a MegaRAID SAS Controller!

S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller

iBBU or BBU max 2x per system
for loose delivery please order
S26361-F3257-L210

8x / 16x

Business Critical (BC) SATA 3Gb/s HD 2.5" with hot plug/hot replace tray	
250GB 7.200rpm,<10,5ms, 8MB Cache	**S26361-F3601-E250**
500GB 7.200rpm,<10,5ms, 8MB Cache	**S26361-F3601-E500**
1000GB 7.200rpm,<10,5ms, 8MB Cache	**S26361-F3601-E100**
max. 8x (or 16x) per system	

ECO SATA 3Gb/s HD 2.5" with hot plug/hot replace tray	
160GB 5.400rpm,<10,5ms, 8MB Cache	**S26361-F3297-E160**
320GB 5.400rpm,<10,5ms, 8MB Cache	**S26361-F3297-E320**
500GB 5.400rpm,<10,5ms, 8MB Cache	**S26361-F3297-E500**
max. 8x (or 16x) per system	

Mix of ECO SATA with SAS HDDs is not possible !

M

SSD SAS 2.5"

S26361-F4541-E100	**S26361-F4541-E400**
SSD SAS 100GB, SLC	SSD SAS 400GB, SLC
Solid State Disk, SAS 6Gb/s Enterprise Perfomance High Endurance** hot plug/hot replace tray	Solid State Disk, SAS 6Gb/s Enterprise Perfomance High Endurance** hot plug/hot replace tray
max. 8x (or 16x) per system	max. 8x (or 16x) per system

**) High Endurance
100GB: max 9PB***, random write
400GB: max 35PB***, random write

SSD SAS MLC	
100GB, Enterprise Perf., Mainstream Endurance*	**S26361-F4581-E400**
200GB, Enterprise Perf., Mainstream Endurance*	**S26361-F4581-E400**
400GB, Enterprise Perf., Mainstream Endurance*	**S26361-F4581-E400**
max. 8x (or 16x) per system	

*) Mainstream Endurance
10DWPD over 5y

Managed Life Model

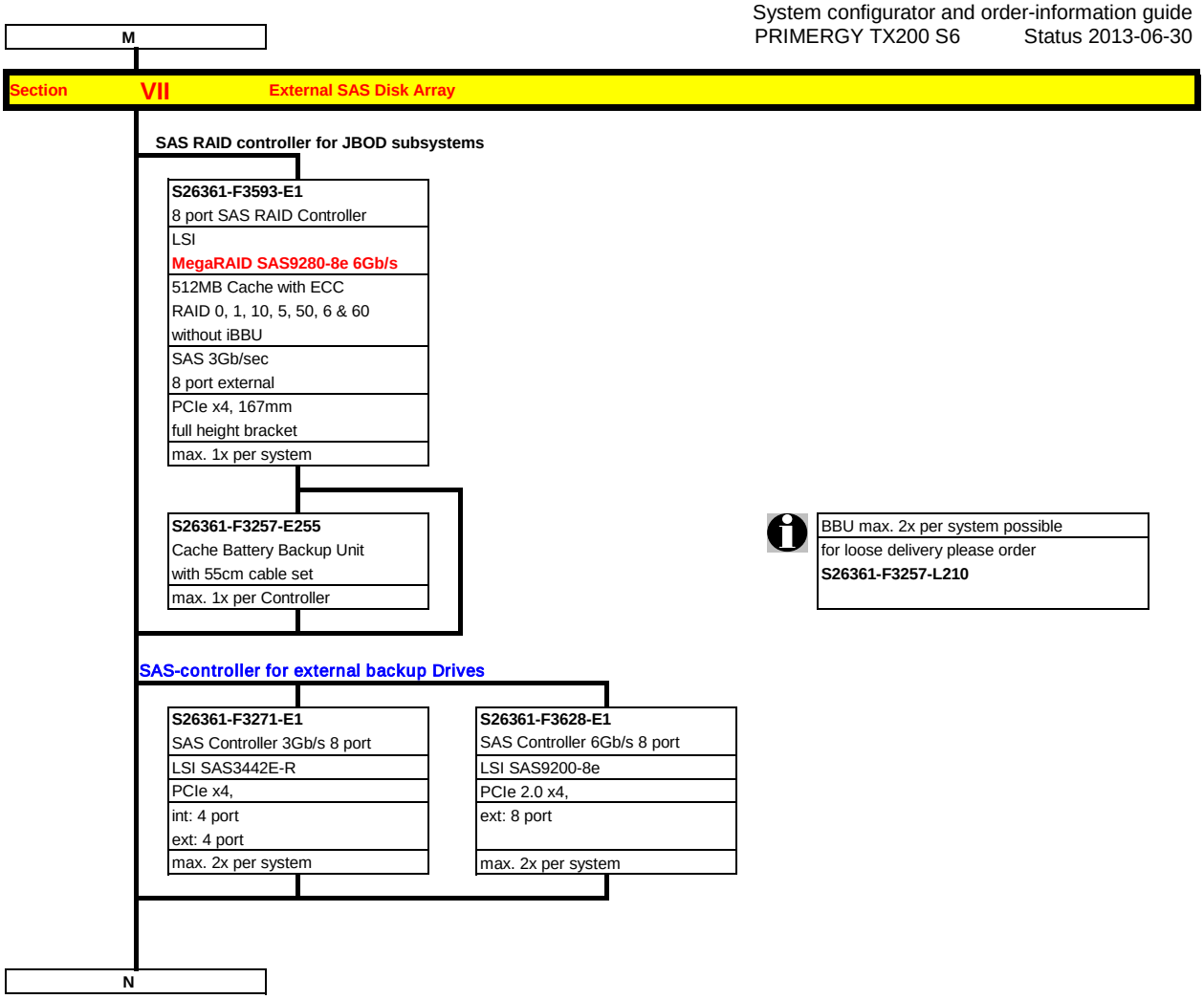
SSD SATA MLC	
200GB, Mainstream Perf., Mainstream Endurance*	**S26361-F5225-E200**
400GB, Mainstream Perf., Mainstream Endurance*	**S26361-F5225-E400**
max. 8x (or 16x) per system	

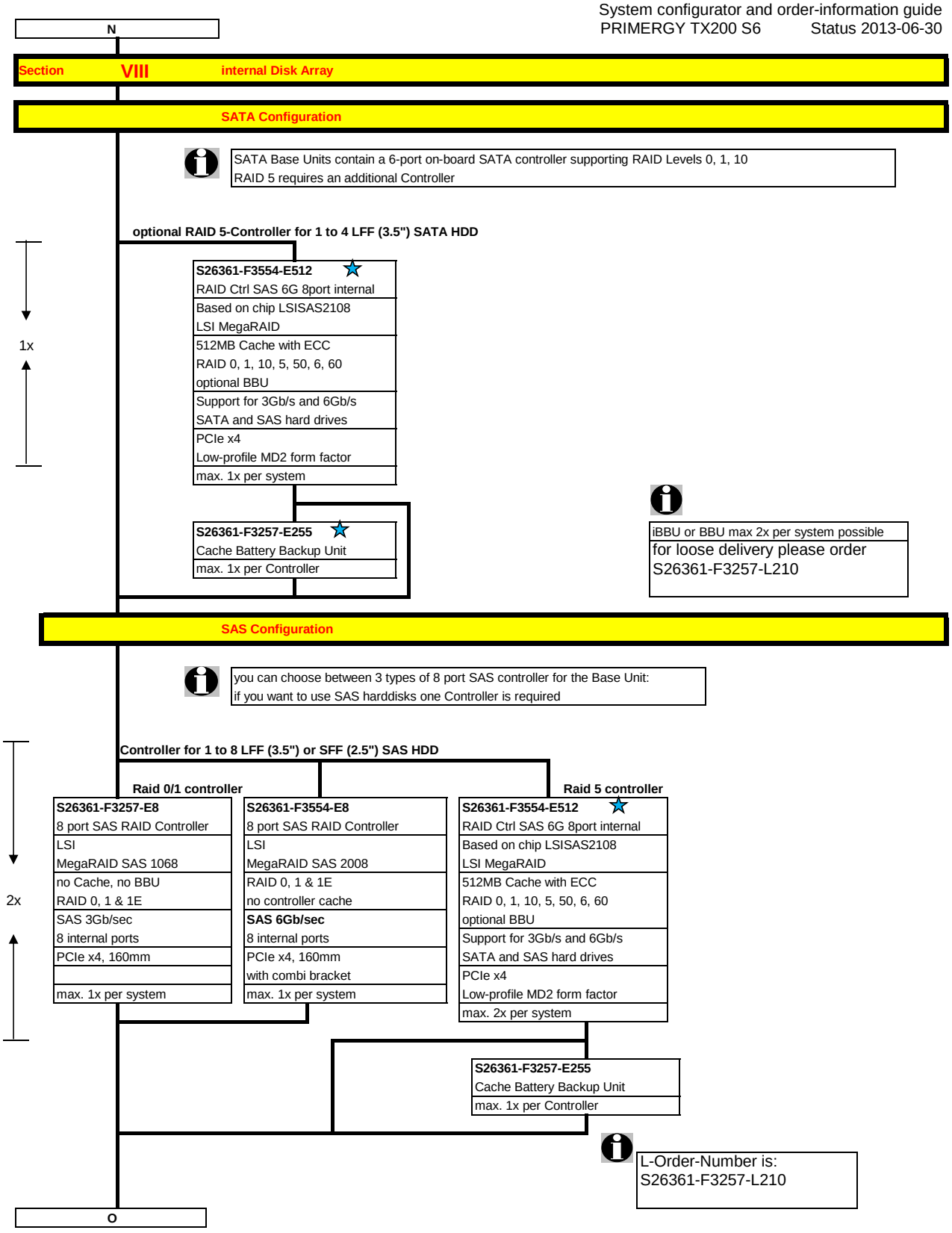
SAS 6Gb/s 2.5" with hot plug/hot replace tray	
300GB 10000rpm,<4,5ms, 16MB Cache	**S26361-F4482-E130**
450GB 10000rpm,<4,5ms, 16MB Cache	**S26361-F4482-E145**
600GB 10000rpm,<4,5ms, 16MB Cache	**S26361-F4482-E160**
900GB 10000rpm,<4,5ms, 32MB Cache	**S26361-F4482-E190**
146GB 15krpm,<4,5ms, 32MB Cache	**S26361-F4482-E514**
300GB 15krpm,<4,5ms, 32MB Cache	**S26361-F4482-E514**
max. 8x (or 16x) per system	

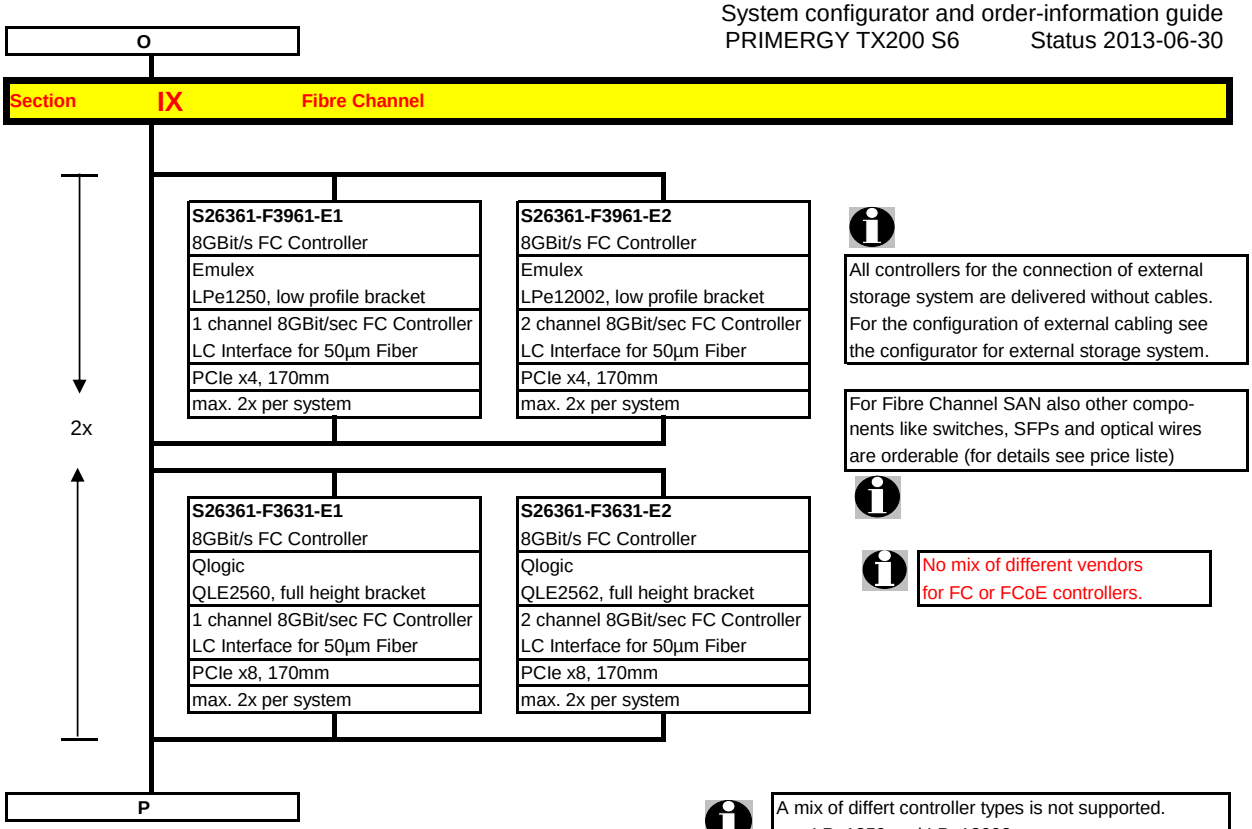
configuration of SAS-HDDs requires SAS RAID controller

***) 1GB is equal to one billion bytes when referring to SSD capacity. 1TB equals 1,000GB, and 1PB equals 1,000TB.
Accessible capacity will vary depending on the operating environment and formatting.

M


M
Section VII External SAS Disk Array
SAS RAID controller for JBOD subsystems
S26361-F3593-E1
8 port SAS RAID Controller
LSI
MegaRAID SAS9280-8e 6Gb/s
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6 & 60
without iBBU
SAS 3Gb/sec
8 port external
PCIe x4, 167mm
full height bracket
max. 1x per system
S26361-F3257-E255
Cache Battery Backup Unit
with 55cm cable set
max. 1x per Controller
BBU max. 2x per system possible
for loose delivery please order
S26361-F3257-L210
SAS-controller for external backup Drives
S26361-F3271-E1
SAS Controller 3Gb/s 8 port
LSI SAS3442E-R
PCIe x4,
int: 4 port
ext: 4 port
max. 2x per system
S26361-F3628-E1
SAS Controller 6Gb/s 8 port
LSI SAS9200-8e
PCIe 2.0 x4,
ext: 8 port
max. 2x per system
N


N
Section VIII internal Disk Array
SATA Configuration
SATA Base Units contain a 6-port on-board SATA controller supporting RAID Levels 0, 1, 10
RAID 5 requires an additional Controller
optional RAID 5-Controller for 1 to 4 LFF (3.5") SATA HDD
1x
S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108
LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x4
Low-profile MD2 form factor
max. 1x per system
S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller
iBBU or BBU max 2x per system possible
for loose delivery please order
S26361-F3257-L210
SAS Configuration
you can choose between 3 types of 8 port SAS controller for the Base Unit:
if you want to use SAS harddisks one Controller is required
Controller for 1 to 8 LFF (3.5") or SFF (2.5") SAS HDD
2x
Raid 0/1 controller
S26361-F3257-E8
8 port SAS RAID Controller
LSI
MegaRAID SAS 1068
no Cache, no BBU
RAID 0, 1 & 1E
SAS 3Gb/sec
8 internal ports
PCIe x4, 160mm
max. 1x per system
S26361-F3554-E8
8 port SAS RAID Controller
LSI
MegaRAID SAS 2008
RAID 0, 1 & 1E
no controller cache
SAS 6Gb/sec
8 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system
Raid 5 controller
S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108
LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x4
Low-profile MD2 form factor
max. 2x per system
S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller
L-Order-Number is:
S26361-F3257-L210
O



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

For Fibre Channel SAN also other components like switches, SFPs and optical wires are orderable (for details see price liste)

No mix of different vendors for FC or FCoE controllers.

A mix of differt controller types is not supported. e.g. LPe1250 and LPe12002 are same controller types and a combination is supported

P

Section X Communication / Network

1x on-board LAN Controller

Fast Ethernet Controller on-board
1 Gbit Intel Hartwell
Server Adapter with TOE
ext: for RJ 45-connector
SW: AFT, VLAN, Fast Channel

Teaming: Failover, Load Balancing
The Intel LAN Controllers 1000TX and 1000SX
can be used with the on-board controller in Teaming Mode.
Two onboard LAN ports can likewise educate a team.

A) PCI-Express Adapter 1000TX/SX

S26361-F3241-E1
Gigabit Ethernet Contr. 1000TX
Eth Ctrl 1x1Gbit PCI-e Pro/1000PT Cu
Intel PRO/1000 PT Server Adapter
PCIe x1
ext: for RJ45-connector, Cat 5
max. 2x per system

S26361-F3242-E1
Gigabit Ethernet Contr. 1000SX
Eth Ctrl 1x1Gbit PCI-e Pro/1000PF LC
Intel PRO/1000 PF Server Adapter
PCIe x4
ext:LC-connector
max. 2x per system

S26361-F3516-E1
Gigabit Ethernet Controller 1000TX
Eth. Ctrl 1x1Gbit PCIe PRO/1000PT Cu
Intel Shelter Iland (Hartwell)
PCIe x4
ext: for RJ45-plug, Cat 5
max. 2x per system

B) Dual Port PCI-Express Adapter 1000TX

4x

S26361-F3740-E1
(D3035)
Gigabit Ethernet Controller Dual 1000TX
Eth Ctrl 2x1Gbit Cu PCIe x4 D3035
Intel Powerville based 2 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 2x per system

Loose delivery with
FH and LP bracket included:
S26361-F3740-L501

C) Quad Port PCIe Adapter 1000TX

S26361-F3739-E1
(D3045)
Gigabit Ethernet Controller Quad 1000TX
Eth Ctrl 4x1Gbit Cu PCIe x4 D3045
Intel Powerville based 4 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 2x per system

Loose delivery with
FH and LP bracket included:
S26361-F3739-L501

D) 10GbE 2-Port SFP+ for MMF Module

2x

S26361-F3629-E2
(D2755)
10 Gigabit Ethernet Contr. dual port SFP+
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
PCIe x8, Low Profile, Full Height Bracket
ext: 2x SFP+ cage
max. 2x per system

The controller is delivered without SFP+ modules for optical cables, these must be ordered separately. Without SFP+ modules copper twinax cables are supported.

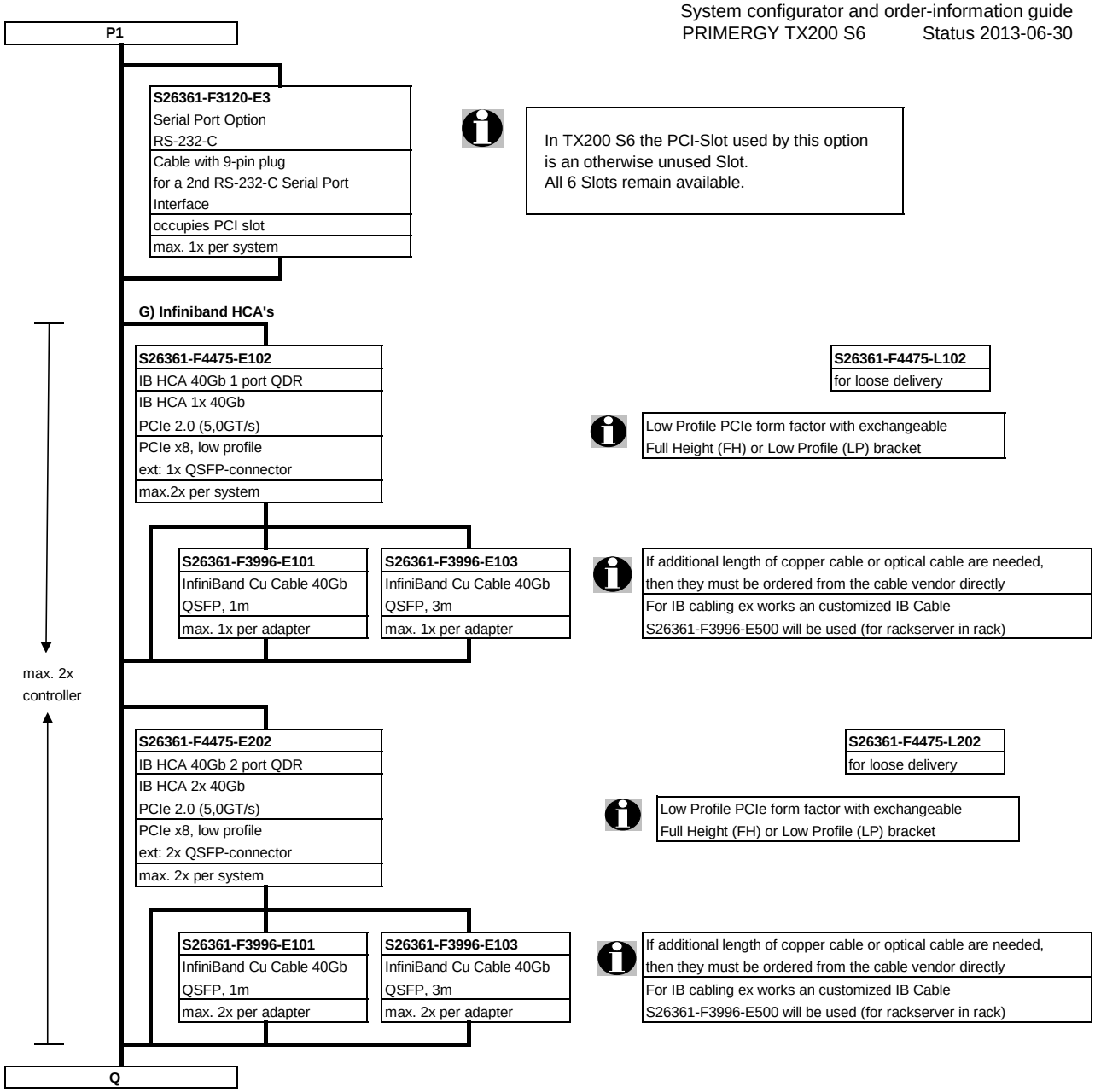
The adapter is also available as loose delivery with
FH and LP bracket included: S26361-F3629-L502

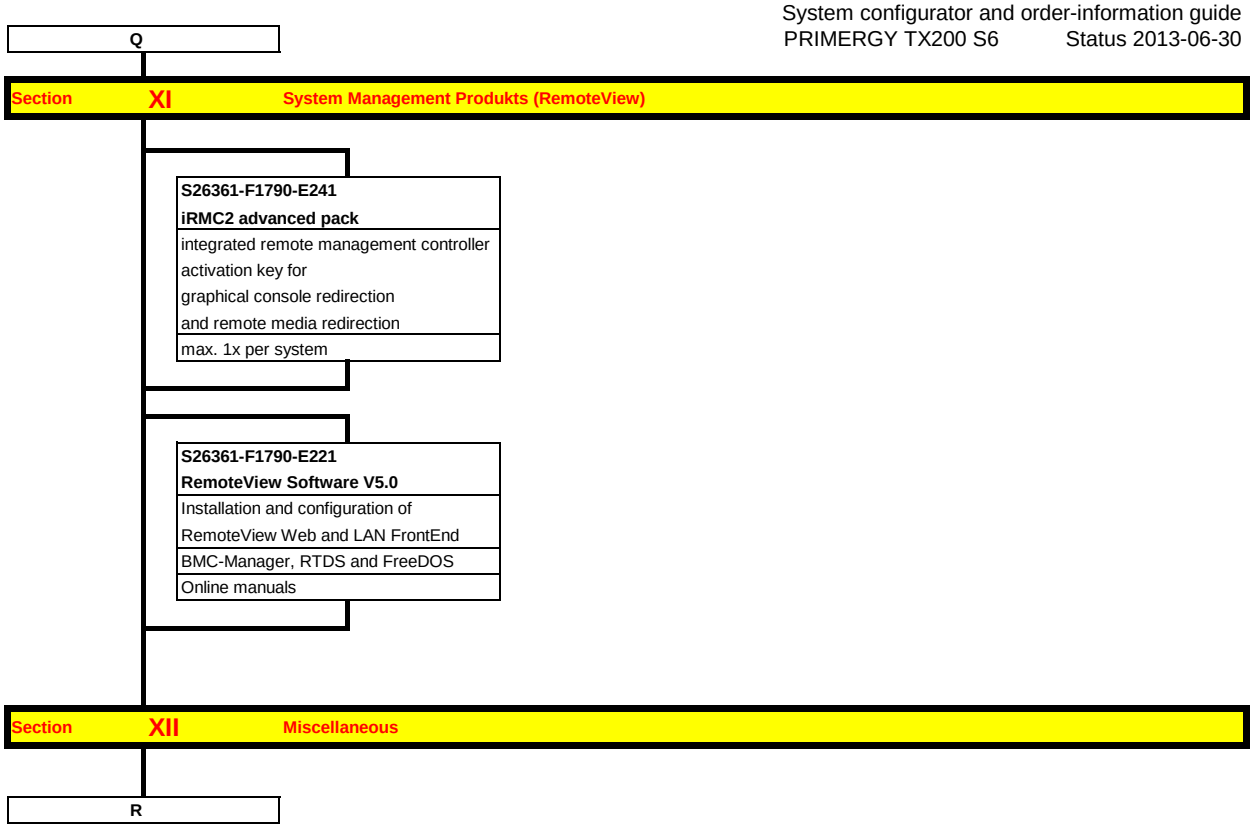
S26361-F3986-E3
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit
Ethernet FO cabling
ext:LC-connector
max. 2x per adapter

The SFP+ Module is also available as loose delivery
S26361-F3986-L3

Instead SFP+ Modules, SFP+ twinax cables from
the switch vendors may be used

P1


P1
S26361-F3120-E3
Serial Port Option
RS-232-C
Cable with 9-pin plug
for a 2nd RS-232-C Serial Port
Interface
occupies PCI slot
max. 1x per system
In TX200 S6 the PCI-Slot used by this option
is an otherwise unused Slot.
All 6 Slots remain available.
G) Infiniband HCA's
S26361-F4475-E102
IB HCA 40Gb 1 port QDR
IB HCA 1x 40Gb
PCIe 2.0 (5,0GT/s)
PCIe x8, low profile
ext: 1x QSFP-connector
max.2x per system
S26361-L102
for loose delivery
Low Profile PCIe form factor with exchangeable
Full Height (FH) or Low Profile (LP) bracket
S26361-F3996-E101
InfiniBand Cu Cable 40Gb
QSFP, 1m
max. 1x per adapter
S26361-F3996-E103
InfiniBand Cu Cable 40Gb
QSFP, 3m
max. 1x per adapter
If additional length of copper cable or optical cable are needed,
then they must be ordered from the cable vendor directly
For IB cabling ex works an customized IB Cable
S26361-F3996-E500 will be used (for rackserver in rack)
max. 2x
controller
S26361-F4475-E202
IB HCA 40Gb 2 port QDR
IB HCA 2x 40Gb
PCIe 2.0 (5,0GT/s)
PCIe x8, low profile
ext: 2x QSFP-connector
max. 2x per system
S26361-L202
for loose delivery
Low Profile PCIe form factor with exchangeable
Full Height (FH) or Low Profile (LP) bracket
S26361-F3996-E101
InfiniBand Cu Cable 40Gb
QSFP, 1m
max. 2x per adapter
S26361-F3996-E103
InfiniBand Cu Cable 40Gb
QSFP, 3m
max. 2x per adapter
If additional length of copper cable or optical cable are needed,
then they must be ordered from the cable vendor directly
For IB cabling ex works an customized IB Cable
S26361-F3996-E500 will be used (for rackserver in rack)
Q


Q
Section XI System Management Produkts (RemoteView)
S26361-F1790-E241
iRMC2 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
Section XII Miscellaneous
R

R

Section XIII Country specific power cord

S26361-F3301-E120
CCC Certification for China

Since the beginning of this year the specifications for the approval and production monitoring for China (CCC) have become stricter. This is why the CCC certification label must in future be ordered separately

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

PRIMERGY TX200 S6 Floorstand

PRIMERGY TX200 S6 19" Rack

max.2x

Power cord for floorstand versions for following countries:
1.8m, grey

T26139-Y1740-E10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1744-E10	UK, IR
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable like e.g. China

Country specific power cords are not required for rack versions.
Power cords are shipped in all rack versions 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.

option for floorstand

USB keyboards for floorstand versions for following countries:

USB standard keyboard KB400			**USB professional Keyboard KBPC PX ECO**	
S26381-K550-E170	KB500 CH	Switzerland	S26381-K341-E170	KBPC PX ECO CH
S26381-K550-E104	KB500 CZ SK	Czech/Slovak	S26381-K341-E104	KBPC PX ECO CZ/SK
S26381-K550-E120	KB500 D	Germany	S26381-K341-E120	KBPC PX ECO D
S26381-K550-E180	KB500 E	Spain	S26381-K341-E180	KBPC PX ECO E
S26381-K550-E140	KB500 F	France	S26381-K341-E140	KBPC PX ECO F
S26381-K550-E165	KB500 GB	United Kingdom	S26381-K341-E165	KBPC PX ECO GB
S26381-K550-E185	KB500 I	Italy	S26381-K341-E185	KBPC PX ECO I
S26381-K550-E155	KB500 S FIN	Sweden / Finland	S26381-K341-E154	KBPC PX ECO S/FIN
S26381-K550-E110	KB500 USA	USA / international	S26381-K341-E110	KBPC PX ECO US

Optional Mouse

S26381-K431-E100	Mouse M480 black
S26381-K431-E101	Mouse M480 grey

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	US, CDN
T26139-Y1744-L10	UK, IR
T26139-Y1745-L10	Italy
T26139-Y1746-L10	Denmark

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

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.

End PRIMERGY TX200 S6

Section XIV Energy Star

S26361-F3301-E201
TX200 S6 E-Star Fam1
Limits configuration in accordance with Energy Star requirements
max. 1x per system

The following order components out of the specific sections sections are allowed together with TX200 S6 E-Star Fam1:

SATA/SAS LFF (3.5") Base Unit with	**S26361-K1346-V201**
hot plug PSU and redundant Fans	**S26361-K1346-V601**

Turbo Quad-Core CPU`s	
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W)	**S26361-F3618-E240**
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W)	**S26361-F3618-E253**
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W)	**S26361-F3618-E266**
Always 2x per system (only one CPU is out of Energy Star specification)	

Registered (reg) RDIMMs (1.5V)	
8GB (1333MHz/DR)	**S26361-F3604-E514**
max. 12x per system	
Spare Channel Mode Installation	**S26361-F3284-E1**
Performance Mode Installation	**S26361-F3284-E2**
SP 12GB (3x 4GB 1333 MHz DR)	**S26361-F3604-E534**
2x per system	
Mirrored Channel Mode Installation	**S26361-F3284-E3**
MM 8GB (2x 4GB 1333MHz DR)	**S26361-F3604-E524**
2x per system	

DVD & tape Drives	
DVD Drives	
Blu-ray Combo slim SATA	**S26361-F3531-E2**
DVD-RW supermulti slim SATA	**S26361-F3269-E2**
DVD-ROM HH SATA	**S26361-F3266-E2**
DVD-RW supermulti HH SATA	**S26361-F3267-E2**
Blu-ray Combo HH SATA	**S26361-F3530-E2**
Blu-ray Triple Writer HH SATA	**S26361-F3585-E2**
RDX drive USB 5.25" internal	**S26361-F3857-E4**
max. 1x per system	

4GBit/s Fibre Channel Controller	
Emulex LPe1150 MMF LC	**S26361-F3306-E1**
max. 1x per system	

Mounting Kit + content	
Mounting Kit DVD (sl) + LSP/LSD + SAS LFF HDD	**S26361-F3294-E500**
Local Service Display	**S26361-F2557-E106**
min.1x, max. 6x per system	

RAID Controller	
RAID Ctrl. SAS 6G 5/6 512 MB (D2616)	**S26361-F3554-E512**
max. 2x per system	

Hard Disk Drives 3.5" SATA	
HD 500GB 7.2krpm 3.5"	**S26361-F3294-E500**
HD 750GB 7.2krpm 3.5"	**S26361-F3294-E750**
HD 1000GB 7.2krpm 3.5"	**S26361-F3294-E100**
HD 2000GB 7.2krpm 3.5"	**S26361-F3294-E200**
min.1x, max. 6x per system	

Change Report

Date	Order number	Changes
2013-03-14		HDD/SSD Description updated
2013-05-21	*F4582*, *F5225*	SSD added
2013-03-14	S26361-F3750-E324/504/E604	RDX & Cartridge bundles added
2012-11-22	F3749-E4 and F3750-E4	"as soon as available" removed
2012-11-22	S26361-F3857-E4	"as long as available" added
2012-10-08	S26361-F3749-Ex	Added RDX Drive
2012-10-08	S26361-F3750-Ex	Added USB3.0 Adapter
2012-09-28	S26361-F4541-E200	EOL SSD SAS 200GB SLC
2012-02-28	S26361-F3301-E120	add CCC Certification
2012-01-30	S26361-F3641-E2	new Blue-ray Triple Writer added
2011-12-21	S26361-F4482-E114	SAS HD 6G 144GB - no longer available
2011-10-30	S26361-F4541-Ex00	new SAS SSD with 100, 200, 400 GB added - as soon as available
2011-10-01	S26361-F3601-E250	new BC SATA HD - now available
2011-10-01	S26361-F3298-E64	64 GB SSD - no longer available
2011-05-03	S26361-F3610-E2/L502	Formal change from E1 / L501
2011-04-07	S26361-F2735-L202	Adapter angle …L31 must be ordered for asym. PC/DC racks additionally
2011-03-31	S26361-F3629-E2	10 Gigabit Ethernet controller added
2011-01-10	S26361-F3648-E160	Westmere-EP Refresh CPUs added
2010-12-30	S26361-F3585-E2	Blu-ray Triple Writer HH SATA - now available
2010-11-18	S26361-F3628-E1	Ctrl SAS 6G 8port external added
2010-08-10	S26361-F2826-E104	Mounting kit needs SAS controller within LFF SAS base unit (3.5")
2010-08-01	S26361-F3611-E1	New Quad LAN GbE controller - as soon as available
2010-08-01	S26361-F3610-E1	New Dual LAN GbE controller - as soon as available
2010-07-01	S26361-F3627-E1	LTO5 tape added
2010-06-23	S26381-K431-E101	Added Mouse M480 grey
2010-06-23		Keyboord Update
2010-06-01		First release