FUJITSU

PRIMERGY TX300 S6

System configurator and order-information guide

June 2012

ENERGY STAR

Contents

PRIMERGY Server

Instructions

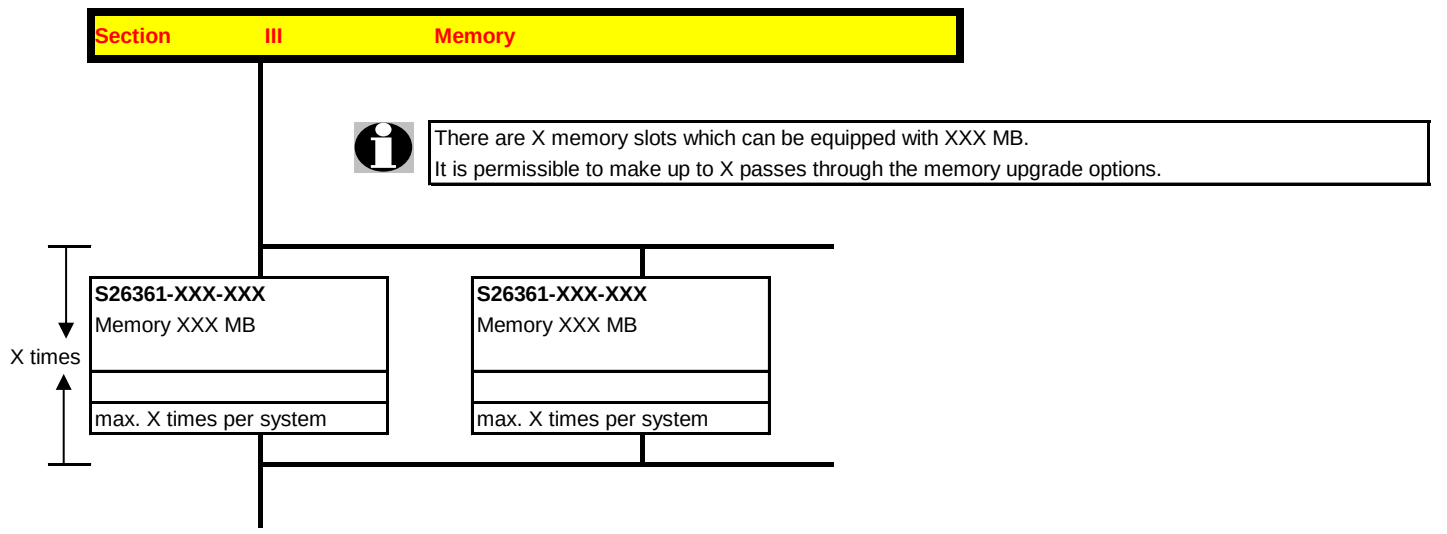
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

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-/SystemArchitect.

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.

For further information 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-/SystemArchitect.
Subject to change and errors excepted.

Configuration diagram PRIMERGY TX300 S6

System unit (I)

SIDE VIEW

1. PSU

Hot plug power supply

2. PSU

Redundant power supply option

Memory CPU1
(Channel A + B + C)

Bank 1 (3 Modules)
Bank 2 (3 Modules)
Bank 3 (3 Modules)

Memory CPU2
(Channel D + E + F)

Bank 1 (3 Modules)
Bank 2 (3 Modules)
Bank 3 (3 Modules)

Memory (III)

Xeon Dual-or Quad Core CPU incl. Heatpipe

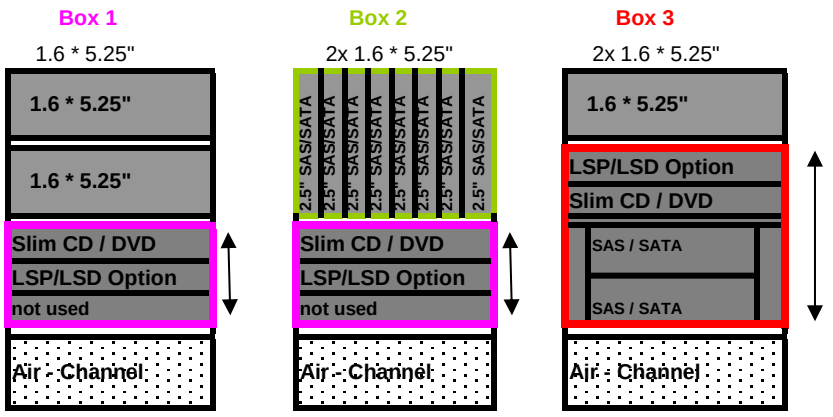
Xeon Dual-or Quad Core CPU incl. Heatpipe

Processor (II)
Xeon Dual-or Quad Core CPU with serial QPI Interface and 3 memory channels

FRONT VIEW

3 x 5.25" bays available

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



Accessible drives (V)

Mounting Kit DVD(sl) + LSP/LSD: (Option A)

- support for SL (0.5") DVD Drive + LSP/LPD (Local Service Panel/Display)
- occupies one 5.25" bay

Optional SFF SAS/SATA HDD extension Box: (Option B)

- support for 8x 2.5" (SFF) SAS/SATA HDD hot plug
- occupies two 5.25" bays

MtK DVD(sl)+LSP/LSD+SAS/SATA LFF HDD: (Option C)

- support for 2x 3.5" SAS/SATA HDD hot plug
  + support for SL (0.5") DVD Drive + LSP/LPD (Local Service Panel/Display)

Modular RAID Support	Raid Card for IME, Raid 0 / 1E
	Raid Card for Raid 5

Extension slots for:
SCSI / SAS Controller for backup(VII)
SAS Disk Array (VIII)
Communication/Network (IX)
Miscellaneous (X)

Slot 7 PCIe-2 x8 (wired x8), notched, 250mm
Possible to plug x16 cards (Blue colored)

Slot 6 PCIe-2 x8 (wired x8), max. 250mm

Slot 5 wired x8

Slot 5 PCIe-2 x8 (wired x4), notched, 250mm
Possible to plug x16 cards (Blue colored)

Slot 5 = wired x8 if slot 4 is empty

Slot 4 PCIe-2 x8 (wired x4), max. 250mm

Slot 3 wired x8

Slot 3 PCIe-2 x8 (wired x4), max. 250mm

Slot 3 = wired x8 if slot 2 is empty

Slot 2 PCIe-2 x8 (wired x4), max. 250mm

Slot 1 PCIe-2 x8 (wired x4), max. 250mm
Reserved for modular RAID-Controller

(3x 120mm Standard Fans; No Redundancy)

FAN 3
FAN 2
FAN 1

(3x 120mm hot plug Double-Fans; with Redundancy)

FAN 5 + 6
FAN 3 + 4
FAN 1+ 2

internal USB or USSD

Hard disk drives (VI)

3.5" SAS / SATA
1x 6-port
SAS backplane

1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA

Key: Included in basic unit Option (LP ready = Slots for low profile boards)

One CPU (first CPU) and one memory per CPU (first memory) has to be selected for an orderable basic unit.

Configuration diagram PRIMERGY TX300 S6

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1. PSU

Hot plug power supply

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(Channel A + B + C)

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Bank 2 (3 Modules)
Bank 3 (3 Modules)

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(Channel D + E + F)

Bank 1 (3 Modules)
Bank 2 (3 Modules)
Bank 3 (3 Modules)

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Xeon Dual-or Quad Core CPU incl. Heatpipe

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Reserved for modular RAID-Controller

FRONT VIEW

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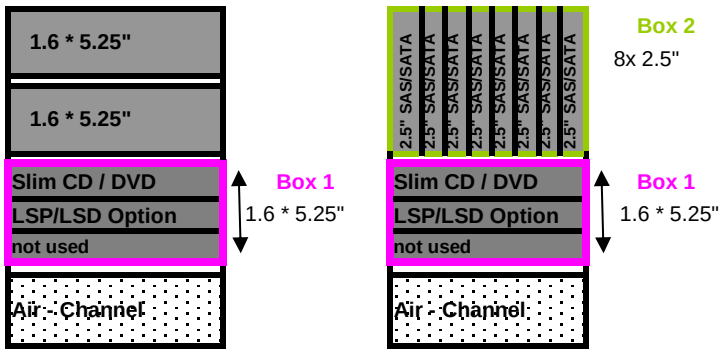

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(3x 120mm Standard Fans; No Redundancy)

FAN 3
FAN 2
FAN 1

(3x 120mm hot plug Double-Fans; with Redundancy)

FAN 5 + 6
FAN 3 + 4
FAN 1+ 2

internal USB or USSD

Hard disk drives (VI)

2.5" SAS/SATA
1x 12-port
SAS backplane

12x 2.5" -Option

1 * 2.5" SAS / SATA (x12)

Key: Included in basic unit | Option | (LP ready = Slots for low profile boards)

One CPU (first CPU) and one memory per CPU (first memory) has to be selected for an orderable basic unit.

Start PRIMERGY TX300 S6

SW 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.
Exception: VMware SW

VMware-Software
- VirtualCenter Management Server for any server released for Windows Server 2003
- Virtual Infrastructure 3 for PRIMERGY > except all mono PRIMERGY systems
- ESX2 for PRIMERGY RX/TX300S2, RX/TX600S3, BX620S2, BX630 Dual/Quad, BX630 8-way

For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.

Linux - Software **)
- Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- Red Hat EL (OEM): LO

Microsoft - Windows Server 2008 Server Licenses
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
- Windows Server 2008 Foundation
- Windows Web Server 2008

PRIMECLUSTER *)
- Clustering
- Load Balancing

Microsoft - Windows Server 2008 Client Access Licenses
- Windows Server 2008 Device CAL
- Windows Server 2008 User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL

SCO - Software: **)
- SCO OpenServer (only 1- and 2-way Tower servers)
- SCO UnixWare (only 1-, 2, and 4-way Tower and Rack servers)

x10sure *)
x10sure Control Nodes and Compute Nodes
Windows Server 2003 Compute Nodes
for PRIMERGY BX600, RX/TX

MultiPath, Duplex Data Manager (DDM) W2K; W2K3 Linux (W-DDM)
for PRIMERGY except all mono PY systems

Details eg. version numbers are published on the page referred to

Manageability Software: V)**
- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy
- Altiris Server Deployment

Backup-Software / Application-Software: U
- ARCserve
- openSM2

***) Pay attention to the x10sure release and ordering information in the Extranet under**
https://ts.fujitsu.com/x10sure

***) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under**
https://partners.ts.fujitsu.com/com/products/software/cluster%20technology/primecluster/Pages/default.aspx

****) 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**

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 TX300 S6

SW Configurator EM64T / IA64

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.
Exceptions: VMware SW, Citrix XenServer

For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.

VMware-Software
- VirtualCenter Management Server for any server released for Windows Server 2003
- Virtual Infrastructure 3 for PRIMERGY > except all mono PRIMERGY systems
- ESX2 for PRIMERGY RX/TX300S2, RX/TX600S3, BX620S2, BX630 Dual/Quad, BX630 8-way

Citrix XenServer / Essentials for XenServer
- XenCenter Management Server for any server released for Windows 2000/XP/Vista and Server 2003/2008
- XenServer and Essentials for XenServer released for RX200S5, RX300S4/S5, RX600S4, BX620S4/S5, BX920S1

Microsoft Hyper-V Server and System Center Essentials
- Microsoft System Center Essentials Management Suite for any server released for Windows Server 2008 SP2
- Microsoft Hyper-V Server 2008 R2

Microsoft - Windows Server 2008 R2 Server Licenses
- Windows Server 2008 R2 Datacenter
- Windows Server 2008 R2 Enterprise
- Windows Server 2008 R2 Standard
- Windows Server 2008 R2 Foundation
- Windows Web Server 2008 R2

Microsoft - Windows Server 2008 Server Licenses
- Windows Server 2008 Datacenter
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
- Windows Server 2008 Foundation
- Windows Web Server 2008

Microsoft - Windows Server 2008 Client Access Licenses
- Windows Server 2008 Device CAL
- Windows Server 2008 User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL

only EM64T

Linux - Software *) **)
Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- Red Hat EL (OEM): LO

PRIMECLUSTER *)
- Clustering
- Load Balancing

QuickTransit (QT)
only EM64T Transition Solaris Apps. to x86-64 PY with Linux

only EM64T

MultiPath, Duplex Data Manager (DDM) Windows, Linux (W-DDM)

Details eg. version numbers are published on the page referred to

only EM64T

Manageability Software: V)**
- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy

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https://partners.ts.fujitsu.com/com/products/software/cluster%20technology/primecluster/Pages/default.aspx

****) Pay attention to release and order information in PRINCE -> Operating System**
https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

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for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

Continue with PRIMERGY HW configurator

Start PRIMERGY TX300 S6

Section | SAS - Basic units

SAS - System unit, Rack and Floorstand including:

* By a key lockable front bezel in floorstand version
* Basic units with:

A.) - 1x 800W Hot-Plug Power Supply (no redundancy) + 3x 120mm Standard Fans (no redundancy)

B.) - 2x 800W Hot-plug and redundant Power Supplies + 3x hot-plug and redundant Double Fans

- 9 memory DIMMs per CPU (max 96GB) => Total 18 DIMMs (max 192GB) for two CPU`s
- SAS backplane with 6 x 1" bays for 3.5" hot plug SAS or SATA HD`s

* 3 drive bays 5,25" for accessible drives free available.
* Integrated ServerView Diagnostics Technology (Diagnosis LED`s) for indication of internal failed components

Options:

* 2nd hot plug power supply module 800W (PSU) for redundancy in Basic Unit A.)
* 12x 2.5" HD backplane conversion kit
* - Optional modular RAID 0/1 controllers with IME (Integrated Mirroring Enhanced) support based on LSI 1064 or LSI SAS2008 chipset or as alternative
  - optional modular RAID 5 controller based on LSI SAS2108 chipset
* One 0,5" bay can be configured with an optional LC- display for LocalView in a drawer or with an optional CSS (Customer Self Service) modul for indication of a failed component via LED`s Simultaneously components are marked which can be replaced by the customer. This LEDs can be dispalyed during service even without mains connection.

Systemboard D2619 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® 5520P (codenamed Tylersburg-EP or 36D)

* 7 PCI slots: - 2x PCIe-2 x8 (wired x8, notched, possible to plug x16 card)
  - 5x PCIe-2 x8 (wired x4)
  From 4 PCIe-slots each two wired x4 slots can be combined to one wired x8 slot
  One PCIe-2-slot is populated with one of two possible modular Raid-controllers.

* 18 memory slots for max. 384 GB (12x 32GB) RAM DDR3 available
  - Memory is divided into 9 DIMMs per CPU (3 channels with 3 slots per channel)
  - Max. three 8GB modules or two 16/32GB quad rank modules are possible per channel
  First Memory (one module) has to be selected for an orderable basic unit per CPU
  - Memory upgrade is possible module wise
  - 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 for memory modules,

* Dual Port 10/100/1000 x4 PCI Express* Gigabit Ethernet Intel LAN controller Zoar on-board
* iRMC S2 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller. The Service LAN-port can be switched alternatively on standard Gbit LAN port 1

* Graphics Controller integrated in iRMC S2 (integrated Remote Management Controller): 1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz
(1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

A

A

Interfaces at the rear: * 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared) * 1x RS-232-C (serial, 9 pins) * 1x VGA (15 pins) * 4x USB **2.0** (UHCI) with **480MBit/s,** no USB wakeup * 2x LAN RJ45, 1x Service-LAN RJ45
Interfaces on the front: * 3x USB **2.0** (UHCI) with **480MBit/s,** no USB wakeup * 1x VGA (15 pins) as an option
Interfaces internal: * 2x released internal USB Interfaces for backup devices, * 1x USB **2.0** (UHCI) with **480MBit/s** for dongle funcionality, no USB wakeup
Cables: * SATA cable for DVD. * 2x SAS cables for connection of 4 SAS-ports each incl. signaling
* ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates * Documentation engl. (multilingual on CD)

B

B

Floorstand-version S26361-K1345-V101
without CPU and Memory

with:
- 1 hot plug power supply 800W
(no redundancy)
- Three standard fans
(no redundancy)
- 6-port SAS backplane for 6x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers

- One CPU (first CPU) has to be configured additionally for a base configuration

- One memory kit per CPU has to be configured for a base configuration

Rack-version S26361-K1345-V401
without CPU and Memory

with:
- 2 hot-plug power supplies 800W
(incl. redundancy)
- Three hot-plug redundant double fans

- 6-port SAS backplane for 6x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
- 2 power cords with inlet connector for non-heating apparatus

- One CPU (first CPU) has to be configured additionally for a base configuration

- One memory kit per CPU has to be configured for a base configuration

- No Rackmount Kit included !
- The Rackmount Kit or the option no Rackmount Kit has to be ordered separately

Floorstand-version S26361-K1345-V201
without CPU and Memory

with:
- 2 hot-plug power supplies 800W
(incl. redundancy)
- Three hot-plug redundant double fans

- 6-port SAS backplane for 6x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers

- One CPU (first CPU) has to be configured additionally for a base configuration

- One memory kit per CPU has to be configured for a base configuration

only on special release:

Rack-version S26361-K1345-V301
without CPU and Memory

with:
- 1 hot plug power supply 800W
(no redundancy)
- Three standard fans
(no redundancy)
- 6-port SAS backplane for 6x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
- 2 power cords with inlet connector for non-heating apparatus

- One CPU (first CPU) has to be configured additionally for a base configuration

- One memory kit per CPU has to be configured for a base configuration

- No Rackmount Kit included !
- The Rackmount Kit or the option no Rackmount Kit has to be ordered separately

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

Be aware of import restrictions!
Only 1 TPM per system.
Loose delivery for later integration possible for customer.

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

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

D

C

Mounting kits for PRIMERGY TX300 S6
- 1 pair of telescopic rails full extraction
- 1 Vario carrier DC-PC-3rd party Rack
  allows toolless adjustable in depth and easy mounting
- 1 bracket PRIMECENTER and DataCentre-Racks

Mounting kit for mounting of servers in FSC 19" PRIMECENTER- racks and all server racks conforming to EIA standard EIA-310-D for 19" racks. Therefore the mounting kit is variable in depth from 704-790mm

C

PRIMERGY TX300 S6 Rack

S26361-F2735-E202
RMK-F2_3-xU-Servers_Drop-in telescopic rails, full extraction, toolless mounting
consisting of
- 1 pair of telescopic rails with easy-mounting-clips and drop-in mechanism

1x per system

S26361-F2735-E111
No Rackmount-Kit option
Only for loose deliveries
No mounting in Racks possible
max. 1x per system

D

S26361-F2735-L202
RMK-F2_3-xU-Servers_Drop-in
for loose delivery

S26361-F2735-E7
Cable management PC-Rack
- for FSC Primecenter / Datacenter Racks
- not for 3rd party

1x per system

S26361-F2201-E20
Cable arm 3rd P-Rack
- for 3rd party

1x per system

In case nor cable arm is ordered, Server must be prevent of beeing pulled out.

S26361-F2735-L7
Cable management PC-Rack
for loose delivery

for 3rd party rack cable routing please order
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

PRIMERGY 42/23U rack

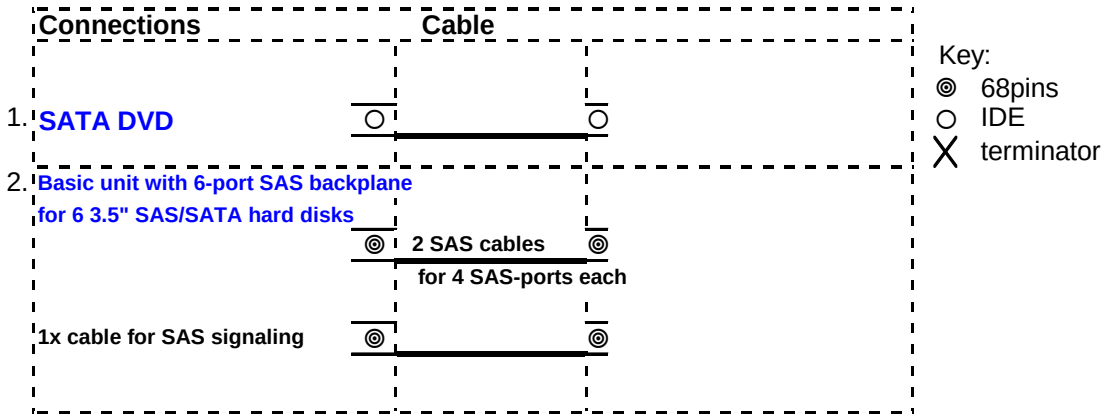
"Rack-mounting ex factory"
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the PRIMERGY racks. In case of the 46 U PRIMERGY Rack, this service has to be ordered, to get the mounting kits and the cables installed.

For later conversion the following kits are available:	FSC PC-/DC-/3rd party- Rack
1.) Conversion kit 2 Floor -> Rack Conversion PRIMERGY TX300 S6 base unit floorstand into base unit rack. Only conversion, no mounting kit. Mounting kit has to be ordered seperatly.	**S26361-F1729-L250** **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 for mounting in DC-, PC-racks or 3rd party- Rack cable arm	either one to be ordered **S26361-F2735-L7** **or** **S26361-F2201-L20**

D

D

Cables included in basic unit



Only possible for basic units S26361-K1267-V101 and -V301
Provides PSU redundancy for Basic Units without redundancy

S26113-F556-E10 **2nd power supply 800W** **(hot plug) for redundancy**
occupies one bay for hot plug power supply
max. 1x per system

Only **floorstand versions**
A second, redundant power supply requires an additional country specific power cord (section XIII)

for later upgrade of basic units S26361-K1345-V101 and -V301
with redundant fan upgrade kit

Hot Plug Redundant Fan Upgrade Kit: For upgrade of standard into redundant fans Constist of three fan boxes with one redundant 120mm double fan each	**S26361-F2544-L83**

1 power supply module 800W hot plug: Supplementary module	**S26113-F556-L10**

E

E

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**	
Xeon X5670 6C/2.93GHz/12M/6,40GT/s (95W)	**S26361-F3619-E293**	
Xeon X5675 6C/3.06GHz/12M/6,40GT/s (95W)	**S26361-F3619-E306**	
Xeon X5680 6C/3.33GHz/12M/6,40GT/s (130W)	**S26361-F3619-E333**	
Xeon X5690 6C/3.46GHz/12M/6,40GT/s (130W)	**S26361-F3619-E346**	
Frequency Optimized Turbo Quad-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 X5647 4C/2.93GHz/12M/5,86GT/s (130W)	**S26361-F3620-E293**	
Frequency Optimized Turbo Quad-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 X5667 4C/3.06GHz/12M/6,40GT/s (95W)	**S26361-F3620-E306**	on special release
Xeon X5677 4C/3.46GHz/12M/6,40GT/s (130W)	**S26361-F3620-E346**	on special release
Xeon X5687 4C/3.60GHz/12M/6,40GT/s (130W)	**S26361-F3620-E360**	
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**	

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**

F

F

Section III Memory

- There are 9 memory slots for max.
72GB (9x 8GB single / dual rank 1.5V RDIMM´s)
96GB (6x 16GB quad rank 1.5V RDIMMs)
12GB (6x 2GB UDIMMs)
=> max. 192GB for two CPU`s (96GB per CPU)
(For explanation of following terms refer to section "Memory Configurations"
- The memory area is divided into 3 channels per CPU with 3 slots per channel
- Slot 1 of each channel belongs to memory bank 1, the slot 2 belongs to memory bank 2 and slot 3 belongs to memory bank 3
Systems with 3DPC (9 DIMMs / CPU) do not support mix of dual rank and quad rank modules

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 **single rank**, 4GB and 8GB **dual rank, 16GB quad rank**
or with unbuffered x8 organized DDR3 modules: 2GB **dual rank**

2.) In the "Spare Channel Mode" is following configuration possible
- Each memory bank can optionally be equipped with 3x2GB **single rank**,
3x4GB and 3x8GB **dual rank or 3x 16GB quad rank** 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 and 2x8GB **dual rank** or 2x16GB quad rank 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 eight 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 two times 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 two times per CPU)

F1

F1

For a description of memory configurations refer to section "Memory Configurations"

Minimum one memory module or order code per CPU = first memory

6x/9x per CPU with max. 2/3 modules per channel

Registered (reg) RDIMMs (1.5V)

For "independent channel mode" usage!	
- One **DDR3 RDIMM** ECC memory module	
2GB (1333MHz/SR)	**S26361-F3604-E513**
4GB (1333MHz/S/DR)	**S26361-F3604-E514**
8GB (1333MHz/DR)	**S26361-F3604-E515** ★
16GB (1066MHz/QR)	**S26361-F3604-E516**
32GB (1066MHz/QR)	**S26361-F3604-E517**
Choose up to 9 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

Mix of Dual Rank and Quad Rank Memory limits the max. amount of Memory Modules per CPU to 6.

as soon as available

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**
16GB (1333MHz/DR)	**S26361-F4492-E516**
Choose up to 6 order codes above per CPU	

Note 2.)

LV Memory (1.35V) is only supported by CPU Type *56xx

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)

In case of 3 DIMM / Channel configuration, LV module will opearate at Standard Voltage (1.5V) mode

Unbuffered (ub) UDIMMs cannot be mixed with registered (reg) RDIMMs
Memory speed in all configurations with UDIMMs is max. 1066MHz depending on the used CPU speed

6x per CPU with max. 2 modules per channel

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** on special re
No Chipkill	
Choose up to 6 order codes above per CPU	

G1 G2

G1 G2

S26361-F3284-E1 ★	S26361-F3284-E2 ★
Spare Channel Mode Installation	**Performance Mode Installation**
With this order code a BIOS setup for spare mode is factory preinstalled	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 use the Spare Channel Mode	The three identical memory modules of following order codes are always equipped in one memory bank to run with highest performance
In this mode only two modules are active the third module is the spare module	In this mode all three modules are active and full capacity can be used

Registered (reg) RDIMMs (1.5V)

See Note 1.) - 4.)

SP = for "Spare Channel and Performance Mode" usage!	
- Three **DDR3 RDIMM** ECC memory modules	
SP 6GB (3x 2GB 1333 MHz SR) = 4GB usable memory for Spare Channel Mode = 6GB usable memory for Performance Mode	**S26361-F3604-E533**
SP 12GB (3x 4GB 1333 MHz S/DR) = 8GB usable memory for Spare Channel Mode = 12GB usable memory for Performance Mode	**S26361-F3604-E534**
SP 24GB (3x 8GB 1333MHz DR) = 16GB usable memory for Spare Channel Mode = 24GB usable memory for Performance Mode	**S26361-F3604-E535** ★
SP 48GB (3x 16GB 1066MHz QR) = 32GB usable memory for Spare Channel Mode = 48GB usable memory for Performance Mode	**S26361-F3604-E536**
SP 96GB (3x 32GB 1066MHz QR) = 64GB usable memory for Spare Channel Mode = 96GB usable memory for Performance Mode	**S26361-F3604-E537**
Choose up to 3 order codes for SR/DR per CPU	
Choose up to 2 order codes for QR per CPU	

on special release

For later upgrade of Spare / Performance Mode 3 individual loose delivery modules of the same type need to be ordered

Registered (reg) LV RDIMMs (1.35V)

See Note 1.) - 4.)

SP = for "Spare Channel and Performance Mode" usage!	
- Three **DDR3 LV RDIMM** ECC memory modules	
SP 12GB (3x 4GB 1333 MHz S/DR) = 8GB usable memory for Spare Channel Mode = 12GB usable memory for Performance Mode	**S26361-F3605-E534**
SP 24GB (3x 8GB 1333MHz DR) = 16GB usable memory for Spare Channel Mode = 24GB usable memory for Performance Mode	**S26361-F3605-E535**
Choose up to 2 order codes above per CPU.	

2x/3x for each CPU with max. 2/3 modules per channel

H1 H2

H1

H2

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

2/3x per CPU with max. 2/3 modules per channel

Registered (reg) RDIMMs (1.5V)

See Note 1.) - 4.)

MM = for "Mirrored Channel Mode" usage!	
- Two **DDR3 RDIMMs** ECC memory modules	
MM 4GB (2x 2GB 1333MHz SR) = 2GB usable for Mirrored Channel Mode	**S26361-F3604-E523**
MM 8GB (2x 4GB 1333MHz S/DR) = 4GB usable for Mirrored Channel Mode	**S26361-F3604-E524**
MM 16GB (2x 8GB 1333MHz DR) = 8GB usable for Mirrored Channel Mode	**S26361-F3604-E525**
MM 32GB (2x 16GB 1066MHz QR) = 16GB usable for Mirrored Channel Mode	**S26361-F3604-E526**
MM 64GB (2x 32GB 1066MHz QR) = 32GB usable for Mirrored Channel Mode	**S26361-F3604-E527**
Choose up to 3 order codes above per CPU.	

on special release

For later upgrade of Mirroring Mode
2 individual loose delivery modules of the same type need to be ordered

Registered (reg) LV RDIMMs (1.35V)

See Note 1.) - 4.)

MM = for "Mirrored Channel Mode" usage!	
- Two **DDR3 LV RDIMM** ECC memory modules	
MM 8GB (2x 4GB 1333MHz S/DR) = 4GB usable for Mirrored Channel Mode	**S26361-F3605-E524**
MM 16GB (2x 8GB 1333MHz DR) = 8GB usable for Mirrored Channel Mode	**S26361-F3605-E525**
Choose up to 3 order codes above per CPU.	

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**	
16GB (1066MHz/QR)	**S26361-F3604-L516**	
32GB (1066MHz/QR)	**S26361-F3604-L517**	on special release, as soon as available
- 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

I

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Section IV Graphics

Graphics Controller integrated in iRMC S2 (integrated Remote Management Controller):
1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz
(1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

S26361-F2571-E16
Optional Front-VGA
consists of internal cable and front VGA connector
max. 1x per system

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 4

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

J

Memory Configuration PRIMERGY TX300 S6

Each CPU offers **9 Slots** for DDR3 Memory Modules organised in **3 Banks and 3 Channels.**
If you need more than 9 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 LV/LV / 1.35V DIMMs are mixed, the DIMMs will run at 1.5V
Mixing of SR / DR and QR Memory Modules will limit the max. amount of modules per CPU to 6.

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 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 4GB	with one CPU
Max. Memory per CPU	6/9 Modules / CPU	6x2GB	6x16GB	6x 8GB	with one CPU
Max. Memory per System	12 Modules / System	24GB	192GB	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, 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	Mix of SR + DR
	2 / 3	2	800	Mix of QR* + SR / DR
	3	3	800	Mix of 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

* no memory modules released for this configuration
** lost LV-mode, memory will switch to 1,5V Vcc automatically

Used CPU	Max. Memory-Bus speed depending on DIMMs / channel if following memory speed is used for specific CPU`s														
	UDIMM 1333 MHz 1.5V			UDIMM 1333 MHz LV / 1.35V			RDIMM 1333 MHz 1.5V			RDIMM 1333 MHz LV / 1.35V			RDIMM 1066 MHz (QR) 1.5V		
Populated Dimms / Channel	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Dual-Core CPU with max. 800MHz DDR3 speed (4.8GT/s)															
Xeon E5503 2C/2.00GHz/2M/4,80GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Quad-Core CPU`s with max. 800MHz DDR3 speed (4.8GT/s)															
Xeon E5506 4C/2.13GHz/4M/4,8GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Xeon E5507 4C/2.26GHz/4M/4,8GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Turbo Quad-Core CPU`s with max. 1066MHz DDR3 speed (5.86GT/s)															
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Turbo Six-Core CPU`s with max. 1333MHz DDR3 speed (6.4GT/s)															
Xeon X5650 6C/2.66GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5660 6C/2.80GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5670 6C/2.93GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5680 6C/3.33GHz/12M/6,40GT/s (130W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Frequency Optimized Turbo Quad-Core CPU`s with max. 1333MHz DDR3 speed (6.4GT/s)															
Xeon X5667 4C/3.06GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5677 4C/3.46GHz/12M/6,40GT/s (130W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Low Voltage Quad-Core CPU with max. 1066MHz DDR3 speed (4.8GT/s)															
Xeon L5609 4C/1.86GHz/12M/4.80GT/s (40W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	1066	-
Low Voltage Turbo Quad-Core CPU with max. 1066MHz DDR3 speed (5.86GT/s)															
Xeon L5630 4C/2.13GHz/12M/5,86GT/s (40W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon L5640 6C/2.40GHz/12M/5.86GT/s (60W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-

SR - Single Rank - 1Rx4
DR - Dual Rank - 2Rx4
QR - Quad Rank - 4Rx4

1DPC = 1 DIMM per Channel
2DPC = 2 DIMM per Channel
3DPC = 3 DIMM per Channel

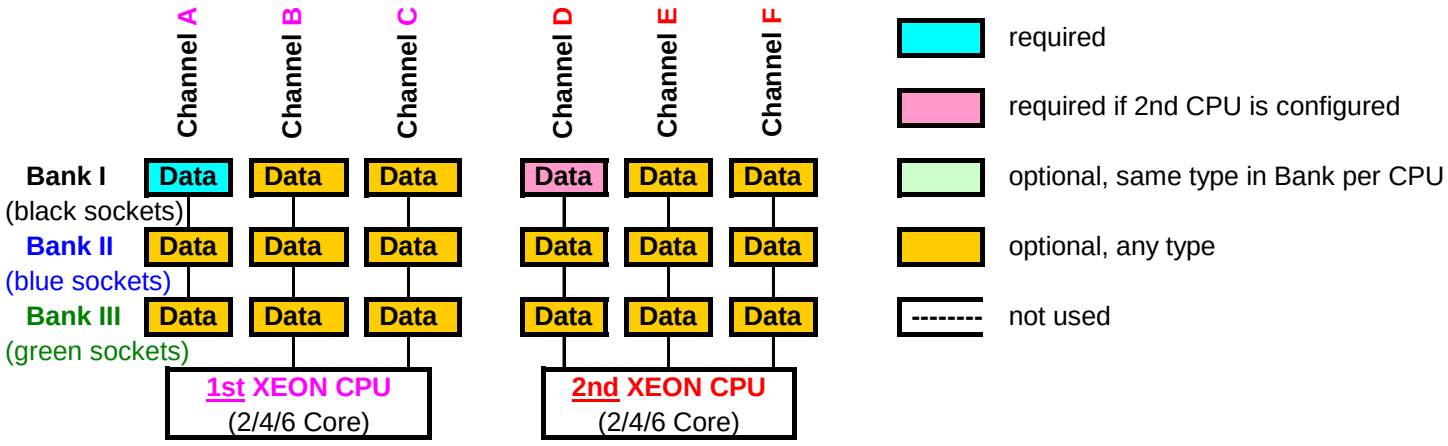
1333
1066
800
not supported
special release

Configuration hints:

- The memory sockets on the systemboard offer a color coding:
  - **Bank I** black sockets
  - **Bank II** blue sockets
  - **Bank III** green sockets
- 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 III 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
  - **Bank III on CPU 2** up to 3 memory modules connected to Channel D, E and F on the second CPU

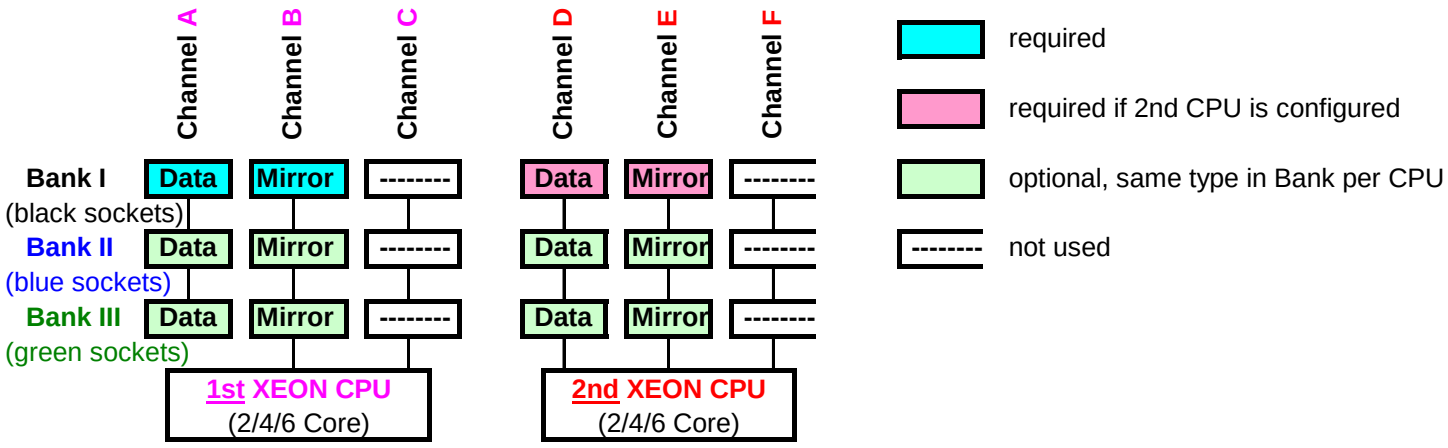
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



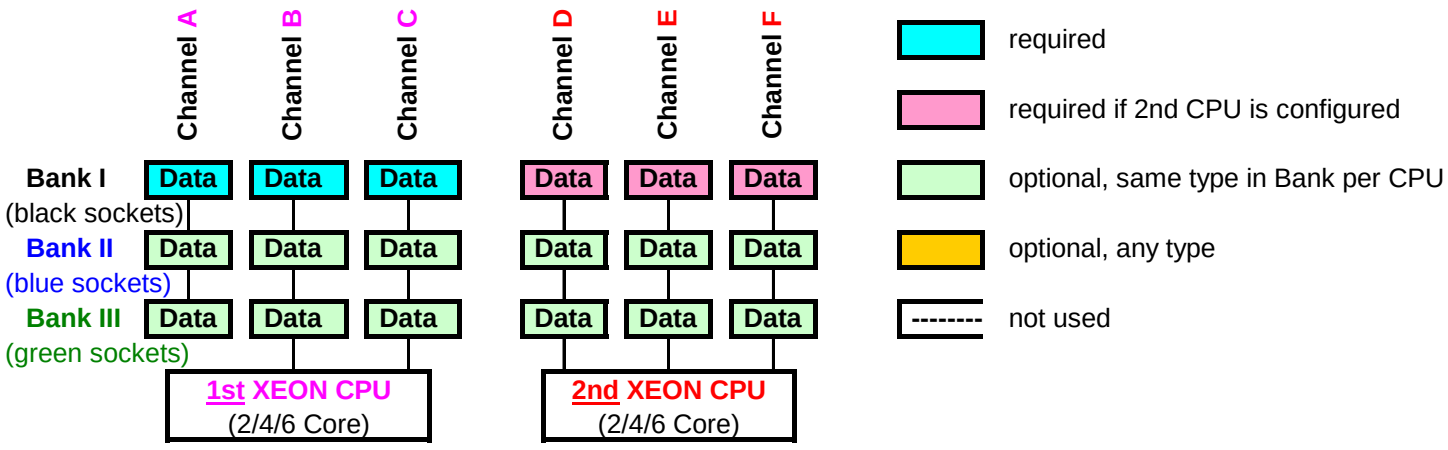
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



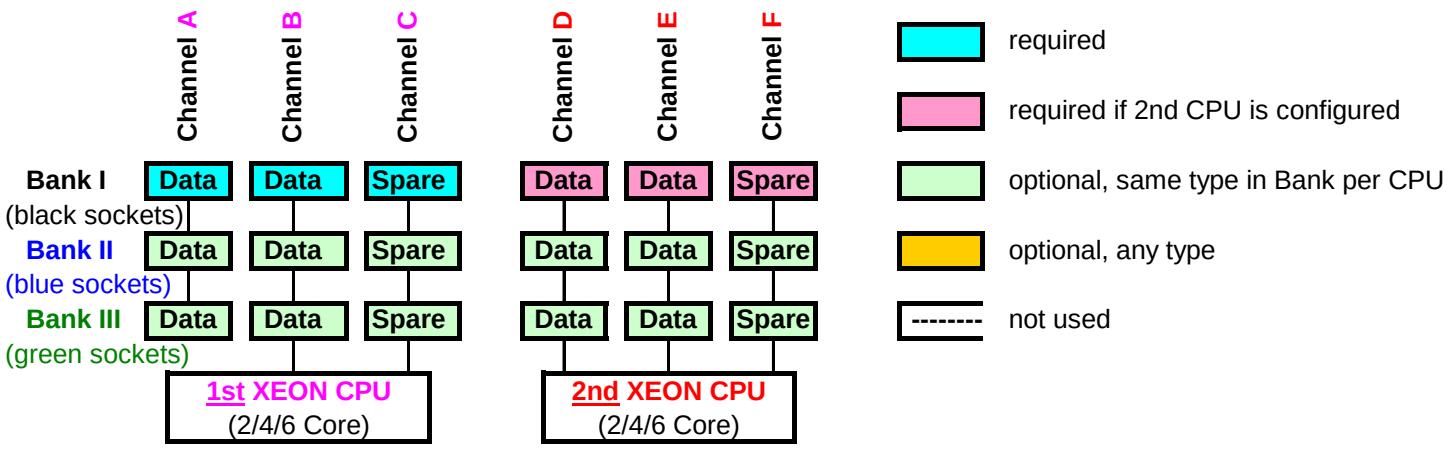
Mirrored Channel Mode requires identical modules on channel A and B (1st CPU) or channel D and E (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
Channel C (1st CPU) or channel F (2nd CPU) are not usable in Mirrored Channel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

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU

4. Spare Channel Mode



Spare Channel Mode requires identical modules (same capacity and technology) 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

J

Section V Accessible drives and 3.5" SAS / SATA HDD extension box

There are 3 bays (1.6" x 5.25") for accessible drives.

see Conf. diagram
Option B

see Conf. diagram
Option C

N1

Configuration of Option B

O

S26361-F2826-E103
Mounting Kit DVD(sl) +
LSP/LSD + SAS 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 **DVD**
- 2x 1 * 3.5" **SAS HD`s only**

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 HDD bays

max. 1 per system

S26361-F2826-E204
Mounting Kit DVD(sl) + LSP/LSD

Occupies **one 5.25" x 1.6" bay**
in the accessible bay area

Offers bays for:
- 1x **LSD/LSP** option
- 1x 0.5 * 5.25" SATA **DVD**

max. 1x per system

see Conf. diagram
Option A

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

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

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-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", satin 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", satin black bezel
max. 1x per system

S26361-F3266-E2
DVD-ROM HH SATA
16x DVD 48x CD
1,6 x 5,25", Front schwarz
max. 1x pro System

S26361-F3267-E2
DVD-RW supermulti HH SATA
alle Formate, DUAL/DL, DVD-RAM
nur W2K, W3K und Linux
1,6 x 5,25", Front schwarz
max. 1x pro System

S26361-F3530-E2
Blu-ray Combo HH SATA
6x BD-ROM, 16x DVD, 40x CD
BD DL und alle CD/DVD Formate
1,6 x 5,25", Front schwarz
max. 1x pro 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

K

K

2x

S26361-F3324-E4 ★	S26361-F3325-E4 ★	S26361-F3857-E4
Tape drive DDS Gen5 USB 5.25"	Tape drive DDS Gen6 USB 5.25"	RDX drive USB 5.25" internal
36GB, 3MB/s, USB 2.0	80GB, 6MB/s, USB 2.0	80-320GB, 25MB/s, USB 2.0
Connector: USB "B"	Connector: USB "B"	Connector: USB "B"
with USB cable	with USB cable	with USB cable
incl. description (Ger/US)	incl. description (Ger/US)	incl. description (Ger/US)
incl. cleaning cartridge	incl. cleaning cartridge	without RDX cartridges
1.6 * 5.25", black bezel	1.6 * 5.25", black bezel	1.6 * 5.25", black bezel
max. 2x per system	max. 2x per system	max. 2x per system

RDX cartridges must be ordered separately
RDX 160GB = S26361-F3857-L160
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600 *
10x RDX160 = S26361-F3857-L169
10x RDX320 = S26361-F3857-L329

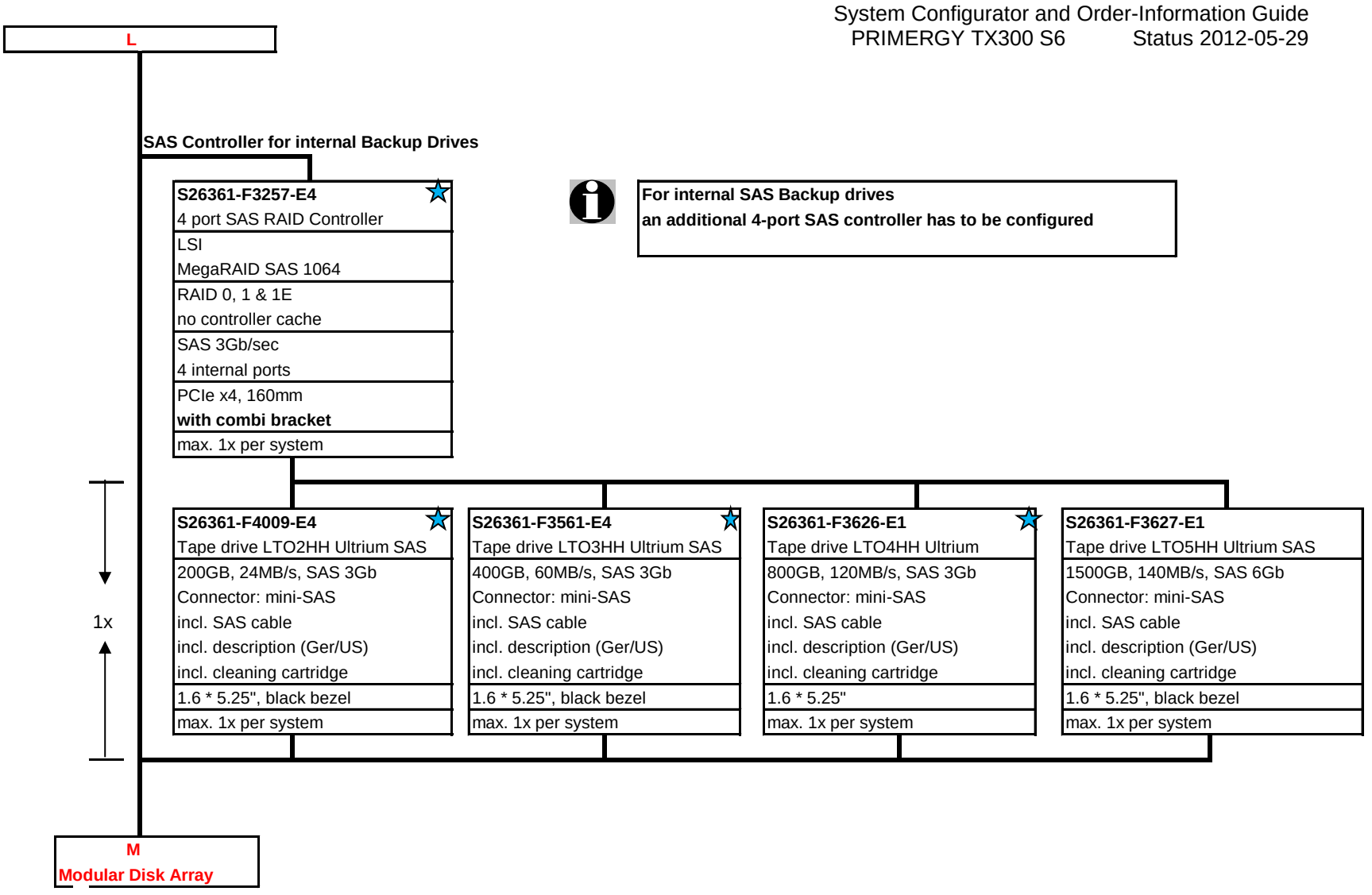
* as soon as available

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

Following USB Components are available	
1) USB DVD SM / Blu-Ray	
External SuperMulti Drive (as soon as released)	S26341-F103-L119
External Blu-Ray Drive (as soon as released)	S26341-F103-L120
2) USB Memorybird:	
MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216

For Keyboard and Mouse options please see section micel.

L


L
SAS Controller for internal Backup Drives
S26361-F3257-E4
4 port SAS RAID Controller
LSI
MegaRAID SAS 1064
RAID 0, 1 & 1E
no controller cache
SAS 3Gb/sec
4 internal ports
PCIe x4, 160mm
with combi bracket
max. 1x per system
For internal SAS Backup drives
an additional 4-port SAS controller has to be configured
1x
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-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
800GB, 120MB/s, SAS 3Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25"
max. 1x per system
S26361-F3627-E1
Tape drive LTO5HH Ultrium SAS
1500GB, 140MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
incl. cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
M
Modular Disk Array

M

Section M-VI Modular Raid 0/1 and Raid5 Controller for 2.5" & 3.5" Hard Disks

For internal 3.5" hard disks one of the following modular RAID-controllers is required

1x

S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1 & 1E
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system

Modular Raid 0/1 controller with IME support for SAS/SATA-HDs
This RAID controller supports 6 HDDs on the 6 internal SAS ports or
8 HD`s with F-D-L-HDD-Box 3 if configured.

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 x8
Low-profile MD2 form factor
max. 1x per system

Modular Raid 5 controller for SAS/SATA-HDs
RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported
These RAID controllers supports 6 HDDs on the 6 internal SAS ports or
8 HD`s with F-D-L-HDD-Box 3 if configured.
Tapes and optical devices (e.g. DVD) are not supported.
Also there is no support of any external storage by this RAID solution.
Additionally two internal 3,5" SAS or SATA HD`s in the F-D-L-HDD-Box 3
are supported by usage of the remaining 2 SAS ports.

S26361-F3257-E170
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller

BBU max. 3x per system possible
for loose delivery please order
S26361-F3257-L110

S26361-F2826-E135
Conversion Option to 2.5" HD Basic Unit
Drive Bay with one backplane for
up to **12x 2.5"** HD slots
max. 1x per system

M1
3.5" HDD's

M2
2.5" HDD Extension

M1

Section M-VII 3.5" SAS / SATA Hard disk drives

In a basic unit with a 6x 3.5" HD backplane,
the remaining 2 SAS ports of the
8-port modular SAS RAID-controllers
can be used for additional two SAS or
SATA HD`s through the configuration of the
3.5" HD SAS / SATA extension F-D-L-HDD-Box 3
which offers extra two bays for SAS or SATA HD`s

Up to 6 or 8 (with F-D-L-HDD-Box 3) 3.5" SAS or SATA hard disks can be configured.
3.5" SAS drives and 3.5" BC SATA drives can be mixed, but not used in one logical RAID volume

6x or 8x
with SAS/SATA
F-D-L-HDD-Box 3

S26361-F3293-E250
HD 250GB 7.2krpm 3.5"
7200rpm,<9.0 ms, 8MB Cache
ECO SATA 3Gb/s
hot plug/hot replace tray
max. 6x (or 8x) per system

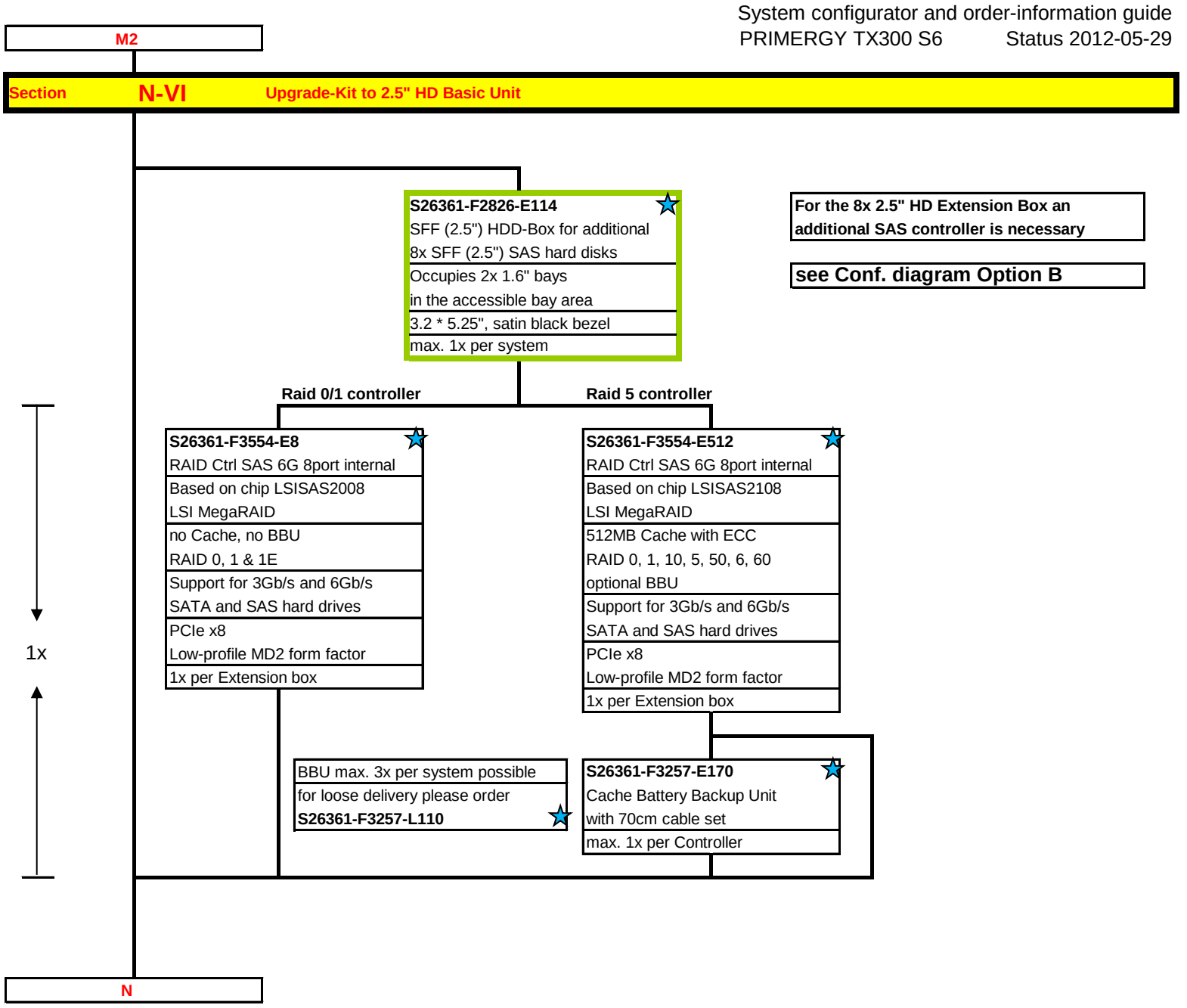
S26361-F3700-E500
HD 500GB 7.2krpm 3.5"
7200rpm,<9.0 ms, 16MB Cache
ECO SATA 6Gb/s
hot plug/hot replace tray
max. 6x (or 8x) per system

SAS 6Gb/s 3.5" with hot plug/hot replace tray	
300GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E530
450GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E545
600GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E560
max. 6x (or 8x) per system	

S26361-F3291-E514
HD 146GB 15krpm 3.5"
15.000rpm,<4ms, 8MB Cache
SAS 3Gb/s
hot plug/hot replace tray
max. 6x (or 8x) per system

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. 6x (or 8x) per system	

M2
2.5" HDD Extension


M2
Section N-VI Upgrade-Kit to 2.5" HD Basic Unit
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
For the 8x 2.5" HD Extension Box an additional SAS controller is necessary
see Conf. diagram Option B
Raid 0/1 controller
Raid 5 controller
S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1 & 1E
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
1x per Extension box
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 x8
Low-profile MD2 form factor
1x per Extension box
1x
BBU max. 3x per system possible
for loose delivery please order
S26361-F3257-L110
S26361-F3257-E170
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller
N

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Section N-VIII 2.5" SAS / SATA Hard disk drives

Up to 12x 2.5" SAS/SATA hard disks can be configured.
Additional 8x 2.5" HD`s with 2.5" HD Extension Box
Mixed configurations with ECO SATA drives and SAS drives are not allowed

12x Base Unit
or
8x Extension Box

SSD SATA 2.5"

S26361-F3298-E32	**S26361-F3298-E64**
SSD 32GB	**SSD 64GB**
SATA 3Gb/s	**SATA 3Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray
max. 8x per system	max. 8x per system

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. 12x (or 20x) 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. 12x (or 20x) per system	

Mix of ECO SATA with SAS HDDs is not possible !

M

SSD SAS 2.5" as soon as available

S26361-F4541-E100	**S26361-F4541-E200**	**S26361-F4541-E400**
SSD SAS 100GB, SLC	SSD SAS 200GB, SLC	SSD SAS 400GB, SLC
Solid State Disk	Solid State Disk	Solid State Disk
SAS 6Gb/s	**SAS 6Gb/s**	**SAS 6Gb/s**
Enterprise Perfomance	Enterprise Perfomance	Enterprise Perfomance
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x (or 20x) per system	max. 12x (or 20x) per system	max. 12x (or 20x) per system

SAS 6Gb/s 2.5" with hot plug/hot replace tray	
300GB 10000rpm,<4,5ms, 8MB Cache	**S26361-F4482-E130** ☆
450GB 10000rpm,<4,5ms, 8MB Cache	**S26361-F4482-E145**
600GB 10000rpm,<4,5ms, 8MB Cache	**S26361-F4482-E160**
900GB 10000rpm,<4,5ms, 8MB Cache	**S26361-F4482-E190**
73GB 15krpm,<4,5ms, 8MB Cache	**S26361-F4482-E573** ☆
146GB 15krpm,<4,5ms, 8MB Cache	**S26361-F4482-E514** ☆
max. 12x (or 20x) per system	

configuration of SAS-HDDs requires SAS RAID controller

O

O

Section IX External SAS Disk Array, SAS backup drives or SCSI peripheral devices

SAS RAID controller for JBOD subsystems

1x

S26361-F3593-E1
RAID Ctrl SAS 6G 8port external
LSI MegaRAID SAS9280-8e
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6 & 60
without iBBU
SAS 6Gb/sec
8 port external
PCIe x4, MD2 form factor
full height bracket
max. 1x per system

S26361-F3257-E170
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller

BBU max. 3x per system possible
for loose delivery please order
S26361-F3257-L110

SAS-controller for external backup drives

3x

S26361-F3271-E1
SAS Controller 3Gb/s 8 port
LSI SAS3442E-R
PCIe x4,
int: 4 port
ext: 4 port
max. 3x 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

SCSI-controller for external drives and peripheral devices

2x

S26361-F3270-E1
SCSI U320 Controller
Adaptec SCSI Card 29320LPE
PCIe x1,
int: LVD HD68
ext: VHDCI 68pin
max. 2x per system

Only released for SX10. All contr. for the connection of external storage systems are delivered without cables. For the configuration of external cabling see configurator

P

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Section X Fibre Channel

Fibre Channel Controller for external storage systems

4x

S26361-F3961-E1
8GBit/s FC Controller
Emulex
LPe1250, full height bracket
1 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 4x per system

S26361-F3961-E2
8GBit/s FC Controller
Emulex
LPe12002, full height bracket
2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 4x per system

No mix of different vendors for FC or FCoE controllers.

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.

S26361-F3631-E1
8GBit/s FC Controller
Qlogic
QLE2560, full height bracket
1 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 4x per system

S26361-F3631-E2
8GBit/s FC Controller
Qlogic
QLE2562, full height bracket
2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 4x per system

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

S26361-F3592-E2
10GBit/s CNA
Emulex
OCe10102
2 channel 10GBit/sec CNA
SFP+ Cage
PCIe x8, 170mm
max. 2 per system

Loose Component: S26361-F3592-L2

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

S26361-F3592-E108
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-F3592-L108
Instead SFP+ Modules, SFP+ twinax cables from the switch vendors may be used

Q

Q

Section XI Communication / Network

Dual Port GBit on-board LAN Controller

Gigabit Ethernet Controller on-board
Dual Port GBit LAN controller
Intel 82575EB (Zoar) *
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.

* Supporting iSCSI boot (also diskless) by system BIOS and native iSCSI initiators

* 2 PCIe-2 slots wired x8 and 5 PCIe-2 slots wired x4:
Slot 7 and 6 are wired x8
Slot 5 is wired x8 if slot 4 is not populated
Slot 3 is wired x8 if slot 2 is not populated
Slot 1 is wired x 4 populated by modular RAID

A PCIe-2 x4 card can also be plugged in a PCIe-2 x8 slot
A PCIe-2 x8 card can also be plugged in a PCIe-2 x4 slot (mechanical x8)
A PCIe-2 x16 card can be plugged in a notched PCIe-2 x8 slot

A) 1-Port Copper PCI-Express Adapter 1000TX

S26361-F3516-E1 (Shelter Island)
Gigabit Ethernet Controller 1000TX LP
Eth Ctrl 1x1Gbit PCI-e Gigabit CT DT Cu LP Intel® Gigabit CT Desktop Adapter
PCIe x1 ext: for RJ45-connector, Cat 5
max. 4x per system

S26361-F3241-E1 (Glyndon)
Gigabit Ethernet Contr. 1000TX
Eth Ctrl 1x1Gbit PCI-e Pro/1000PT Cu Intel PRO/1000 PT Server Adaptor
PCIe x1 ext: for RJ45-connector, Cat 5
max. 4x per system

B) 1-Port MMF PCI-Express Adapter 1000SX

S26361-F3242-E1 (Sheepshead Bay)
Gigabit Ethernet Contr. 1000SX
Eth Ctrl 1x1Gbit PCI-e Pro/1000PF LC Intel PRO/1000 PF Server Adapter
PCIe x4 ext:LC-connector
max. 4x per system

4x

C) 2-Port Copper PCIe Adapter 1000TX

S26361-F3610-E2
Gigabit Ethernet Controller Dual 1000TX
Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu Intel Kawela based 2 port Server Adapter
PCIe x4, ext: for RJ45-plug, Cat 5
max. 4x per system

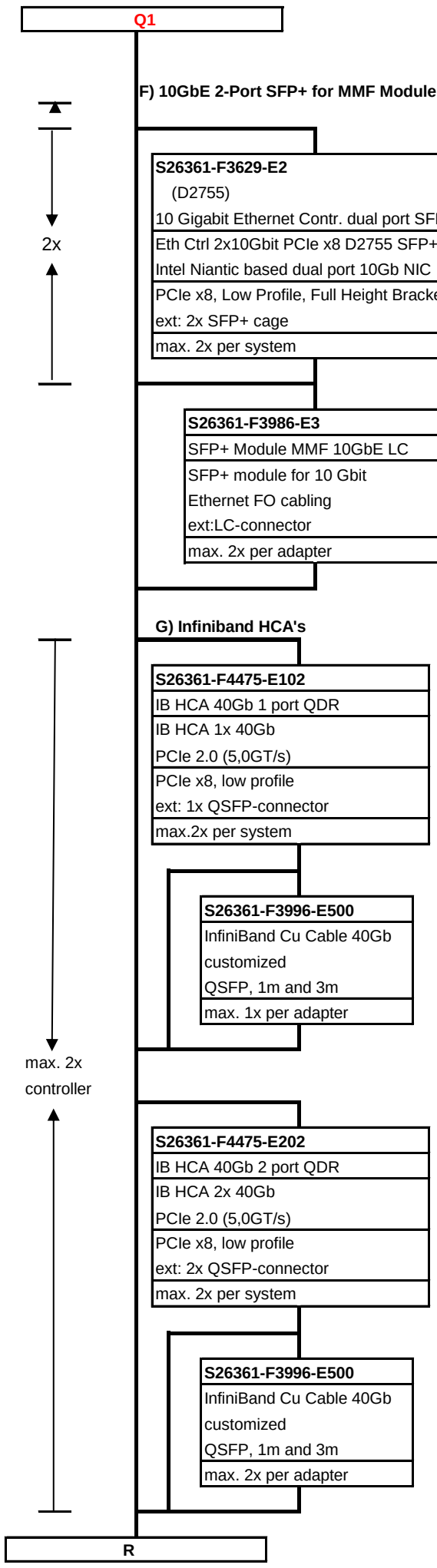
Loose delivery with:
S26361-F3610-L502

D) 4-Port Copper PCIe Adapter 1000TX

S26361-F3611-E1
Gigabit Ethernet Controller Quad 1000TX
Eth Ctrl 4x1Gbit PCIe x4 D2745 Cu Intel Barton Hills based 4 Port Server Ad.
PCIe x4, ext: for RJ45-plug, Cat 5
max. 4x per system

Loose delivery with:
S26361-F3611-L501

Q1



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

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

S26361-F4475-L102
for loose delivery

Low Profile PCIe form factor with exchangeable Full Height (FH) or Low Profile (LP) bracket

If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly

Copper cable are also available for loose delivery as
S26361-F3996-L101, QSFP, 40Gb, 1m
S26361-F3996-L103, QSFP, 40Gb, 3m

S26361-F4475-L202
for loose delivery

Low Profile PCIe form factor with exchangeable Full Height (FH) or Low Profile (LP) bracket

If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly

Copper cable are also available for loose delivery as
S26361-F3996-L101, QSFP, 40Gb, 1m
S26361-F3996-L103, QSFP, 40Gb, 3m

R

Section XII Energy Star

S26361-F3301-E301
TX300 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 are allowed together with TX300 S6 E-Star Fam1:

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**
Always 2x per system (only one CPU is out of Energy Star specification)	

Registered (reg) RDIMMs (1.5V)	
8GB (1333MHz/DR)	**S26361-F3604-E515**
max. 18x per system	
SP 24GB (3x 8GB 1333MHz DR)	**S26361-F3604-E535**
max. 6x per system	
MM 16GB (2x 8GB 1333MHz DR)	**S26361-F3604-E525**
max. 6x per system	

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**
max. 1x per system	

Tape Drives	
Tape drive DDS Gen5 USB 5.25"	**S26361-F3324-E4**
Tape drive DDS Gen6 USB 5.25"	**S26361-F3325-E4**
Tape drive LTO2HH Ultrium SAS	**S26361-F4009-E4**
Tape drive LTO3HH Ultrium SAS	**S26361-F3561-E4**
Tape drive LTO4HH Ultrium SAS	**S26361-F3626-E1**
Tape drive LTO5HH Ultrium SAS	**S26361-F3627-E1**
max. 1x per system	

Hard Disk Drives 2.5" SAS	
HD 300GB 10krpm 2.5"	**S26361-F4482-E130**
HD 73GB 15krpm 2.5"	**S26361-F4482-E573**
HD 146GB 15krpm 2.5"	**S26361-F4482-E514**
max. 20x 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**
max. 8x per system	

4GBit/s Fibre Channel Controller	
Emulex LPe11002	**S26361-F3306-E2**
max. 2x per system	

Gigabit Ethernet Controller	
Gigabit Ethernet Controller Quad 1000TX	**S26361-F3462-E1**
max. 2x per system	

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Section XIII System Management Products (RemoteView)

S26361-F1790-E241 ☆ **iRMC S2 advanced pack** integrated remote management controller activation key for graphical console redirection and remote media redirection max. 1x per system	iRMC S2 (integrated Remote Management Controller) onboard server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller. The Service LAN-port can be switched alternatively on standard Gbit LAN port

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Section XIV 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 TX300 S6 Floorstand

PRIMERGY TX300 S6 Rack

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

2x

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", for Countries without specific cable orderable like e.g. China

Country specific power cords are not required for rack versions, except for USA &Canada. 2 power cords are shipped in a rack version with inlet connector for non-heating apparatus.

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 standard Keyboard KB500		USB professional Keyboard KBPC PX	USB professional Keyboard KBPC PX ECO
S26381-K550-E170	S26381-K500-E170	Switzerland	S26381-K340-E170	S26381-K341-E170
S26381-K550-E104	S26381-K500-E104	Czech/Slovak	S26381-K340-E104	S26381-K341-E104
S26381-K550-E120	S26381-K500-E120	Germany	S26381-K340-E120	S26381-K341-E120
		Germany / Int		S26381-K341-E122
S26381-K550-E180	S26381-K500-E180	Spain	S26381-K340-E180	S26381-K341-E180
S26381-K550-E140	S26381-K500-E140	France	S26381-K340-E140	S26381-K341-E140
S26381-K550-E165	S26381-K500-E165	United Kingdom	S26381-K340-E165	S26381-K341-E165
S26381-K550-E185	S26381-K500-E185	Italy	S26381-K340-E185	S26381-K341-E185
S26381-K550-E154	S26381-K500-E155	Sweden / Finland	S26381-K340-E155	S26381-K341-E154
S26381-K550-E102	S26381-K500-E110	USA / international	S26381-K340-E110	S26381-K341-E110

option for floorstand

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

Attention: 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 TX300 S6

Change Report

Date	Order number	Changes
2012-02-28	S26361-F3301-E120	add CCC Certification
2012-01-30	S26361-F3641-E2	new Blue-ray Triple Writer added
2012-01-25	S26361-F3700-E500	500GB 3.5" ECO-SATA 6G added by Ö. Karakas
2011-12-21	S26361-F4482-E114	SAS HD 6G 144GB - no longer available
2011-11-25	S26361-F4492-E516	New 16GB 2R 1333 memory module on status 35
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
2011-07-29	S26361-F4482-E190	new 6Gb SAS-HD 900GB - as soon as available
2011-06-09	S26361-F3604-E517	32GB QR Module added on special release
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
2011-02-21		Corrected notched slots in configuration diagram
2011-01-19		Data Cartridges removed from DDS & LTO drive description
2011-01-10	S26361-F3648-E160	Westmere-EP Refresh CPUs added
2010-12-16	S26361-F3228-L1	Intel Dual & Quad Port Ethernet Adapter removed
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
2010-09-30	S26361-F3555-E1	10 Gigabit Ethernet Controller - now available
2010-09-30	S26361-F3505-E1	10 Gigabit Ethernet Controller - no longer available
2010-09-30	S26361-F3627-E1	New LTO5 SAS drive - now available
2010-09-13	S26361-F3626-E1	Upgrade - New LTO4 SAS drive
2010-08-26		RDX Cartridges Update
2010-08-23	S26381-K341-E122	Germany / Int Keyboard added
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
2010-07-16		No longer 3.5" HDD SAS Drives because of system architect restrictions
2010-07-05		EPA restrictions implemented
2010-06-23	S26381-K431-E101	Added Mouse M480 grey
2010-05-12	S26381-K341-E1**	Added USB professional Keyboard KBPC PX ECO (available from July 2010)
2010-05-04		SAS RAID Controller descriptions updated
2010-03-22		Added USB Standard Keyboard KB400
2010-03-01		First Release