FUJITSU

PRIMERGY TX300 S7
PRIMERGY RX350 S7

System configurator and order-information guide

February 2014

Contents

PRIMERGY Server

Instructions

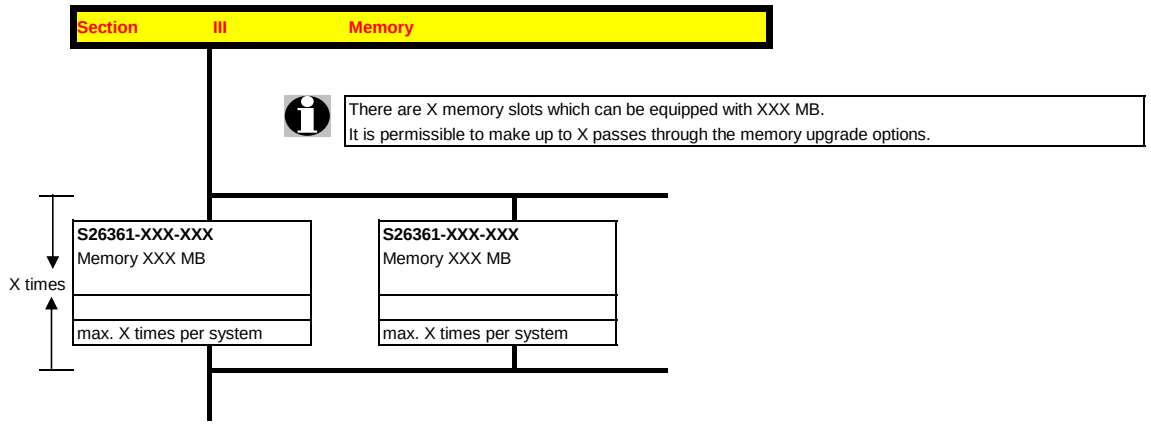
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

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

System unit (3.5" HDDs)

SIDE VIEW

Hot plug power supplies

1. PSU | 2. PSU | 3. PSU | 4. PSU

Memories

Memory CPU1
(Channel A + B + C + D)
Bank I (4 Modules)
Bank II (4 Modules)
Bank III (4 Modules)

Memory CPU2
(Channel E + F + G + H)
Bank I (4 Modules)
Bank II (4 Modules)
Bank III (4 Modules)

Memory (III)

CPUs

Xeon 4C, 6C or 8C
CPU incl. Heatpipe

Xeon 4C, 6C or 8C
CPU incl. Heatpipe

Processor (II)
Xeon 4C, 6C or 8C
CPU with serial QPI
Interface and
4 memory channels

PCI Slots

PCIe Slots @ CPU 2

Slot 9 PCIe-3 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

Slot 8 PCIe-3 x16, 252mm @ CPU2
Can be double width slot for GPGPU card!

Slot 7 PCIe-3 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

Slot 6 PCIe-3 x16, 252mm @ CPU2
Can be double width slot for GPGPU card!

Slot 5 PCIe-2 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

PCIe Slots @ CPU 1

Slot 4 PCIe-3 x8, max. 180mm @ CPU1
Possibility to install PCIe x16 cards

Slot 3 PCIe-3 x8, max. 180mm @ CPU1

Slot 2 PCIe-3 x8, max. 180mm @ CPU1

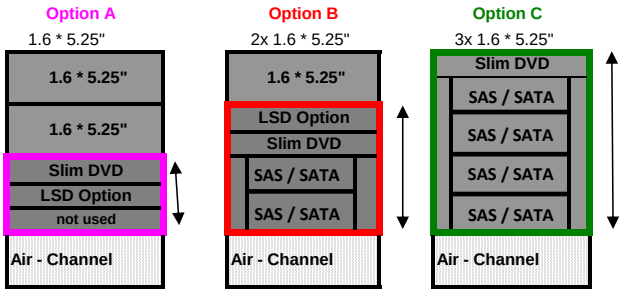
Slot 1 PCIe-3 x8, max. 170mm @ CPU1
Reserved for modular LAN-Controller

Slot 10 PCIe-3 x8, max. 170mm @ CPU1
Internal - reserved for modular RAID-Controller

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 B or
0 x HH 5.25" free + Option C



Accessible drives (V)

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

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

MtK DVD(sl) + 4x SAS/SATA LFF HDD: (Option C)
- support for 4x 3.5" SAS/SATA HDD hot plug
  + support for SL (0.5") DVD Drive

4x 92 mm Fans (no redundancy)
Fan 4
Fan 3
Fan 2
Fan 1

2x 92 mm Fans (optional for redundancy)
Fan 6
Fan 5

2x internal USB
1x USSD
1x USB Port

Hard disk drives (VI)
3.5" SAS/SATA
Option D

4-port SAS backplane
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA
1 * 3.5" SAS / SATA

4-port SAS backplane
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**, one **memory** per CPU and one **PSU** has to be selected for an orderable basic unit.

Configuration diagram PRIMERGY

System unit (2.5" HDDs)

SIDE VIEW

Hot plug power supplies

1. PSU | 2. PSU | 3. PSU | 4. PSU

Memories

Memory CPU1
(Channel A + B + C)
Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Memory CPU2
(Channel D + E + F)
Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Memory (III)

CPUs

Xeon 4C, 6C or 8C
CPU incl. Heatpipe

Xeon 4C, 6C or 8C
CPU incl. Heatpipe

Processor (II)
Xeon 4C, 6C or 8C
CPU with serial QPI
Interface and
4 memory channels

PCI Slots

PCIe Slots @ CPU 2

Slot 9 PCIe-3 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

Slot 8 PCIe-3 x16, 252mm @ CPU2
Can be double width slot for GPGPU card!

Slot 7 PCIe-3 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

Slot 6 PCIe-3 x16, 252mm @ CPU2
Can be double width slot for GPGPU card!

Slot 5 PCIe-2 x4, 252mm @ CPU2
Possibility to install PCIe x8 cards

PCIe Slots @ CPU 1

Slot 4 PCIe-3 x8, max. 180mm @ CPU1
Possibility to install PCIe x16 cards

Slot 3 PCIe-3 x8, max. 180mm @ CPU1

Slot 2 PCIe-3 x8, max. 180mm @ CPU1

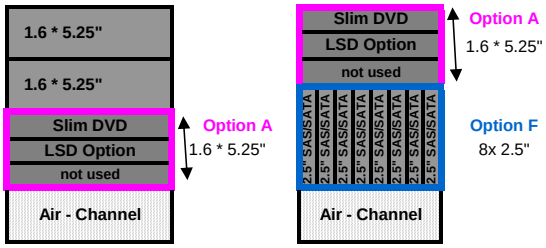
Slot 1 PCIe-3 x8, max. 170mm @ CPU1
Reserved for modular LAN-Controller

Slot 10 PCIe-3 x8, max. 170mm @ CPU1
Internal - reserved for modular RAID-Controller

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 F or
0 x HH 5.25" free + Option A + Option F
#



Accessible drives (V)

Mounting Kit DVD(sl) + LSD: (Option A)
- support for SL (0.5") DVD Drive + LSD
- occupies one 5.25" bay

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

Fan 4
Fan 3
Fan 2
Fan 1
4x 92 mm Fans (no redundancy)
Fan 6
Fan 5
2x 92 mm Fans (optional for redundancy)

internal USB or USSD

Hard disk drives (VI)

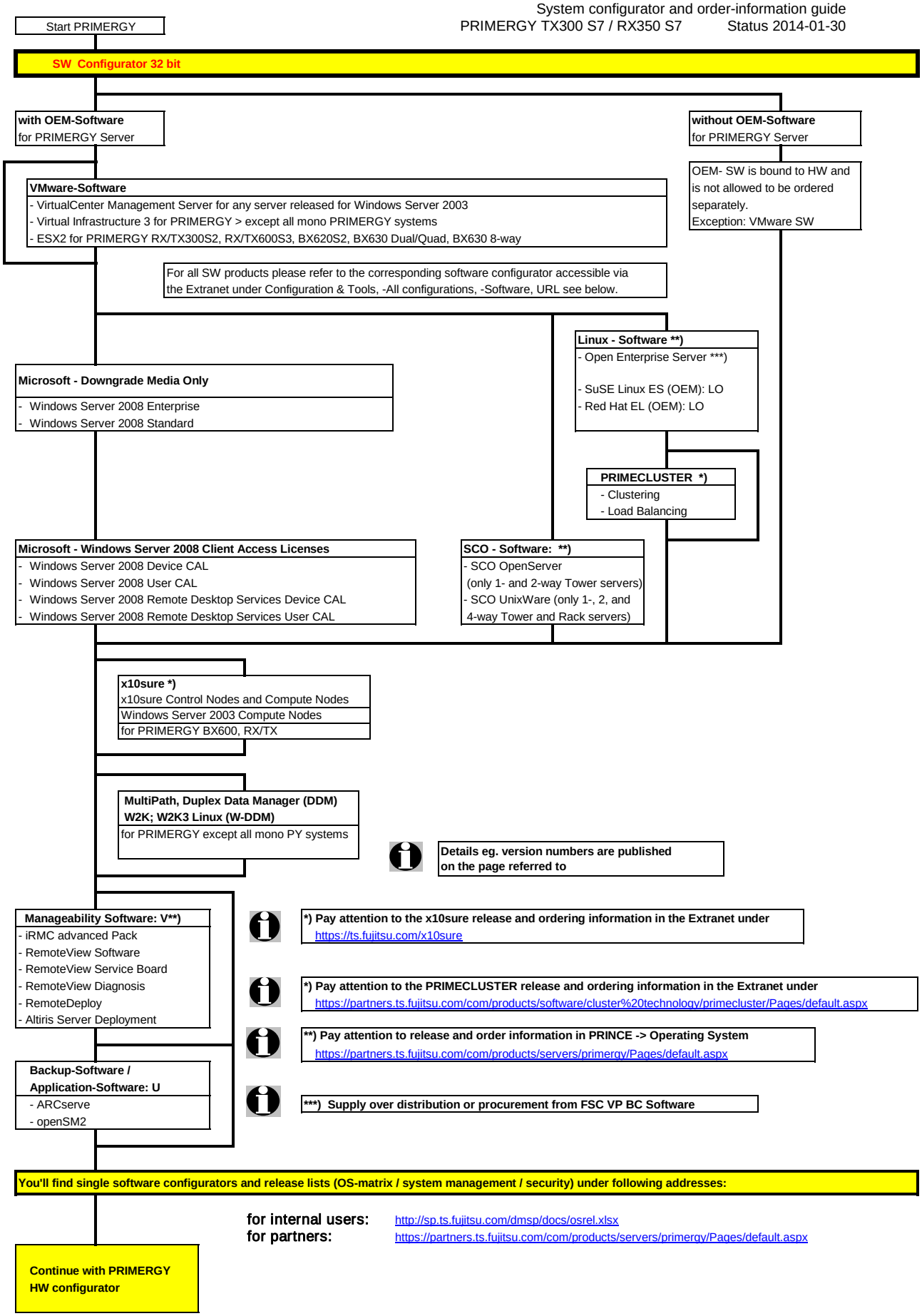
2.5" SAS/SATA

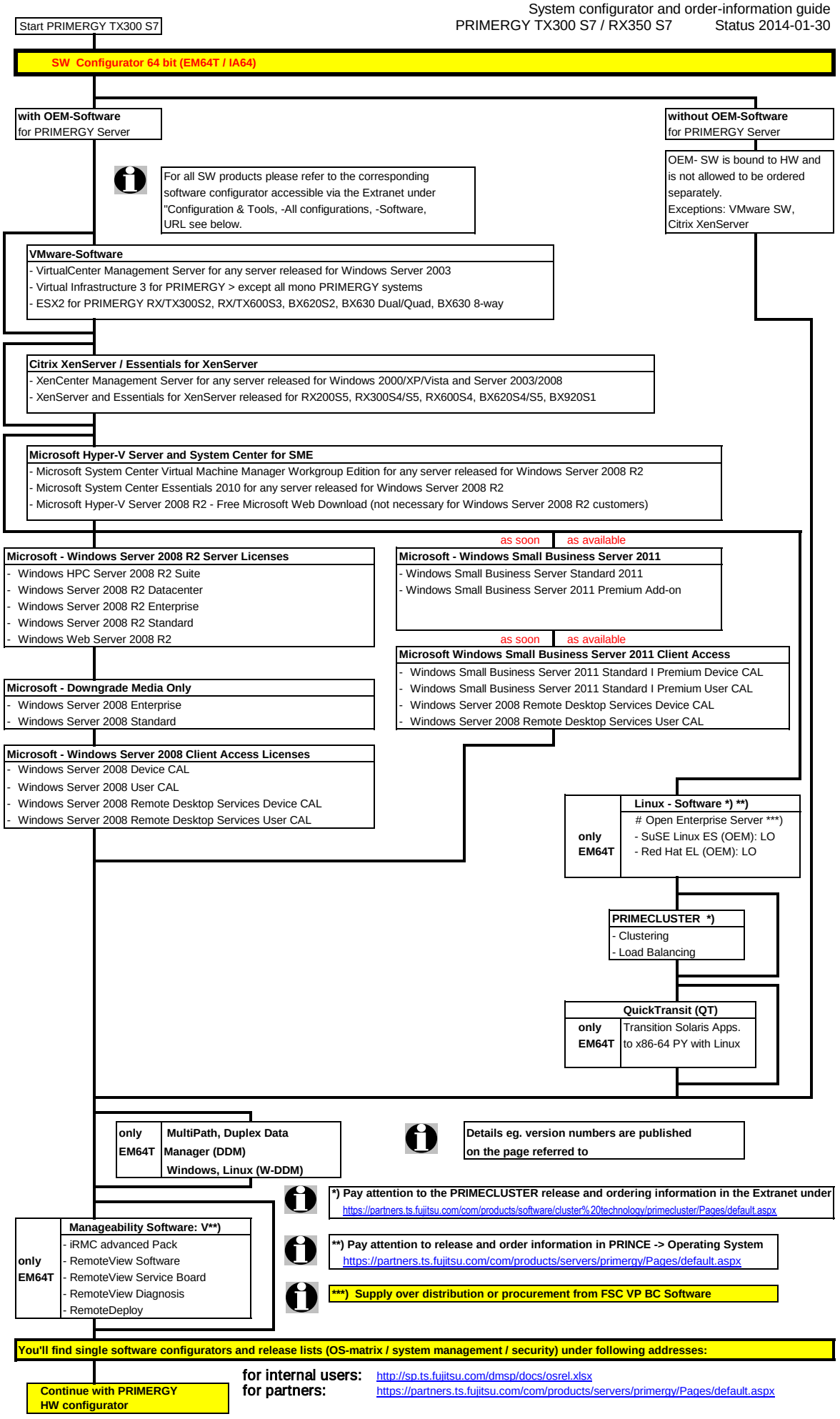
Option E
Optional 8-port SAS backplane
1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA

1x 8-port SAS backplane
1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA | 1 * 2.5" SAS / SATA

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

One **CPU**, one **memory** per CPU and one **PSU** has to be selected for an orderable basic unit.


Start PRIMERGY
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 - Downgrade Media Only
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
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
*) 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
Backup-Software / Application-Software: U
- ARCserve
- openSM2
***) 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 S7
SW Configurator 64 bit (EM64T / IA64)
with OEM-Software for PRIMERGY Server
without OEM-Software for PRIMERGY Server
For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.
OEM- SW is bound to HW and is not allowed to be ordered separately. Exceptions: VMware SW, Citrix XenServer
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 for SME
- Microsoft System Center Virtual Machine Manager Workgroup Edition for any server released for Windows Server 2008 R2
- Microsoft System Center Essentials 2010 for any server released for Windows Server 2008 R2
- Microsoft Hyper-V Server 2008 R2 - Free Microsoft Web Download (not necessary for Windows Server 2008 R2 customers)
Microsoft - Windows Server 2008 R2 Server Licenses
- Windows HPC Server 2008 R2 Suite
- Windows Server 2008 R2 Datacenter
- Windows Server 2008 R2 Enterprise
- Windows Server 2008 R2 Standard
- Windows Web Server 2008 R2
as soon
as available
Microsoft - Windows Small Business Server 2011
- Windows Small Business Server Standard 2011
- Windows Small Business Server 2011 Premium Add-on
as soon
as available
Microsoft Windows Small Business Server 2011 Client Access
- Windows Small Business Server 2011 Standard I Premium Device CAL
- Windows Small Business Server 2011 Standard I Premium User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL
Microsoft - Downgrade Media Only
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
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
*) 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
only EM64T
Manageability Software: V**)
- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy
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 S7

Section | Basic units

SAS - System unit, Rack and Floorstand including:

* By a key lockable front bezel in floorstand version
* Basic units with:
  - 4 Hot-Plug Power Supply Slots
  - 4 Standard Fans (92mm; no redundancy)
  - 12 memory DIMMs per CPU (max 384GB) => Total 24 DIMMs (max 768GB) for two CPU`s
  - SAS/ SATA backplane with hot plug bays for 4x 3.5" HDD`s or 8x 2.5" HDD's & SSD's
* 3 drive bays 5,25" for accessible drives free available.
* Integrated ServerView Diagnostics Technology with an modul for indication of failed components 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.

Options:

* Up to 4 hot plug power supply modules with 450W & 800W
* 4x 3.5" or 8x 2.5" HD backplane kits
* - 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

Systemboard D2649 with:

* Up to two Xeon 4C, 6C & 8C CPU`s (Socket-R)
  with 2 serial QPI links (Quick Path Interconnect) and four memory channels per CPU
  First CPU has to be selected for an orderable basic unit,
* Chipset Intel® C600 Series (codenamed Patsburg)

* 10 PCI slots:

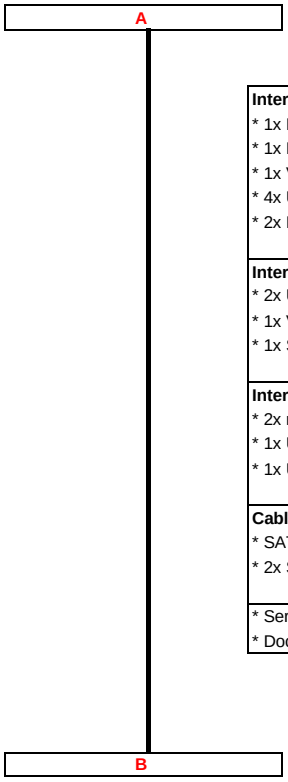
@ first CPU	- 4x PCIe-3 x8 (one notched to install x16 cards)
@ first CPU	- 1x PCIe-3 x8 (for internal modular RAID controller only)
@ second CPU	- 2x PCIe-3 x16
@ second CPU	- 2x PCIe-3 x4
@ second CPU	- 1x PCIe-2 x4

* 24 memory slots for max. 768GB RAM DDR3 available
  - Memory is divided into 12 DIMMs per CPU (4 channels with 3 slots per channel)
    Possible max. configurations are:
    24x 32GB LRDIMM (quad rank modules) = 768GB
    24x 16GB RDIMM (dual rank modules) = 384GB
    16x 8GB UDIMM (dual rank modules) = 128GB
    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
  - Rank sparing mode is supported with min. 2x 1R/2R or 1x 4R modules for RDIMM or LRDIMM
  - SDDC (Chipkill) is supported for memory modules,

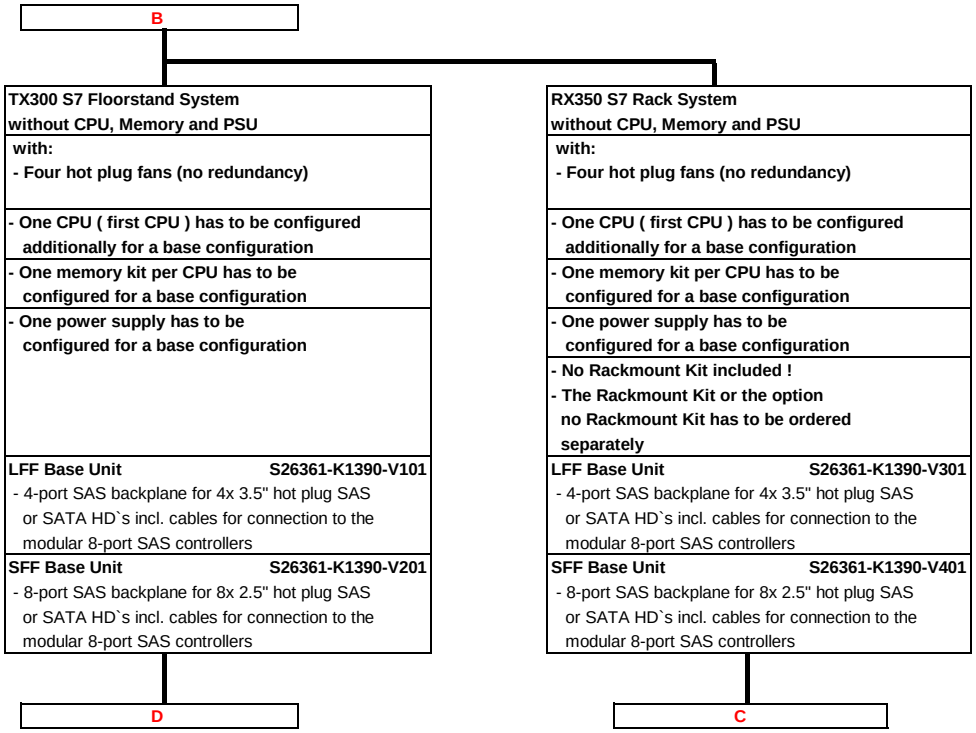
* Dual Port 10/100/1000 x4 PCI Express* Gigabit Ethernet Intel LAN controller Powerville on-board
* iRMC S3 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100/1000 Service LAN-port and integrated graphics controller.
  The Service LAN-port can be switched alternatively on standard Gbit LAN port 1

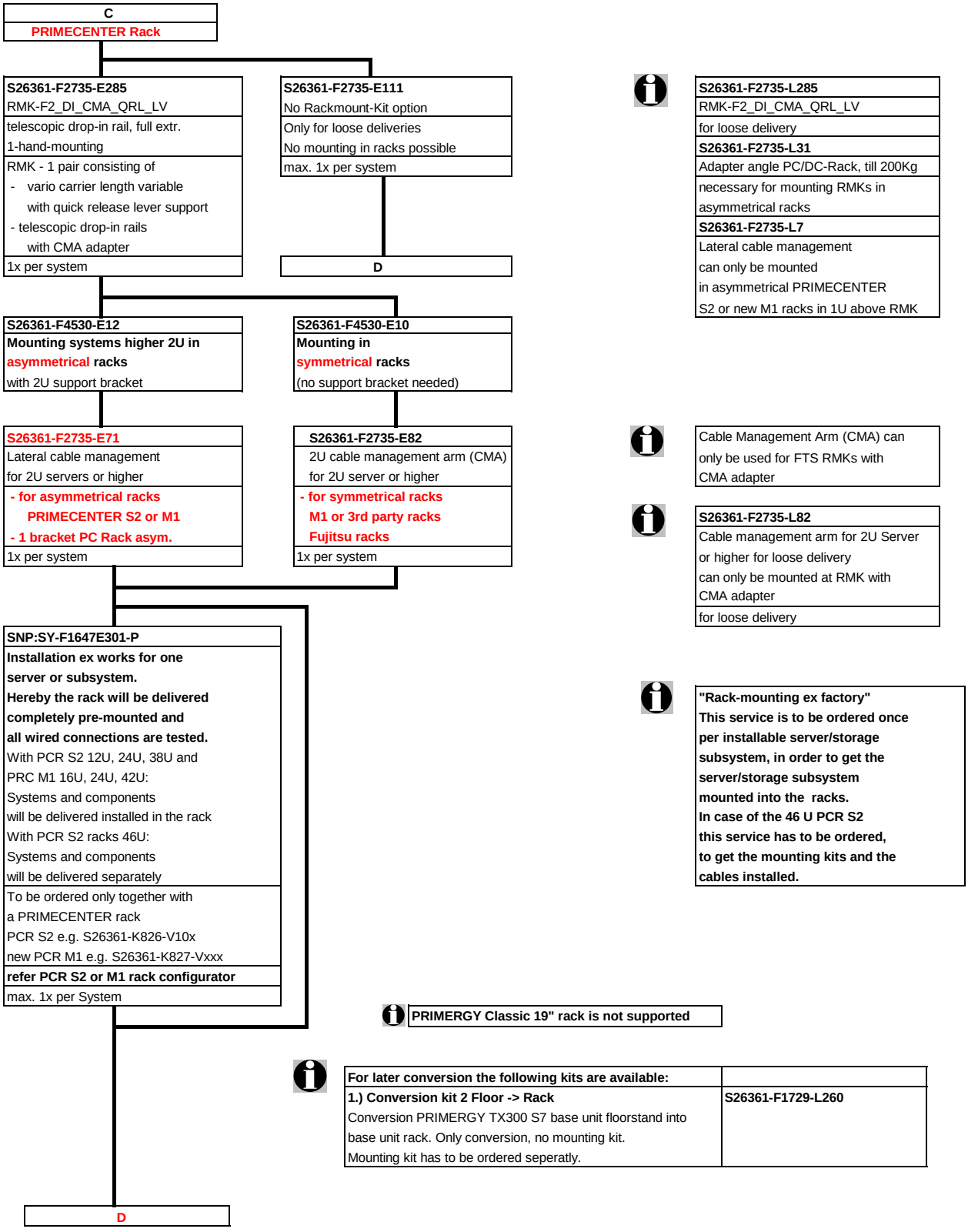
* Graphics Controller integrated in iRMC S3 (integrated Remote Management Controller):
  Supported graphical resolutions are:
  1920x1200x16bpp, 1920x1080x16bpp, 1600x1200x16bpp, 1680x1050x16bpp, 1440x900x16bpp, 1280x1024x32bpp, 1152x864x16bpp, 1024x768x32bpp, 800x600x32bpp, 640x480x32bpp

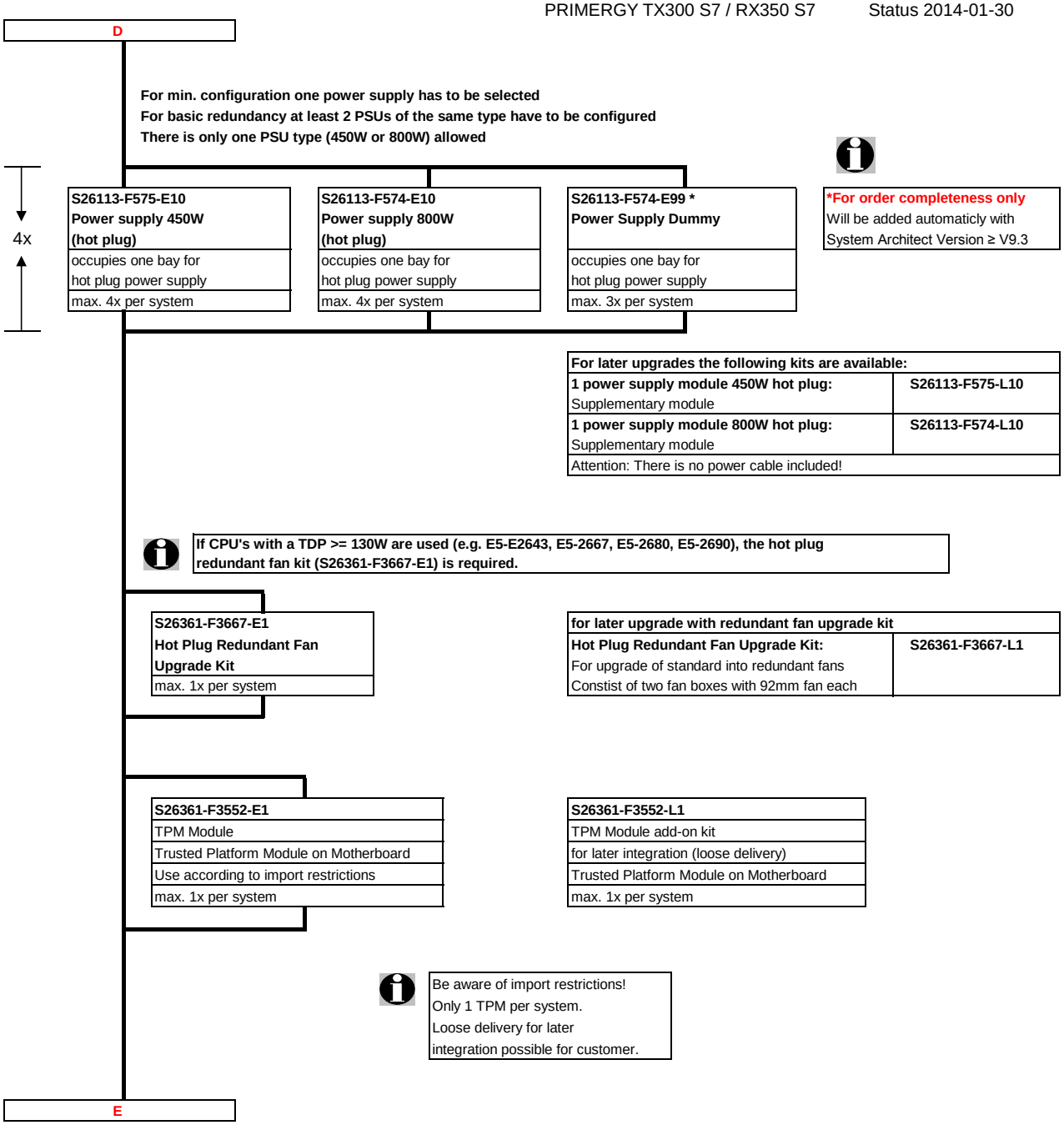
A



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: * 2x USB **2.0** (UHCI) with **480MBit/s,** no USB wakeup * 1x VGA (15 pins) as an option * 1x Service-LAN RJ45 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 * 1x USSD
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
TX300 S7 Floorstand System
without CPU, Memory and PSU
with:
- Four hot plug fans (no redundancy)
- 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
- One power supply has to be configured for a base configuration
LFF Base Unit S26361-K1390-V101
- 4-port SAS backplane for 4x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
SFF Base Unit S26361-K1390-V201
- 8-port SAS backplane for 8x 2.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
D
RX350 S7 Rack System
without CPU, Memory and PSU
with:
- Four hot plug fans (no redundancy)
- 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
- One power supply 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
LFF Base Unit S26361-K1390-V301
- 4-port SAS backplane for 4x 3.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
SFF Base Unit S26361-K1390-V401
- 8-port SAS backplane for 8x 2.5" hot plug SAS or SATA HD`s incl. cables for connection to the modular 8-port SAS controllers
C


C
PRIMECENTER Rack
S26361-F2735-E285
RMK-F2_DI_CMA_QRL_LV
telescopic drop-in rail, full extr.
1-hand-mounting
RMK - 1 pair consisting of
- vario carrier length variable
with quick release lever support
- telescopic drop-in rails
with CMA adapter
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-L285
RMK-F2_DI_CMA_QRL_LV
for loose delivery
S26361-F2735-L31
Adapter angle PC/DC-Rack, till 200Kg
necessary for mounting RMKs in
asymmetrical racks
S26361-F2735-L7
Lateral cable management
can only be mounted
in asymmetrical PRIMECENTER
S2 or new M1 racks in 1U above RMK
S26361-F4530-E12
Mounting systems higher 2U in
asymmetrical racks
with 2U support bracket
S26361-F4530-E10
Mounting in
symmetrical racks
(no support bracket needed)
S26361-F2735-E71
Lateral cable management
for 2U servers or higher
- for asymmetrical racks
PRIMECENTER S2 or M1
- 1 bracket PC Rack asym.
1x per system
S26361-F2735-E82
2U cable management arm (CMA)
for 2U server or higher
- for symmetrical racks
M1 or 3rd party racks
Fujitsu racks
1x per system
Cable Management Arm (CMA) can
only be used for FTS RMKs with
CMA adapter
S26361-F2735-L82
Cable management arm for 2U Server
or higher for loose delivery
can only be mounted at RMK with
CMA adapter
for loose delivery
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 PCR S2 12U, 24U, 38U and
PRC M1 16U, 24U, 42U:
Systems and components
will be delivered installed in the rack
With PCR S2 racks 46U:
Systems and components
will be delivered separately
To be ordered only together with
a PRIMECENTER rack
PCR S2 e.g. S26361-K826-V10x
new PCR M1 e.g. S26361-K827-Vxxx
refer PCR S2 or M1 rack configurator
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 racks.
In case of the 46 U PCR S2
this service has to be ordered,
to get the mounting kits and the
cables installed.
PRIMERGY Classic 19" rack is not supported
For later conversion the following kits are available:
1.) Conversion kit 2 Floor -> Rack
Conversion PRIMERGY TX300 S7 base unit floorstand into
base unit rack. Only conversion, no mounting kit.
Mounting kit has to be ordered seperatly.
S26361-F1729-L260
D


D
For min. configuration one power supply has to be selected
For basic redundancy at least 2 PSUs of the same type have to be configured
There is only one PSU type (450W or 800W) allowed
4x
S26113-F575-E10
Power supply 450W
(hot plug)
occupies one bay for
hot plug power supply
max. 4x per system
S26113-F574-E10
Power supply 800W
(hot plug)
occupies one bay for
hot plug power supply
max. 4x per system
S26113-F574-E99 *
Power Supply Dummy
occupies one bay for
hot plug power supply
max. 3x per system
*For order completeness only
Will be added automaticly with
System Architect Version ≥ V9.3
For later upgrades the following kits are available:
1 power supply module 450W hot plug:
Supplementary module
S26113-F575-L10
1 power supply module 800W hot plug:
Supplementary module
S26113-F574-L10
Attention: There is no power cable included!
If CPU's with a TDP >= 130W are used (e.g. E5-E2643, E5-2667, E5-2680, E5-2690), the hot plug redundant fan kit (S26361-F3667-E1) is required.
S26361-F3667-E1
Hot Plug Redundant Fan
Upgrade Kit
max. 1x per system
for later upgrade with redundant fan upgrade kit
Hot Plug Redundant Fan Upgrade Kit:
For upgrade of standard into redundant fans
Constist of two fan boxes with 92mm fan each
S26361-F3667-L1
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
Be aware of import restrictions!
Only 1 TPM per system.
Loose delivery for later
integration possible for customer.
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 type are not possible
If CPU's with a TDP >= 130W are used (e.g. E5-E2643, E5-2667, E5-2680, E5-2690), the hot plug redundant fan kit (S26361-F3667-E1) is required.
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		
Basic 4C CPU's - 1x 64-bit Intel Xeon (10MB Smart Cache) 1066 MHz DDR3 Bus; 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5-2603 4C/4T 1.80GHz 10MB 6.40GT/s 1066MHz 80W	**S26361-F3685-E180**	
Xeon E5-2609 4C/4T 2.40GHz 10MB 6.40GT/s 1066MHz 80W	**S26361-F3685-E240**	
Standard Turbo 6C CPU's - 1x 64-bit Intel Xeon (15MB Smart Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus; 7,20 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5-2620 6C/12T 2.00GHz 15MB 7.20GT/s 1333MHz 95W	**S26361-F3676-E200**	
Xeon E5-2630 6C/12T 2.30GHz 15MB 7.20GT/s 1333MHz 95W	**S26361-F3676-E230**	
Xeon E5-2640 6C/12T 2.50GHz 15MB 7.20GT/s 1333MHz 95W	**S26361-F3676-E250**	
Advanced Turbo+ 8C CPU`s - 1x 64-bit Intel Xeon (20MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5-2650 8C/16T 2.00GHz 20MB 8.00GT/s 1600MHz 95W	**S26361-F3686-E200**	
Xeon E5-2660 8C/16T 2.20GHz 20MB 8.00GT/s 1600MHz 95W	**S26361-F3686-E220**	
Xeon E5-2665 8C/16T 2.40GHz 20MB 8.00GT/s 1600MHz 115W	**S26361-F3686-E240**	On special release only
Xeon E5-2670 8C/16T 2.60GHz 20MB 8.00GT/s 1600MHz 115W	**S26361-F3686-E260**	
Xeon E5-2680 8C/16T 2.70GHz 20MB 8.00GT/s 1600MHz 130W	**S26361-F3686-E270**	
Xeon E5-2690 8C/16T 2.90GHz 20MB 8.00GT/s 1600MHz 135W	**S26361-F3686-E290**	
Frequency Optimized Turbo 2C, 4C & 6C CPU`s - 1x 64-bit Intel Xeon (5/10/15MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 6,40/7,20 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5-2637 2C/4T 3.00GHz 5MB 6.40GT/s 1600MHz 80W	**S26361-F3687-E300**	
Xeon E5-2643 4C/8T 3.3GHz 10MB 6.40GT/s 1600MHz 130W	**S26361-F3687-E330**	
Xeon E5-2667 6C/12T 2.90GHz 15MB 7.20GT/s 1600MHz 130W	**S26361-F3687-E290**	
Low Power 4C/6C/8C CPU's - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 1333/1600 MHz DDR3 Bus; 7,20/8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU		
Xeon E5-2630L 6C/12T 2.00GHz 15MB 7.20GT/s 1333MHz 60W	**S26361-F3688-E200**	
Xeon E5-2650L 8C/16T 1.80GHz 20MB 8.00GT/s 1600MHz 70W	**S26361-F3688-E180**	

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 12 memory slots per CPU for max.
384GB LRDIMM (12x 32GB 4R)
192GB RDIMM (12x 16GB 2R)
32GB UDIMM (8x 4GB)
=> max. 768GB for two CPU`s (384GB per CPU), using LRDIMM
- The memory area is divided into 4 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, slot 3 belongs to memory bank 3

Registered, LR DIMMs and unbuffered memory modules can be selected
No mix of registered, load reduced and unbuffered modules allowed.
Memory can be operated at 1.5V or 1.35V, even if the modules are of low voltage type.
Memory operating voltage can be set within BIOS (**1.5V is default** setting for max. speed).
In a 2 DIMMs per channel configuration, following frequencies are supported:
- 1.5V - 1600MHz max (depending on CPU, special memory modules)
- 1.35V - 1333MHz max (depending on CPU)
In a 3 DIMMs per channel configuration, memory will operate at 1.5V only.
SDDC (Chipkill) is supported for registered / load redueced x4 organized memory modules only

1.) In the "Independent Channel Mode" is following configuration possible
Channels can be populated in any order in Independent Channel Mode. All four channels may be populated in any order and have no matching requirements. All channels must run at the same interface frequency but individual channels may run at different DIMM timings (RAS latency, CAS latency, and so forth)
No mix of registered, load reduced and unbuffered modules allowed.

2.) "Rank Sparing Mode" configuration
- Within a memory channel, one rank is a spare of the other ranks.
The Spare Rank is held in reserve and is not available as system memory
For the effective memory capacity, please refer to the spreadsheet below.
The BIOS is set to the rank sparing setting.
Minimum configuration is: 2x 1R, 2x 2R or 1x4R DDR3 module per channel
This mode is not supported by unbuffered memory modules

3.) "Performance Mode" configuration
- In this configuration, the memory module population ex factory is spread across all channels.
The BIOS is set to the max. performance for memory.
Minimum configuration is: 4x identical modules

4.) In the "Mirrored Channel Mode" is following configuration possible
- Each memory bank can optionally be equipped with 4x registered or load reduced or unbuffered DDR3 modules
In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.
In channel B / D is always the mirrored memory of channel A / B of CPU 1
In channel F / H is always the mirrored memory of channel E / G of CPU 2
Minimum configuration is: 4x identical modules
This mode is not supported by unbuffered memory modules

F1

F1

1x per CPU

S26361-F3694-E10 Independent Mode
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined
Requires min 1 memory Module per CPU

S26361-F3694-E1 Rank Sparing Mode Installation
BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel. Spare Rank is not shown in System Memory.
For effective capacity within a channel, please have a look below.
Supported for RDIMM / LRDIMM only.
Requires min 2x 1R/2R or 1x 4R modules per CPU

S26361-F3694-E2 Performance Mode Installation
BIOS Setup factory preinstalled for max. Performance, LV memory might be set to 1.5V operation. Four identical memory modules will be equipped in one memory bank to achieve highest memory performance. All four modules are active and full capacity can be used.
Multiple of 4 identical modules to be configured per CPU

S26361-F3694-E3 Mirrored Channel Mode Installation
BIOS Setup factory preinstalled to this mode. Four identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only two modules contain active data, the remain two modules contain mirrored data
Supported for RDIMM / LRDIMM only.
Multiple of 4 identical modules to be configured per CPU

Effective Memory capacity / Rank Sparing Mode, 1 Channel populated

	UDIMM		RDIMM			LRDIMM	
	2GB 1R	2GB 2R	4GB 1R	8GB 2R	16GB 2R	16GB 4R	32GB 4R
1DPC	na	na	na	na	na	12GB	24GB
2DPC	na	na	4GB	12GB	24GB	28GB	56GB
3DPC	na	na	8GB	20GB	40GB	40GB	80GB

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

8/12x per CPU, max. 2/3 modules per channel

Unbuffered Memory (UDIMM) no SDDC (chipkill) support
- one DDR3 unbuffered ECC mem. Module, 1.35V
Choose up to 8 order codes per CPU

2GB (1x2GB) 1Rx8 L DDR3-1600 U ECC	S26361-F3694-E513
4GB (1x4GB) 2Rx8 L DDR3-1600 U ECC	S26361-F3694-E514

Registered Memory (RDIMM) no SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.35V
No mix with any other types of memory modules possible
Choose up to 12x for 1R/2R or 8x for 4R per CPU
For performance reasons, we do not recommend to configure more than 8 DIMMs per CPU

4GB (1x4GB) 2Rx8 L DDR3-1600 R ECC	S26361-F3695-E514

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.35V
1333MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU

4GB (1x4GB) 1Rx4 L DDR3-1333 R ECC	S26361-F3696-E514	new due to supply
8GB (1x8GB) 2Rx4 L DDR3-1333 R ECC	S26361-F3696-E515	new due to supply

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.35V
1600MHz supported with up to 2DPC (8 modules/CPU)
at 1.5V
Choose up to 12 order codes per CPU

4GB (1x4GB) 1Rx4 L DDR3-1600 R ECC	S26361-F3697-E514
8GB (1x8GB) 2Rx4 L DDR3-1600 R ECC	S26361-F3697-E515
16GB (1x16GB) 2Rx4 L DDR3-1600 R ECC	S26361-F3697-E516

Load Reduced Memory (LRDIMM) with SDDC (chipkill) support
- one DDR3 load reduced ECC mem. Module, 1.35V
Choose up to 12 order codes per CPU

16GB (1x16GB) 4Rx4 L DDR3-1333 LR ECC	S26361-F3698-E516	as soon as available
32GB (1x32GB) 4Rx4 L DDR3-1333 LR ECC	S26361-F3698-E517	as soon as available

Note 1.)
Max. DDR3 memory speed depends on the memory configuration (No of mem modules per channe) as well as on the CPU type.
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.
For real memory speed (depending on memory type / population), please check the spreadsheet "Memory speed" below

Mix of memory modules is only possible within the same group

G

Memory Configuration PRIMERGY TX300 S7 / RX350 S7

Each CPU offers 12 **Slots** for DDR3 Memory Modules organised in **3 Banks and 4 Channels.**
If you need more than 12 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 3 different kinds of DDR3 Memory Modules available: UDIMM / RDIMM and LRDIMM
UDIMM / RDIMM / LRDIMM offer different functionality. Mix of UDIMM / RDIMM / LRDIMM is not alloved.

If 1.5V and 1.35V DIMMs are mixed, the DIMMs will run at 1.5V

Mode	Configuration	UDIMM	RDIMM	RDIMM LRDIMM	Application
		x8	x8	x4	
SDDC (chipkill) support	any	no	no	yes	detect multi-bit errors
Independant Channel Mode	1, 2 or 3 Modules per Bank	yes	yes	yes	offers max. flexibility, upgradeability, capacity use UDIMM modules for lowest cost
Mirrored Channel Mode *)	4 identical Modules / Bank	no	no	yes	offers maximum security
Performance Mode	4 identical Modules / Bank	yes	yes	yes	offers maximum performance and capacity
Rank Sparing Mode *)	min. 2 Ranks / Channel	no	no	yes	balances security and capacity

*) For the delivery ex works the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	UDIMM	RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU	1x2GB	1x4GB	1x 16GB	with one CPU
Max. Memory per CPU	8/12 Modules / CPU	8x4GB	12x16GB	12x 32GB	with one CPU
Max. Memory per System	16/24 Modules / System	64GB	384GB	768GB	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
The memory channel with the lowest speed defines the speed of all CPU channels in the system

Mem. Speed provided by CPU	Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS)																	
	UDIMM 1600MHz						RDIMM 1600MHz						LRDIMM 1333MHz					
Voltage setting (BIOS)	1.5V [default]			1.35V			1.5V [default]			1.35V			1.5V [default]			1.35V		
	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC
CPU with 1600MHz DDR3 Bus	1333 1600	1333	- -	1066 1333	1066	- -	1600	1600	1066	1333	1333	- -	1333	1333	1066	1066	1066	- -
CPU with 1333MHz DDR3 Bus	1333	1333	-	1066	1066	-	1333	1333	1066	1333	1333	-	1333	1333	1066	1066	1066	-
CPU with 1066MHz DDR3 Bus	1066	1066	-	1066	1066	-	1066	1066	1066	1066	1066	-	1066	1066	1066	1066	1066	-

on special release
as soon as available

1R - Single Rank
2R - Dual Rank
4R - Quad Rank

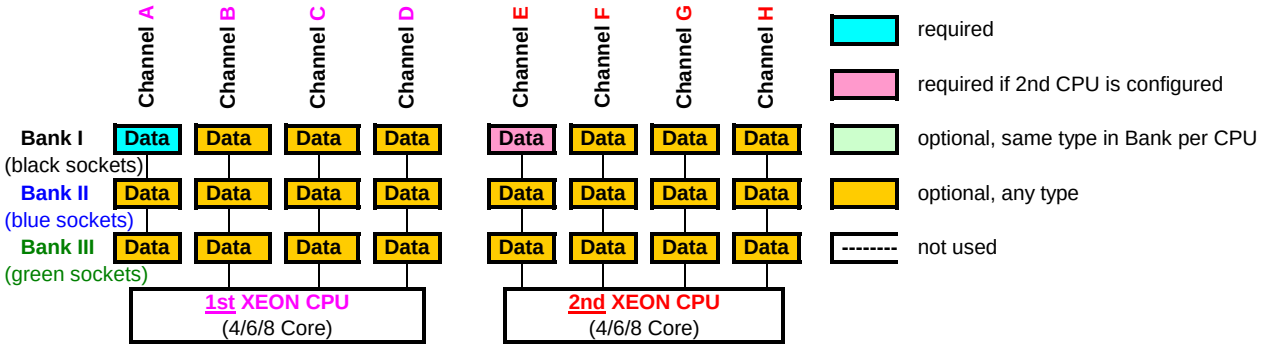
1DPC = 1 DIMM per Channel
2DPC = 2 DIMM per Channel
3DPC = 3 DIMM per Channel

Configuration hints:

- The memory sockets on the systemboard offer a color coding:
  Bank I black sockets
  Bank II blue sockets
  Bank III green sockets

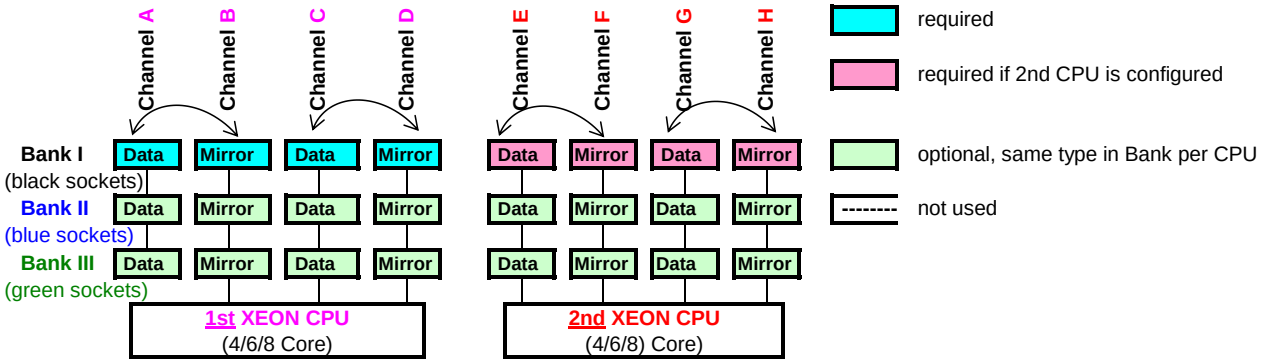
- A so called Bank consits of 1 memory module on every Channel available on one CPU (examples see below)
  Bank I on CPU 1/2 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU
  Bank II on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU
  Bank III on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU
  (can not be populated by UDIMM or 4R RDIMM memory modules)
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



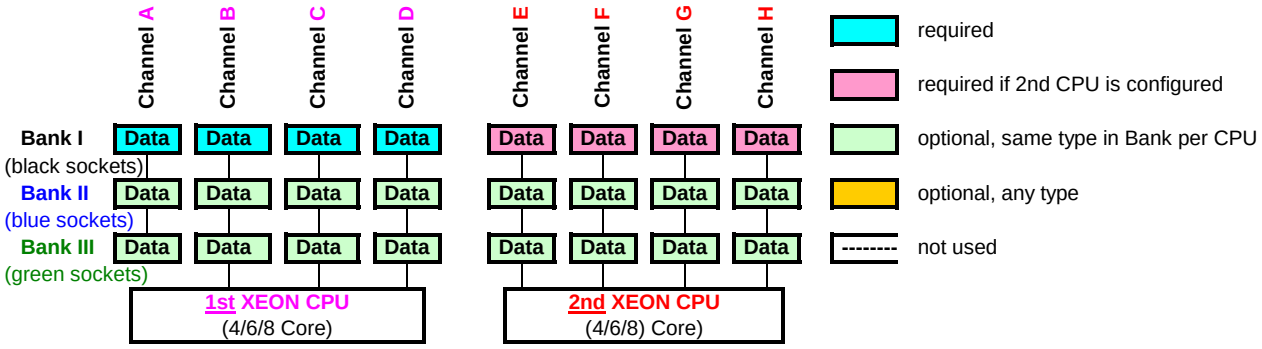
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



Mirrored Channel Mode requires identical modules on channel A,B, C, D (1st CPU) or channel E, F, G and H (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
If this mode is used, a multiple of 4 identical modules has to be ordered.

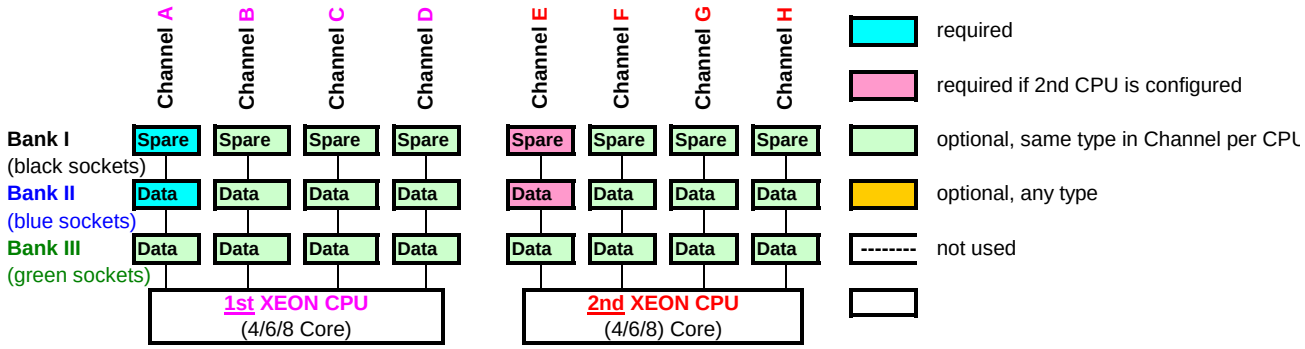
3. Performance Channel Mode



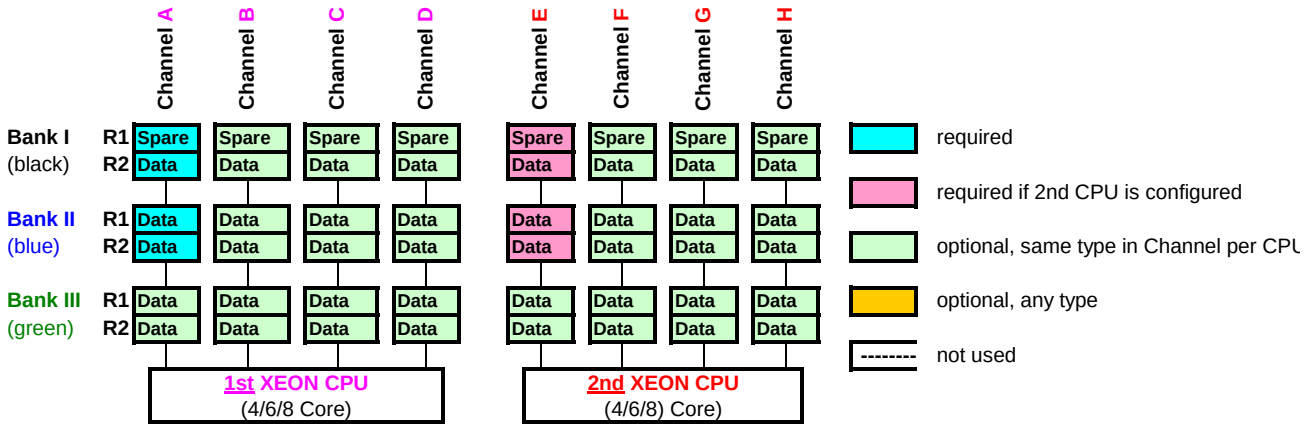
Performance Channel Mode requires identical modules on all channels of each Bank per CPU.
If this mode is used, a multiple of 4 identical modules has to be ordered.

4. Rank Sparing Mode

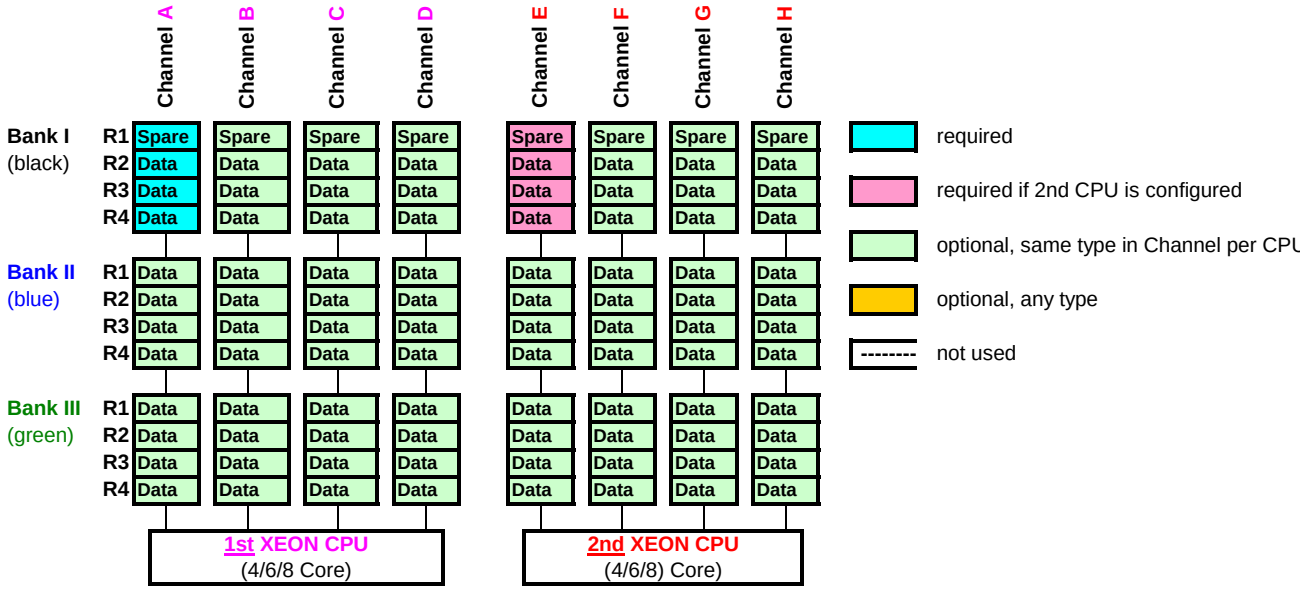
1-Rank Memory modules (RDIMM)



2-Rank Memory modules (RDIMM)



4-Rank Memory modules (LRDIMM)



Rank Sparing Mode requires identical modules (same capacity and technology) within the same channel.
The available memory for applications will vary depending on configuration. Please refer to the spreadsheet above "Effective Memory capacity with active Rank Sparing Mode". Population rule for Rank sparing mode is to achieve max. available memory, e.g. 6 DIMMs will be spread across two channels, each with 3DPC

H

Section IV Graphics & GPGPU & Co-Processors

Graphics Controller integrated in iRMC S3 (integrated Remote Management Controller) with following resolutions:
1920x1200x16bpp, 1920x1080x16bpp, 1600x1200x16bpp, 1680x1050x16bpp, 1440x900x16bpp,
1280x1024x32bpp, 1152x864x16bpp, 1024x768x32bpp, 800x600x32bpp, 640x480x32bpp

S26361-F2571-E26
Optional Front-VGA
for Onboard Controller only
consists of internal cable and
front VGA connector
max. 1x per system

S26361-F2748-E537
PY VGA card 512MB PCI-e x1
NVIDIA NVS300
512 MB PCIe-x1
Connectors: 1x LFH 59
cable kit for 2x DVI or 2x VGA
cable kits included
Dual head + professional 2-D + 3-D
supported for Windows OS
native driver support for Linux OS
full height bracket
max. 1x per system

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

The hight end optional NVIDIA NVS300 graphic card offers dual head operation
and fully 3D video support. The cables for either two times
DVI-I or VGA (cable kit) connections are part of the delievery.
Remote Video direction via iRMC must be disabled.
This PCIe-x1 card can also be installed in any PCIe-x4, x8 or x16 slot.
Only one card per server is allowed.

NVIDIA Tesla GPGPU

One or two GPGPU (General Purpose Graphical Processor Unit) can be ordered as option.
The Power Cable kit has to be ordered seperatly and will be installed if ordered ex factory together
with the GPGPU card. **New cards requires the suitable Air Duct and bracket kit!**
No mix betwenn differnet types of GPGPU or Co-Processor cards allowed

S26361-F3736-E1
PY GPGPU Cable Kit
consists of 2 power cables and
an universal PCI card holder
max. 1x per system

S26361-F3736-L1
PY GPGPU Cable Kit
consists of 2 power cables and
an universal PCI card holder
vor loose delivery

as long as stock last

2x

S26361-F2856-E997
PY NVIDIA Tesla C2075 Computing-Processor
NVIDIA Tesla C2075
6 GB Memory
PCIe Gen2-x16
for GPGPU purpose only
800W PSU is recommended
occupied space for two PCI slots
full height bracket
max. 2x per system

PY NVIDIA Tesla C2075 Computing-Processor
800W PSU is recommended

S26361-F2856-L997
PY GPU card 6GB PCIe2 x16
for loose delivery

This mounting kits contain an airduct that uses 2 bays 1.6" x 5.25".
If these are ordered this 2 bays cannot contain ODD or backup devices.

1x

S26361-F3736-E2
PY K20 / K20X Mounting Kit
consists of 2 power cables, an
PCI card holder + Airduct
max. 1x per system

Note the mountingkit is needed
only one timer per System
The GPGPU cards can be ordered twice

S26361-F3736-L2
PY K20 / K20X Mounting Kit
consists of 2 power cables, an
PCI card holder + Airduct
for loose delivery

PY NVIDIA Tesla K20 / K20X
Computing-Processor 800W PSU is recommended

With 2x PY NVIDIA Tesla K20X
ambient temperature should not excced 30°C

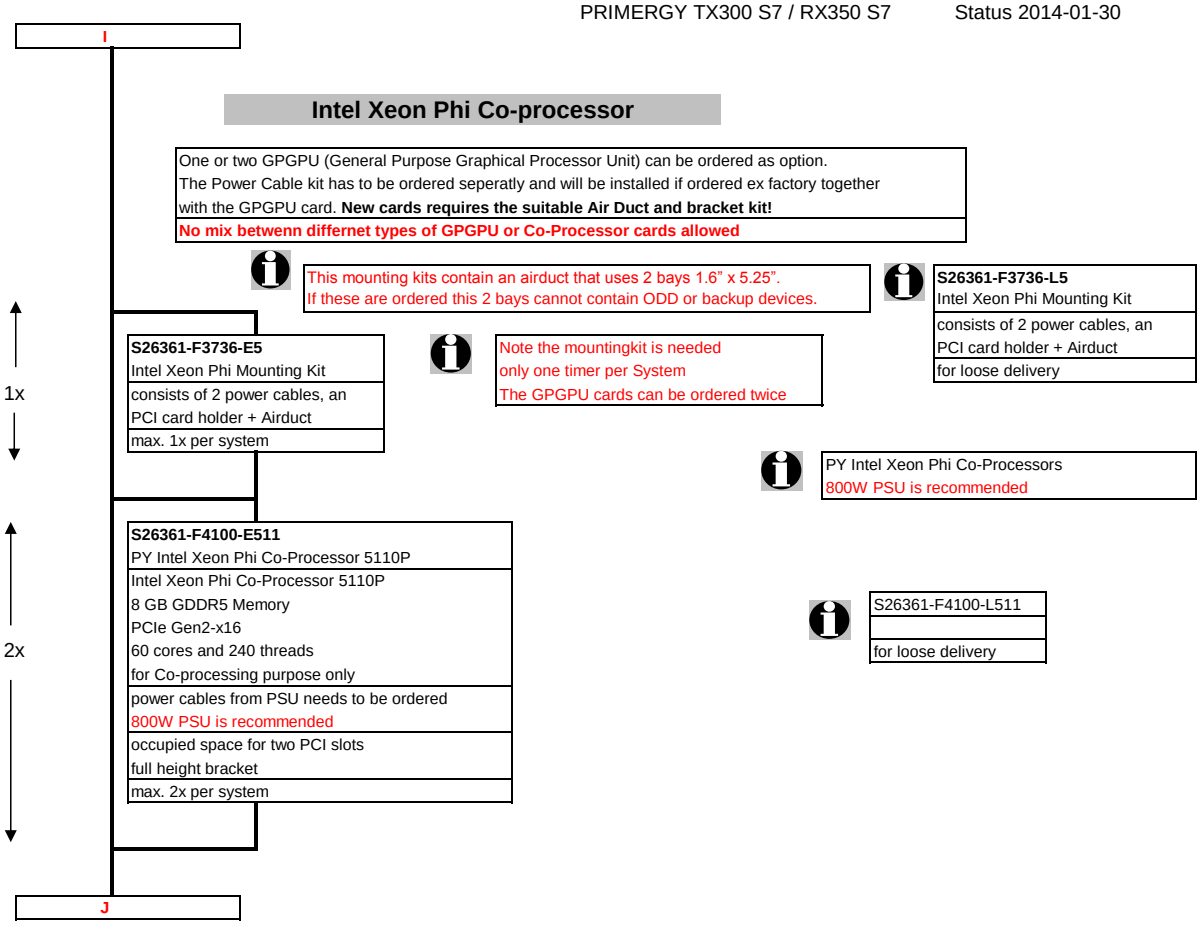
2x

S26361-F2222-E22
PY NVIDIA Tesla K20 Computing-Processor
NVIDIA Tesla K20
5 GB Memory
PCIe Gen2-x16
2496 cores
for GPGPU purpose only
power cables from PSU needs to be ordered
800W PSU is recommended
occupied space for two PCI slots
full height bracket
max. 2x per system

S26361-F2222-E24
PY NVIDIA Tesla K20X Computing-Processor
NVIDIA Tesla K20X
6 GB Memory
PCIe Gen**3**-x16 technical via card BIOS GEN2
2688 cores
for GPGPU purpose only
power cables from PSU needs to be ordered
800W PSU is recommended
occupied space for two PCI slots
full height bracket
max. 2x per system

S26361-F2222-L22
S26361-F2222-L24
for loose delivery

I


I
Intel Xeon Phi Co-processor
One or two GPGPU (General Purpose Graphical Processor Unit) can be ordered as option.
The Power Cable kit has to be ordered seperatly and will be installed if ordered ex factory together with the GPGPU card. New cards requires the suitable Air Duct and bracket kit!
No mix betwenn differnet types of GPGPU or Co-Processor cards allowed
This mounting kits contain an airduct that uses 2 bays 1.6" x 5.25".
If these are ordered this 2 bays cannot contain ODD or backup devices.
S26361-F3736-L5
Intel Xeon Phi Mounting Kit
consists of 2 power cables, an PCI card holder + Airduct
for loose delivery
1x
S26361-F3736-E5
Intel Xeon Phi Mounting Kit
consists of 2 power cables, an PCI card holder + Airduct
max. 1x per system
Note the mountingkit is needed
only one timer per System
The GPGPU cards can be ordered twice
PY Intel Xeon Phi Co-Processors
800W PSU is recommended
2x
S26361-F4100-E511
PY Intel Xeon Phi Co-Processor 5110P
Intel Xeon Phi Co-Processor 5110P
8 GB GDDR5 Memory
PCIe Gen2-x16
60 cores and 240 threads
for Co-processing purpose only
power cables from PSU needs to be ordered
800W PSU is recommended
occupied space for two PCI slots
full height bracket
max. 2x per system
S26361-F4100-L511
for loose delivery
J

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 A
occupies 1 accessible bay
for all base units

see Conf. Diagram Option B
occupies 2 accessible bays
only 3.5" HDD base units

see Conf. Diagram Option C
occupies all 3 bays
only 3.5" HDD base units

S26361-F2826-E205
Mounting Kit DVD(sl) + LSD
Occupies **one 5.25" x 1.6" bay**
in the accessible bay area
Offers bays for:
- 1x **LSD** option
- 1x 0.5 * 5.25" SATA **DVD**

max. 1x per system

S26361-F2826-E105
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 3.5" SAS/SATA **HDD`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 HDD bays
max. 1 per system

S26361-F2826-E435
Mounting Kit DVD(sl) +
SAS LFF HDD
Occupies **all 5.25" x 1.6" bays**
in the accessible bay area
Offers bays for:
- 1x 0.5 * 5.25" SATA **DVD**
- 4x 3.5" SAS/SATA **HDD's**

Two 1 * 3,25" satin black bezels
for SAS HDD bays
max. 1x per system

S26361-F3668-E1
24x SAS Expander
required for HDDs within
accessible drives area
Raid Controller required
max. 1x per system

S26361-F3668-E1
24x SAS Expander
required for HDDs within
accessible drives area
Raid Controller required
max. 1x per system

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

S26361-F2557-E106
Local Service Display incl. Install. kit
Customer Self Service
LSD module incl. mounting kit
0.5" x 5.25"
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

K

K

2x

S26361-F3325-E4
Tape drive DDS Gen6 USB 5.25"
80GB, 6MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25", black bezel
max. 1x per system

data cartridges must be ordered separately

USB 3.0 adapter and RDX USB3.0 drive

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

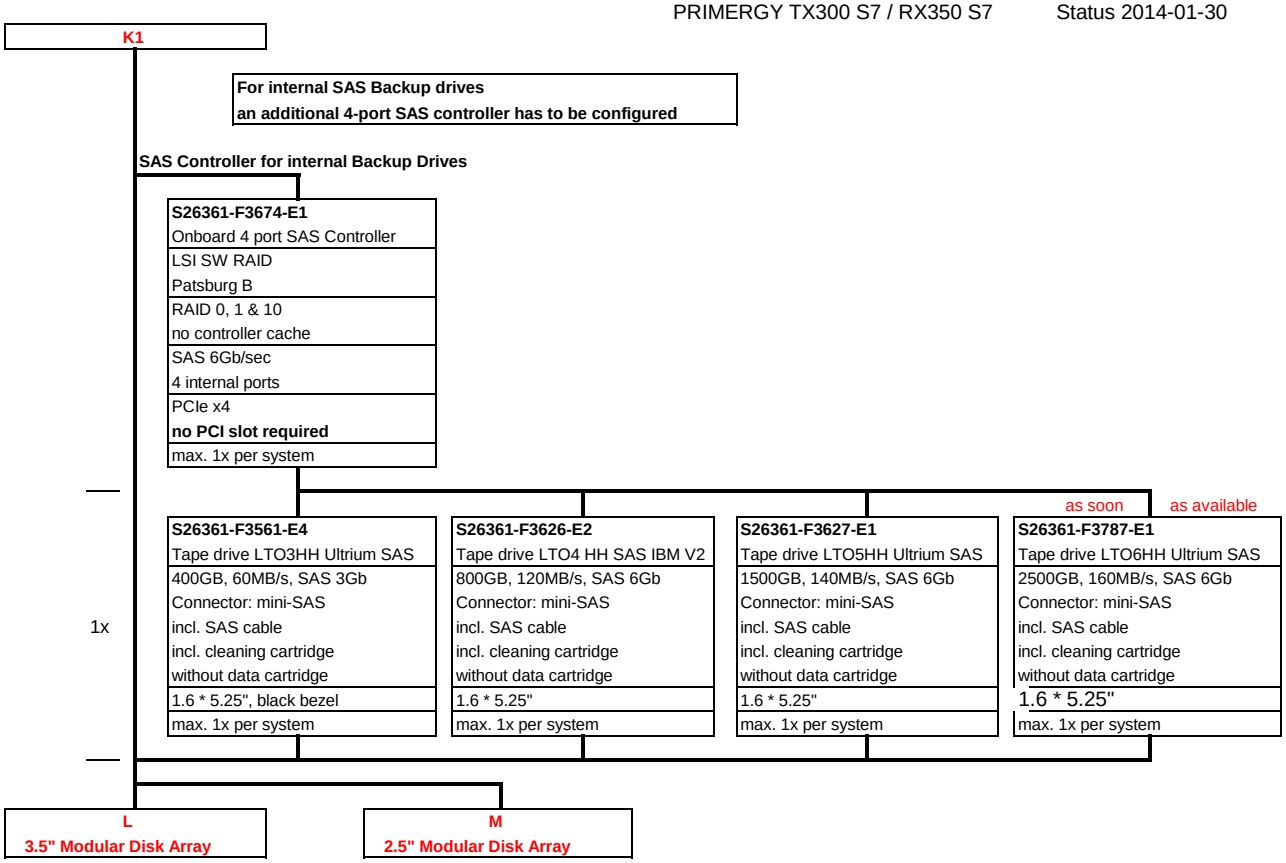
The bundle is also available as optional (loose) delivery
S26361-F3750-L504 with USB3.0 cable for adapter card.
The USB3.0 Adapter card or the USB2.0 cable set
S26361-F3750-L20 must be ordered with the drive!

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!

K1


K1
For internal SAS Backup drives
an additional 4-port SAS controller has to be configured
SAS Controller for internal Backup Drives
S26361-F3674-E1
Onboard 4 port SAS Controller
LSI SW RAID
Patsburg B
RAID 0, 1 & 10
no controller cache
SAS 6Gb/sec
4 internal ports
PCIe x4
no PCI slot required
max. 1x per system
as soon
as available
1x
S26361-F3561-E4
Tape drive LTO3HH Ultrium SAS
400GB, 60MB/s, SAS 3Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3626-E2
Tape drive LTO4 HH SAS IBM V2
800GB, 120MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data 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. cleaning cartridge
without data cartridge
1.6 * 5.25"
max. 1x per system
S26361-F3787-E1
Tape drive LTO6HH Ultrium SAS
2500GB, 160MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25"
max. 1x per system
L
3.5" Modular Disk Array
M
2.5" Modular Disk Array

L

Section VI Modular Raid Controller for 3.5" Hard Disks

On board SATA Controller can be used with up to 4x 3.5" SATA HDDs (no additional controller required)
For up to 4x 3.5" SAS HDDs with RAID 0/1 functionality a Patsburg Upgrade Kit is required (no SAS tape option)
This functionality is not available at launch!
For all other HDD configurations a modular RAID-controllers is required

Modular Raid 0/1 controller with IME support for SAS/SATA
This RAID controller supports 8 HDDs on the **4 + 4** internal SAS ports

S26361-F3674-E1
Onboard 4 port SAS Controller
LSI SW RAID
Patsburg B
RAID 0, 1 & 10
no controller cache
SAS 6Gb/sec
4 internal ports
PCIe x4
no PCI slot required
max. 1x per system

S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1 & 10
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system

as long as available

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

S26361-F3257-E270
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller

S26361-F3257-L110
Cache Battery Backup Unit
with 16cm, 55cm, 70cm cable set
max. 1x per Controller
max. 3x per System

as long as available

S26361-F3669-E1
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system

S26361-F3669-E100
TFM Module for FBU option
max. 1x per Controller

S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller

as soon as available

S26361-F3669-E660
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller

as soon as available

S26361-F3669-E3
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
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
RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported.
This RAID controller supports 8 HDDs on the **4 + 4** internal SAS ports or 10 HDD`s with **Option B** or 12 HDD's with **Option C** 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.

as soon as available

S26361-F3669-L660
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller

S26361-F3669-L100
TFM Module for FBU option
max. 1x per Controller

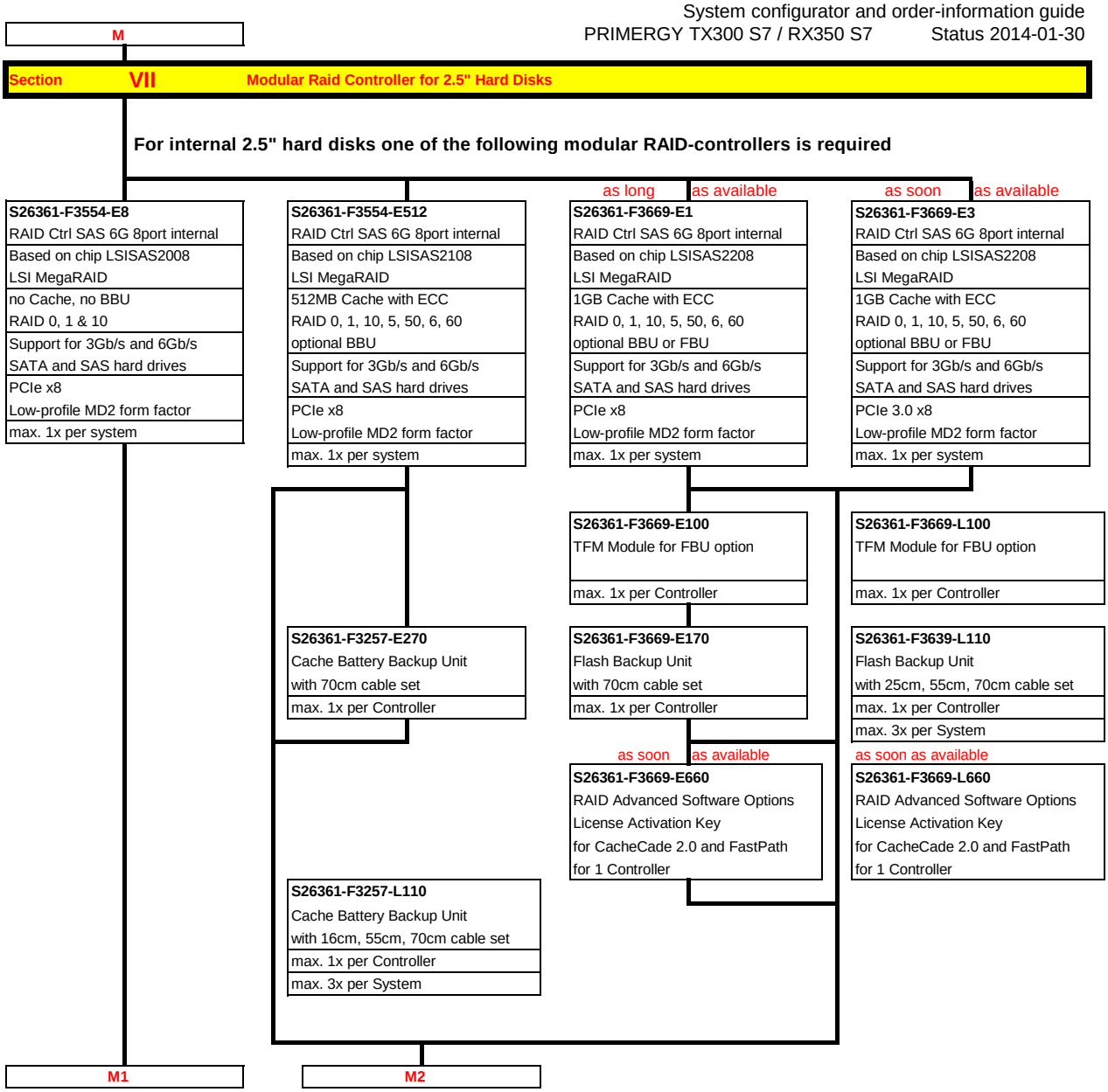
S26361-F3669-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set
max. 1x per Controller
max. 3x per System

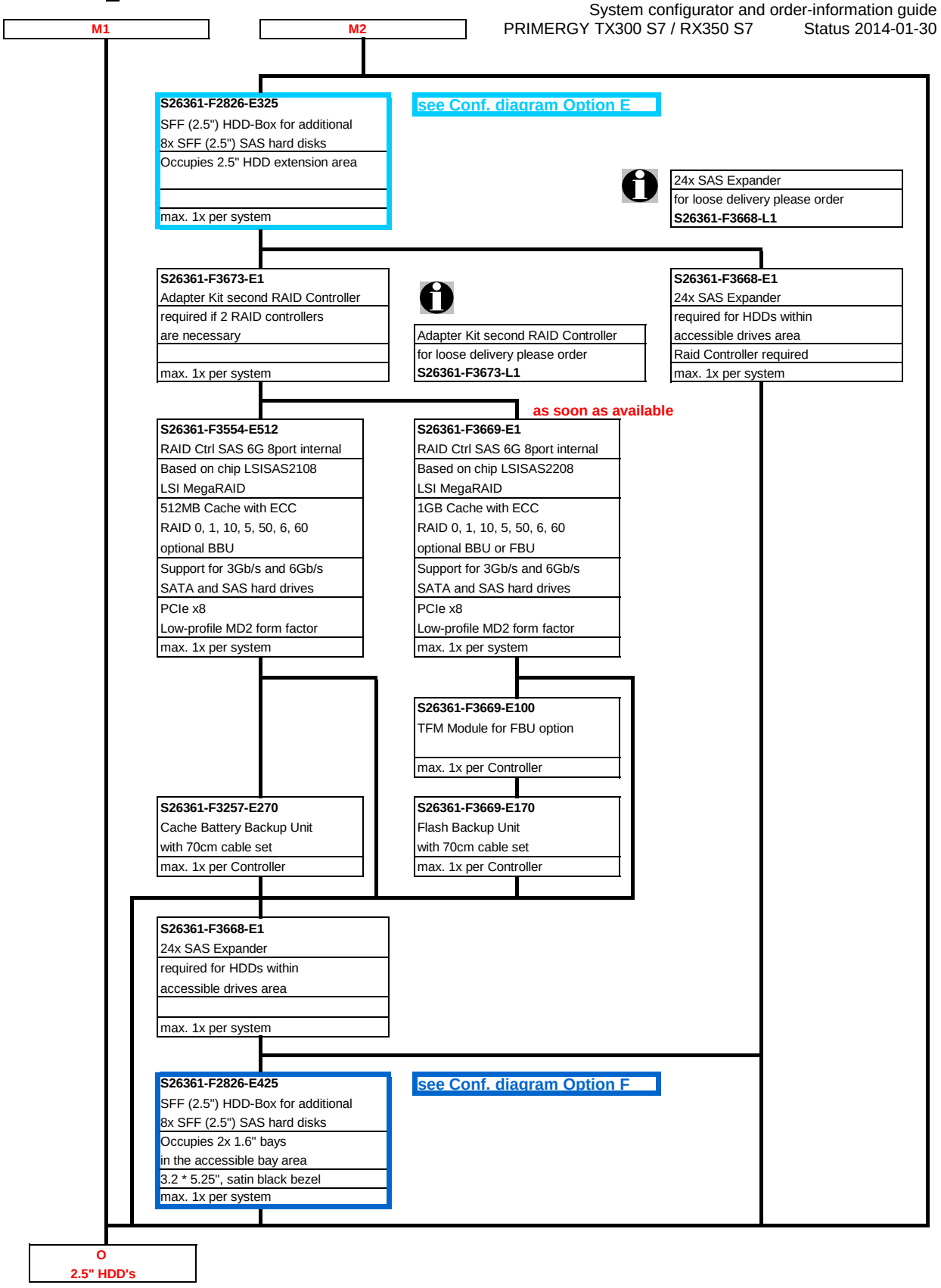
S26361-F2826-E335
LFF (3.5") HDD-Box for additional
4x LFF (3.5") SAS hard disks
Occupies 3.5" HDD extension area
max. 1x per system

see Conf. diagram Option D

LFF (3.5") HDD-Box
for loose delivery please order
S26361-F2826-L335

N
3.5" HDD's


M
Section VII Modular Raid Controller for 2.5" Hard Disks
For internal 2.5" hard disks one of the following modular RAID-controllers is required
S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1 & 10
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
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 x8
Low-profile MD2 form factor
max. 1x per system
as long
as available
S26361-F3669-E1
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
as soon
as available
S26361-F3669-E3
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe 3.0 x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3669-E100
TFM Module for FBU option
max. 1x per Controller
S26361-F3669-L100
TFM Module for FBU option
max. 1x per Controller
S26361-F3257-E270
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller
S26361-F3639-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set
max. 1x per Controller
max. 3x per System
as soon
as available
S26361-F3669-E660
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
as soon as available
S26361-F3669-L660
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
S26361-F3257-L110
Cache Battery Backup Unit
with 16cm, 55cm, 70cm cable set
max. 1x per Controller
max. 3x per System
M1
M2


M1
M2
S26361-F2826-E325
SFF (2.5") HDD-Box for additional
8x SFF (2.5") SAS hard disks
Occupies 2.5" HDD extension area
max. 1x per system
see Conf. diagram Option E
24x SAS Expander
for loose delivery please order
S26361-F3668-L1
S26361-F3673-E1
Adapter Kit second RAID Controller
required if 2 RAID controllers
are necessary
max. 1x per system
Adapter Kit second RAID Controller
for loose delivery please order
S26361-F3673-L1
S26361-F3668-E1
24x SAS Expander
required for HDDs within
accessible drives area
Raid Controller required
max. 1x per system
as soon as available
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
S26361-F3669-E1
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3669-E100
TFM Module for FBU option
max. 1x per Controller
S26361-F3257-E270
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller
S26361-F3668-E1
24x SAS Expander
required for HDDs within
accessible drives area
max. 1x per system
S26361-F2826-E425
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
see Conf. diagram Option F
O
2.5" HDD's

N

Section VIII 3.5" SAS / SATA Hard disk drives

In a basic unit **4x** 3.5" HDDs can be configured.
With **Option D** additional 4x 3.5" HDDs are possible.
If **Option D** is installed it is possible to add
Option B with another 2x 3.5" HDDs **or**
Option C with up to 4x 3.5" HDDs.

This leads to:
Option D up to **8x** 3.5" HDDs
Option D + **Option B** up to **10x** 3.5" HDDs
Option D + **Option C** up to **12x** 3.5" HDDs

Up to 12x 3.5" SAS or SATA hard disks can be configured.
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

4x or 8x or
10x or 12x

S26361-F4005-E530	**S26361-F4005-E545**	**S26361-F4005-E560**
HD 300GB 15krpm 3.5"	HD 450GB 15krpm 3.5"	HD 600GB 15krpm 3.5"
15.000rpm,<4ms, 16MB Cache	15.000rpm,<4ms, 16MB Cache	15.000rpm,<4ms, 16MB Cache
SAS 6Gb/s	**SAS 6Gb/s**	**SAS 6Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

S26361-F3670-E500	**S26361-F3670-E100**	**S26361-F3294-E200**
HD 500GB 7.2krpm 3.5"	HD 1000GB 7.2krpm 3.5"	HD 2000GB 7.2krpm 3.5"
7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 64MB Cache
BC SATA 6Gb/s	**BC SATA 6Gb/s**	**BC SATA 3Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

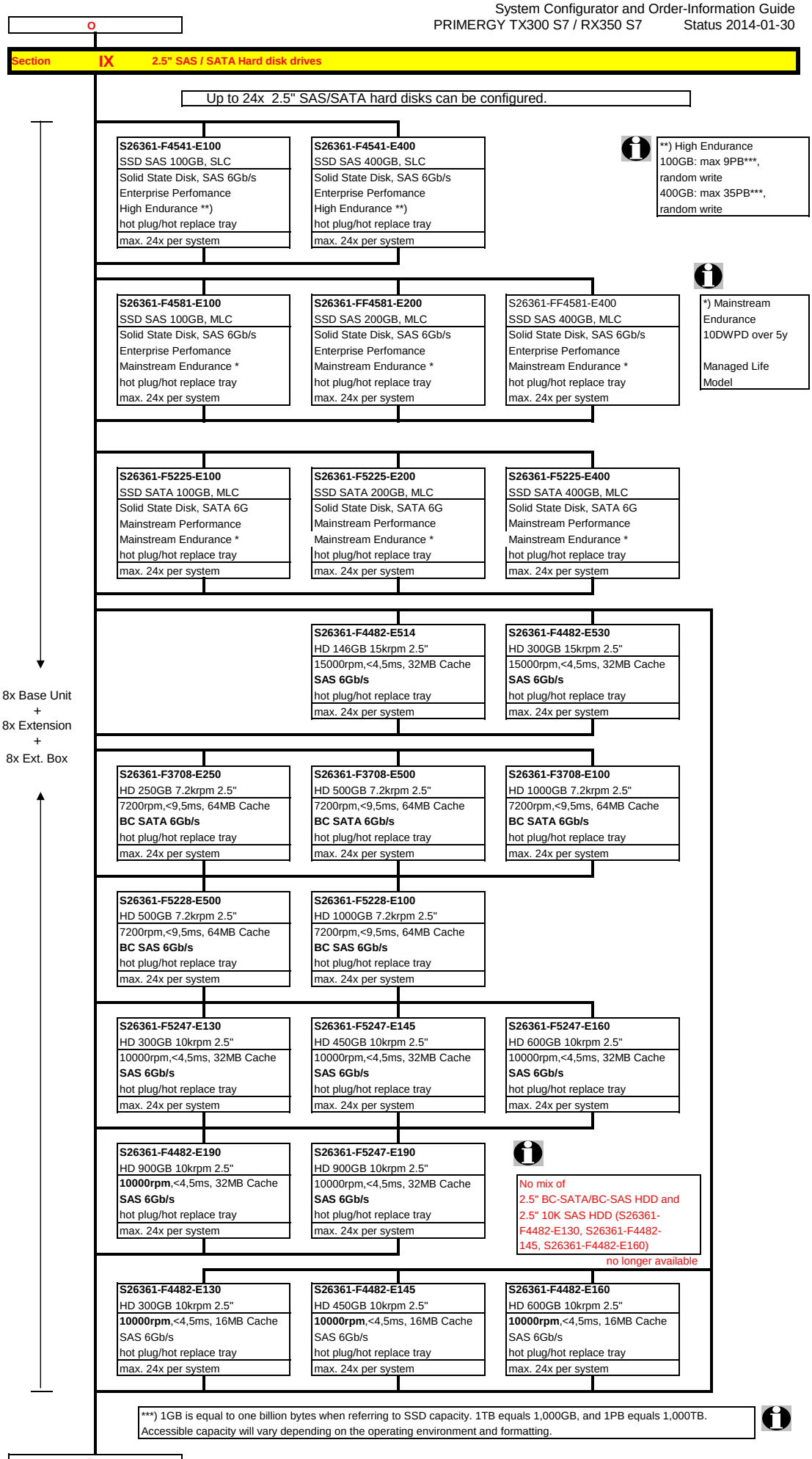
S26361-F3670-E200	**S26361-F3670-E300**	**S26361-F3670-E400**
HD 2000GB 7.2krpm 3.5"	HD 3000GB 7.2krpm 3.5"	HD 4TB 7.2krpm 3.5"
7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 64MB Cache
BC SATA 6Gb/s	**BC SATA 6Gb/s**	**BC SATA 6Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

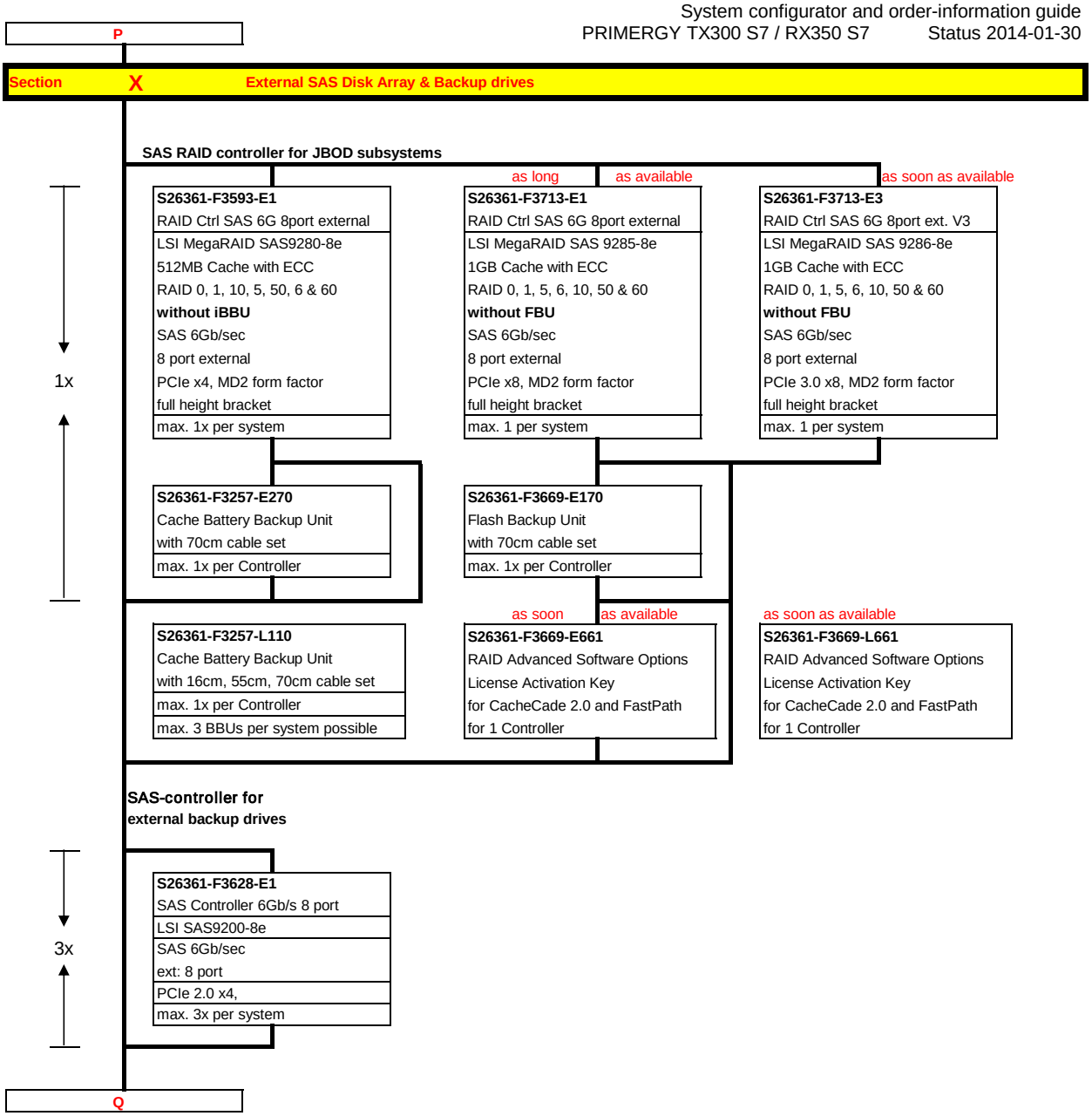
S26361-F5241-E100	**S26361-F5241-E200**	**S26361-F5241-E300**
HD 1TB 7.2krpm 3.5"	HD 2TB 7.2krpm 3.5"	HD 3TB 7.2krpm 3.5"
7200rpm,<9.0 ms, 32MB Cache	7200rpm,<9.0 ms, 32MB Cache	7200rpm,<9.0 ms, 32MB Cache
BC SAS 6Gb/s	**BC SAS 6Gb/s**	**BC SAS 6Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

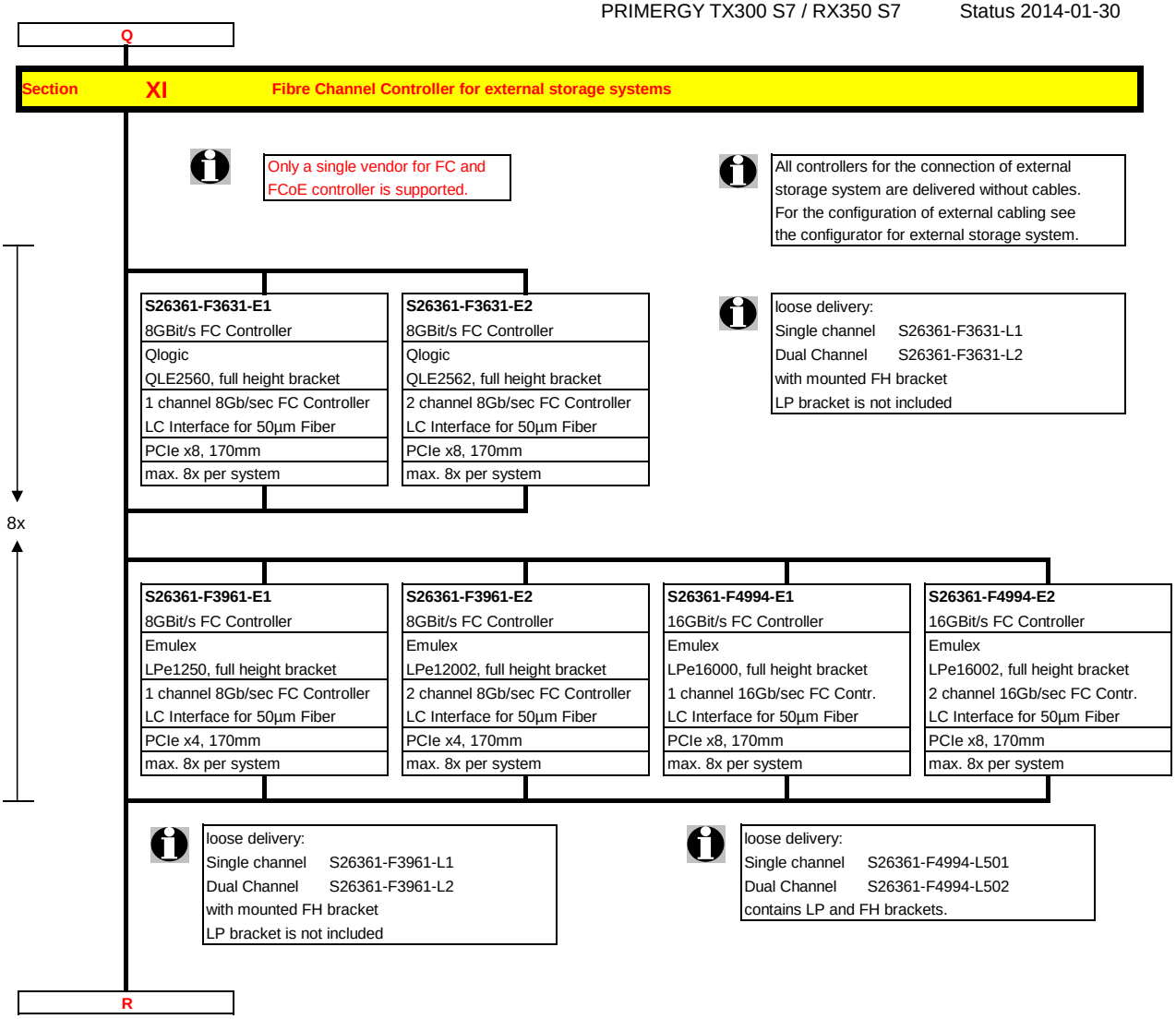
S26361-F5241-E400
HD 4TB 7.2krpm 3.5"
7200rpm,<9.0 ms, 32MB Cache
BC SAS 6Gb/s
hot plug/hot replace tray
max. 12x per system

3.5" BC SAS - as soon as available
3.5" BC SATA 4TB - as soon as available

P


O
Section IX 2.5" SAS / SATA Hard disk drives
Up to 24x 2.5" SAS/SATA hard disks can be configured.
S26361-F4541-E100
SSD SAS 100GB, SLC
Solid State Disk, SAS 6Gb/s
Enterprise Perfomance
High Endurance **)
hot plug/hot replace tray
max. 24x per system
S26361-F4541-E400
SSD SAS 400GB, SLC
Solid State Disk, SAS 6Gb/s
Enterprise Perfomance
High Endurance **)
hot plug/hot replace tray
max. 24x per system
**) High Endurance
100GB: max 9PB***,
random write
400GB: max 35PB***,
random write
S26361-F4581-E100
SSD SAS 100GB, MLC
Solid State Disk, SAS 6Gb/s
Enterprise Perfomance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
S26361-FF4581-E200
SSD SAS 200GB, MLC
Solid State Disk, SAS 6Gb/s
Enterprise Perfomance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
S26361-FF4581-E400
SSD SAS 400GB, MLC
Solid State Disk, SAS 6Gb/s
Enterprise Perfomance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
*) Mainstream
Endurance
10DWPD over 5y
Managed Life
Model
S26361-F5225-E100
SSD SATA 100GB, MLC
Solid State Disk, SATA 6G
Mainstream Performance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
S26361-F5225-E200
SSD SATA 200GB, MLC
Solid State Disk, SATA 6G
Mainstream Performance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
S26361-F5225-E400
SSD SATA 400GB, MLC
Solid State Disk, SATA 6G
Mainstream Performance
Mainstream Endurance *
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E514
HD 146GB 15krpm 2.5"
15000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E530
HD 300GB 15krpm 2.5"
15000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
8x Base Unit
+
8x Extension
+
8x Ext. Box
S26361-F3708-E250
HD 250GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F3708-E500
HD 500GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F3708-E100
HD 1000GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5228-E500
HD 500GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5228-E100
HD 1000GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E130
HD 300GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E145
HD 450GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E160
HD 600GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E190
HD 900GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E190
HD 900GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
No mix of
2.5" BC-SATA/BC-SAS HDD and
2.5" 10K SAS HDD (S26361-
F4482-E130, S26361-F4482-
145, S26361-F4482-E160)
no longer available
S26361-F4482-E130
HD 300GB 10krpm 2.5"
10000rpm,<4,5ms, 16MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E145
HD 450GB 10krpm 2.5"
10000rpm,<4,5ms, 16MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E160
HD 600GB 10krpm 2.5"
10000rpm,<4,5ms, 16MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
***) 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.
P


P
Section X External SAS Disk Array & Backup drives
SAS RAID controller for JBOD subsystems
as long
as available
as soon as available
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-F3713-E1
RAID Ctrl SAS 6G 8port external
LSI MegaRAID SAS 9285-8e
1GB Cache with ECC
RAID 0, 1, 5, 6, 10, 50 & 60
without FBU
SAS 6Gb/sec
8 port external
PCIe x8, MD2 form factor
full height bracket
max. 1 per system
S26361-F3713-E3
RAID Ctrl SAS 6G 8port ext. V3
LSI MegaRAID SAS 9286-8e
1GB Cache with ECC
RAID 0, 1, 5, 6, 10, 50 & 60
without FBU
SAS 6Gb/sec
8 port external
PCIe 3.0 x8, MD2 form factor
full height bracket
max. 1 per system
1x
S26361-F3257-E270
Cache Battery Backup Unit
with 70cm cable set
max. 1x per Controller
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller
as soon
as available
as soon as available
S26361-F3257-L110
Cache Battery Backup Unit
with 16cm, 55cm, 70cm cable set
max. 1x per Controller
max. 3 BBUs per system possible
S26361-F3669-E661
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
S26361-F3669-L661
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
SAS-controller for
external backup drives
3x
S26361-F3628-E1
SAS Controller 6Gb/s 8 port
LSI SAS9200-8e
SAS 6Gb/sec
ext: 8 port
PCIe 2.0 x4,
max. 3x per system
Q


Q
Section XI Fibre Channel Controller for external storage systems
Only a single vendor for FC and FCoE controller is supported.
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 8Gb/sec FC Controller
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 8x per system
S26361-F3631-E2
8GBit/s FC Controller
Qlogic
QLE2562, full height bracket
2 channel 8Gb/sec FC Controller
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 8x per system
loose delivery:
Single channel S26361-F3631-L1
Dual Channel S26361-F3631-L2
with mounted FH bracket
LP bracket is not included
8x
S26361-F3961-E1
8GBit/s FC Controller
Emulex
LPe1250, full height bracket
1 channel 8Gb/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 8x per system
S26361-F3961-E2
8GBit/s FC Controller
Emulex
LPe12002, full height bracket
2 channel 8Gb/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 8x per system
S26361-F4994-E1
16GBit/s FC Controller
Emulex
LPe16000, full height bracket
1 channel 16Gb/sec FC Contr.
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 8x per system
S26361-F4994-E2
16GBit/s FC Controller
Emulex
LPe16002, full height bracket
2 channel 16Gb/sec FC Contr.
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 8x per system
loose delivery:
Single channel S26361-F3961-L1
Dual Channel S26361-F3961-L2
with mounted FH bracket
LP bracket is not included
loose delivery:
Single channel S26361-F4994-L501
Dual Channel S26361-F4994-L502
contains LP and FH brackets.
R

R

Section XII Communication / Network

2x Gigabit (Dualport) Ethernet Contr. onboard
Intel LAN I350 (Powerville)
ext: 2x RJ 45 connector

Modular On-Board LAN is a flexible extension of a cost-optimized Motherboard with basic 2x Gbit LAN on-board.
5 different Upgrade-Kits are offered, which occupies a dedicated PCIe slot and can be ordered once per system.
If a modular LAN Controller is installed, max. 3 additional LAN controllers are possible!

Modular On-Board LAN Adapter

1x

S26361-F4610-E702
Upgrade-Kit to 4x 1Gb LAN on-board LP
PLAN CP 2x1Gbit Cu Intel I350-T2 LP
Intel Powerville based 2 port Server Ad.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system

S26361-F4610-E704
Upgrade-Kit to 6x 1Gb LAN on-board LP
PLAN CP 4x1Gbit Cu Intel I350-T4 LP
Intel Powerville based 4 port Server Ad.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system

S26361-F3629-E702
Upgrade-Kit to 2xGbit+2x10Gbit LOM
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
PCIe x8, Low Profile, Low Profile Bracket
ext: 2x SFP+ cage
max. 1x per system

S26361-F3740-E701
Upgrade-Kit to 4x Gbit LAN on-board
Eth Ctrl 2x1Gbit PCIe x4 D3035 Cu
Intel Powerville based 2 port Server Ad.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system

S26361-F3739-E701
Upgrade-Kit to 6x Gbit LAN on-board
Eth Ctrl 4x1Gbit PCIe x4 D3045 Cu
Intel Powerville based 4 port Server Ad.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system

while stocks last

S26361-F3610-E702
Upgrade-Kit to 4x Gbit LAN on-board
Eth Ctrl 2x1Gbit PCIe x4 D2735-2 Cu
Intel Kawela based 2 port Server Adap.
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 1x per system

2x

S26361-F3986-E3
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit Ethernet 50µm FO cabling
ext:LC-connector
max. 2x per adapter

S26361-F3986-E4
SFP+ Module SMF 10GbE LC
SFP+ module for 10 Gbit Ethernet 9µm FO cabling
ext:LC-connector
max. 2x per adapter

The 10Gb upgrade kit is delivered without SFP+ modules for optical cables, these must be ordered separately.
Without SFP+ modules copper twinax cables are supported

The SFP+ Module is also available as loose delivery
S26361-F3986-L3 / L4

Instead SFP+ Modules, SFP+ twinax cables from the switch vendors may be used
For cabling of D2755 please refer to chapter 10GbE 2-Port SFP+ for MMF Module

This is an option if Shared Management LAN over the 10Gb port is required instead Management LAN over 1Gb

S26361-F3629-E750
Shared 10Gb Management LAN
Install and configure Management LAN on 10Gb Shared LAN port
max. 1x per 10Gb upgrade kit

A) 1-Port Copper PCIe Adapter 1000TX

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

Loose delivery with:
S26361-F3516-L1

B) 1-Port MMF PCIe Adapter 1000SX

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

Loose delivery with:
S26361-F3242-L1

If a 1Gb modular LAN Controller is installed, max. 3 additional of the following 1Gb LAN controllers are possible!
S26361-F3740-E1, S26361-F3610-E2, S26361-F3739-E1, S26361-F4610-E2, S26361-F4610-E4

C) 2-Port Copper PCIe Adapter 1000TX

4x

S26361-F4610-E2
(I350-T2)
Gigabit Ethernet Controller Dual 1000TX
PLAN CP 2x1Gbit Cu Intel I350-T2
Intel Powerville based 2 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system

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. 4x per system

while stocks last

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

D) 4-Port Copper PCIe Adapter 1000TX

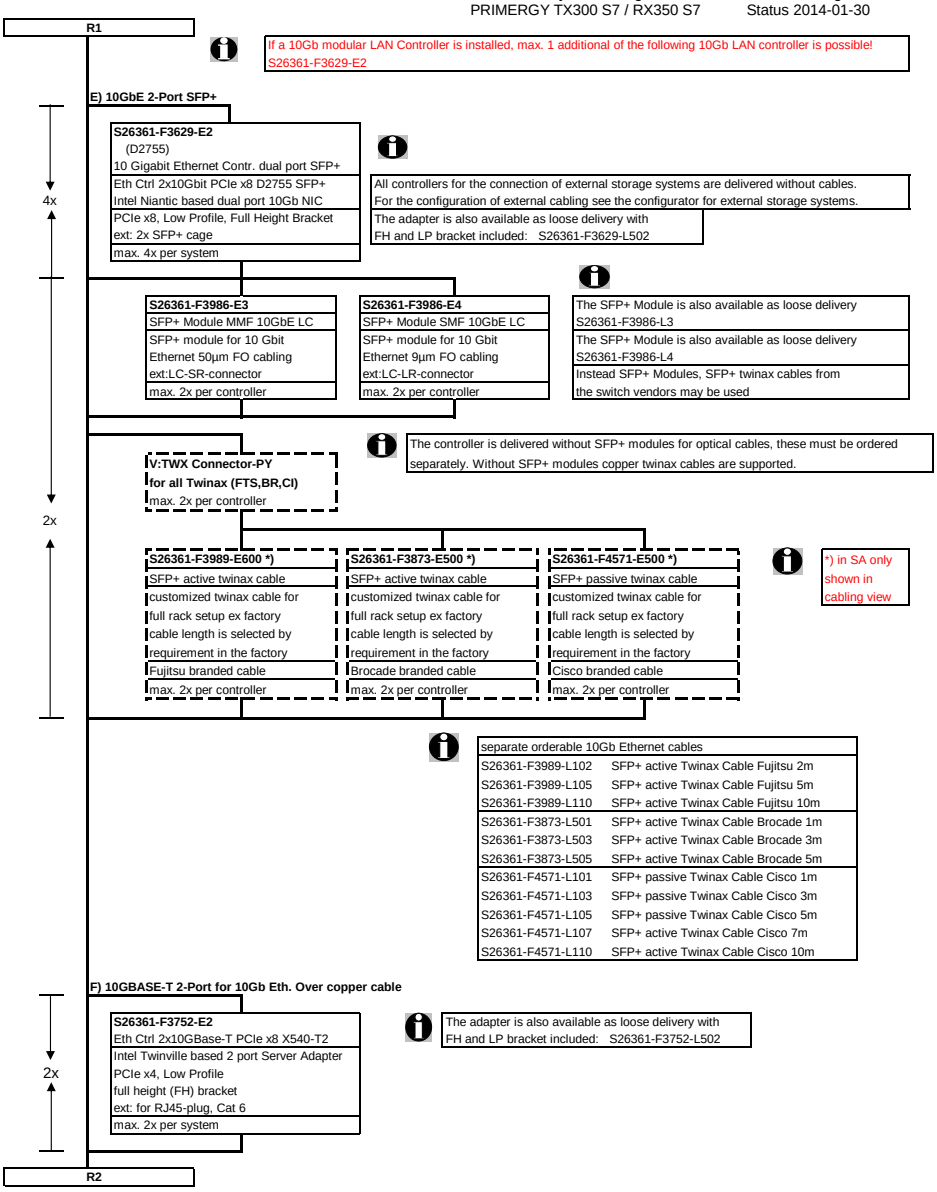
S26361-F4610-E4
(I350-T4)
Gigabit Ethernet Controller Quad 1000TX
PLAN CP 4x1Gbit Cu Intel I350-T4
Intel Powerville based 4 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system

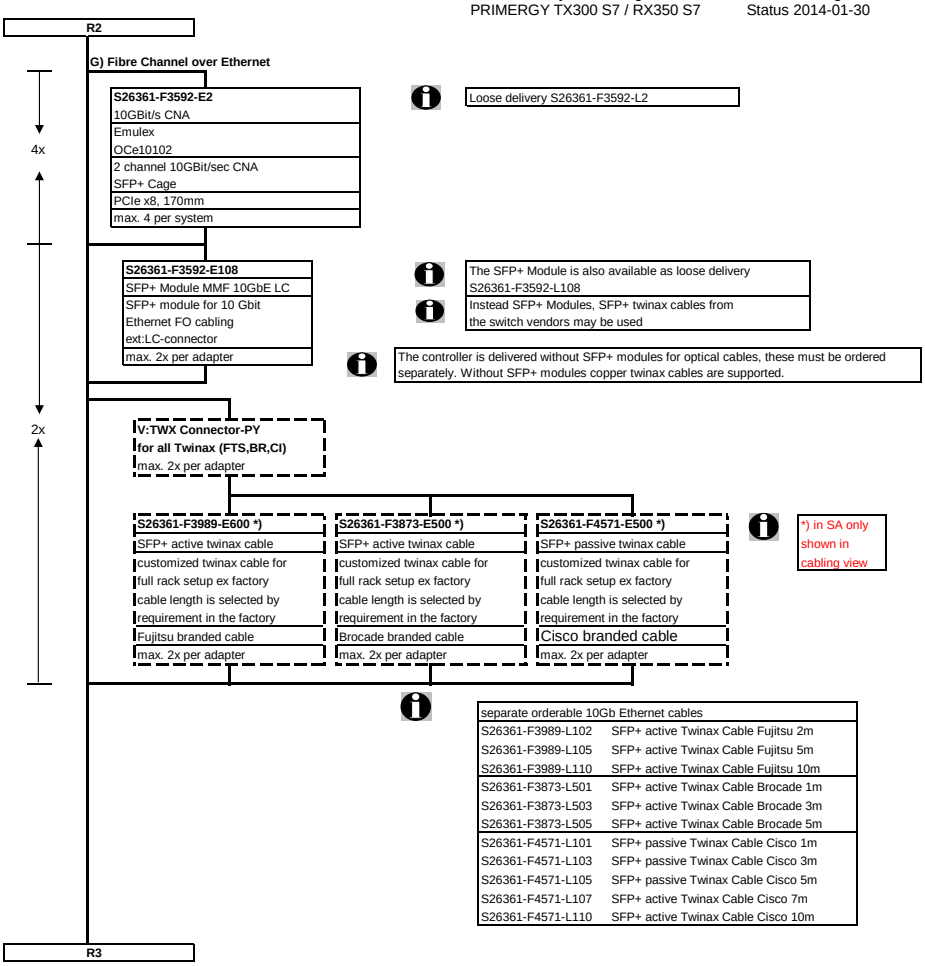
S26361-F3739-E1
(D3045)
Gigabit Ethernet Controller Quad 1000TX
Eth Ctrl 4x1Gbit Cu PCIe x4 D3045
Intel Powerville based 4 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system

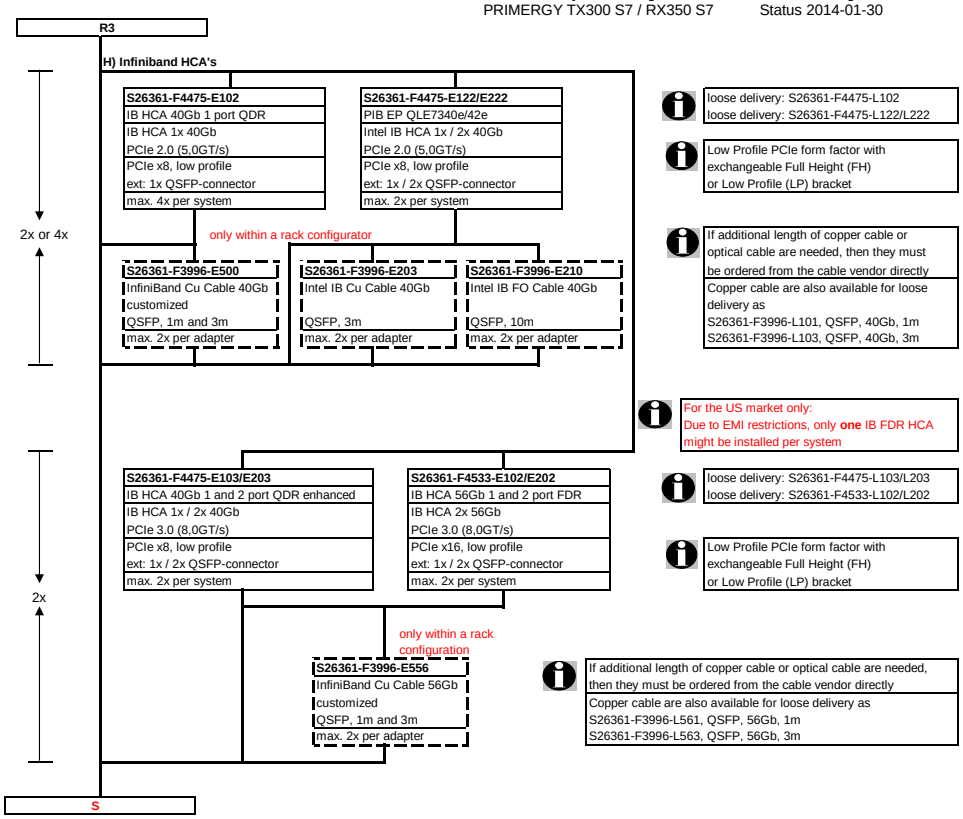
Loose delivery with FH and LP bracket:

I350-T2	S26361-F4610-L502
I350-T4	S26361-F4610-L504
D3035	S26361-F3739-L501
D3045	S26361-F3740-L501
D2735-2	S26361-F3610-L502

R1


R1
If a 10Gb modular LAN Controller is installed, max. 1 additional of the following 10Gb LAN controller is possible!
S26361-F3629-E2
E) 10GbE 2-Port SFP+
4x
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. 4x per system
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.
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 50µm FO cabling
ext:LC-SR-connector
max. 2x per controller
S26361-F3986-E4
SFP+ Module SMF 10GbE LC
SFP+ module for 10 Gbit
Ethernet 9µm FO cabling
ext:LC-LR-connector
max. 2x per controller
The SFP+ Module is also available as loose delivery
S26361-F3986-L3
The SFP+ Module is also available as loose delivery
S26361-F3986-L4
Instead SFP+ Modules, SFP+ twinax cables from
the switch vendors may be used
The controller is delivered without SFP+ modules for optical cables, these must be ordered separately. Without SFP+ modules copper twinax cables are supported.
2x
V:TWX Connector-PY
for all Twinax (FTS,BR,CI)
max. 2x per controller
S26361-F3989-E600 *)
SFP+ active twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Fujitsu branded cable
max. 2x per controller
S26361-F3873-E500 *)
SFP+ active twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Brocade branded cable
max. 2x per controller
S26361-F4571-E500 *)
SFP+ passive twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Cisco branded cable
max. 2x per controller
*) in SA only shown in cabling view
separate orderable 10Gb Ethernet cables
S26361-F3989-L102 SFP+ active Twinax Cable Fujitsu 2m
S26361-F3989-L105 SFP+ active Twinax Cable Fujitsu 5m
S26361-F3989-L110 SFP+ active Twinax Cable Fujitsu 10m
S26361-F3873-L501 SFP+ active Twinax Cable Brocade 1m
S26361-F3873-L503 SFP+ active Twinax Cable Brocade 3m
S26361-F3873-L505 SFP+ active Twinax Cable Brocade 5m
S26361-F4571-L101 SFP+ passive Twinax Cable Cisco 1m
S26361-F4571-L103 SFP+ passive Twinax Cable Cisco 3m
S26361-F4571-L105 SFP+ passive Twinax Cable Cisco 5m
S26361-F4571-L107 SFP+ active Twinax Cable Cisco 7m
S26361-F4571-L110 SFP+ active Twinax Cable Cisco 10m
F) 10GBASE-T 2-Port for 10Gb Eth. Over copper cable
2x
S26361-F3752-E2
Eth Ctrl 2x10GBase-T PCIe x8 X540-T2
Intel Twinville based 2 port Server Adapter
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 6
max. 2x per system
The adapter is also available as loose delivery with
FH and LP bracket included: S26361-F3752-L502
R2


R2
G) Fibre Channel over Ethernet
4x
S26361-F3592-E2
10GBit/s CNA
Emulex
OCe10102
2 channel 10GBit/sec CNA
SFP+ Cage
PCIe x8, 170mm
max. 4 per system
Loose delivery S26361-F3592-L2
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
The controller is delivered without SFP+ modules for optical cables, these must be ordered separately. Without SFP+ modules copper twinax cables are supported.
2x
V:TWX Connector-PY
for all Twinax (FTS,BR,CI)
max. 2x per adapter
S26361-F3989-E600 *)
SFP+ active twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Fujitsu branded cable
max. 2x per adapter
S26361-F3873-E500 *)
SFP+ active twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Brocade branded cable
max. 2x per adapter
S26361-F4571-E500 *)
SFP+ passive twinax cable
customized twinax cable for
full rack setup ex factory
cable length is selected by
requirement in the factory
Cisco branded cable
max. 2x per adapter
*) in SA only shown in cabling view
separate orderable 10Gb Ethernet cables
S26361-F3989-L102 SFP+ active Twinax Cable Fujitsu 2m
S26361-F3989-L105 SFP+ active Twinax Cable Fujitsu 5m
S26361-F3989-L110 SFP+ active Twinax Cable Fujitsu 10m
S26361-F3873-L501 SFP+ active Twinax Cable Brocade 1m
S26361-F3873-L503 SFP+ active Twinax Cable Brocade 3m
S26361-F3873-L505 SFP+ active Twinax Cable Brocade 5m
S26361-F4571-L101 SFP+ passive Twinax Cable Cisco 1m
S26361-F4571-L103 SFP+ passive Twinax Cable Cisco 3m
S26361-F4571-L105 SFP+ passive Twinax Cable Cisco 5m
S26361-F4571-L107 SFP+ active Twinax Cable Cisco 7m
S26361-F4571-L110 SFP+ active Twinax Cable Cisco 10m
R3


R3
H) Infiniband HCA's
2x or 4x
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. 4x per system
S26361-F4475-E122/E222
PIB EP QLE7340e/42e
Intel IB HCA 1x / 2x 40Gb
PCIe 2.0 (5,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
loose delivery: S26361-F4475-L102
loose delivery: S26361-F4475-L122/L222
Low Profile PCIe form factor with
exchangeable Full Height (FH)
or Low Profile (LP) bracket
only within a rack configurator
S26361-F3996-E500
InfiniBand Cu Cable 40Gb
customized
QSFP, 1m and 3m
max. 2x per adapter
S26361-F3996-E203
Intel IB Cu Cable 40Gb
QSFP, 3m
max. 2x per adapter
S26361-F3996-E210
Intel IB FO Cable 40Gb
QSFP, 10m
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
Copper cable are also available for loose
delivery as
S26361-F3996-L101, QSFP, 40Gb, 1m
S26361-F3996-L103, QSFP, 40Gb, 3m
For the US market only:
Due to EMI restrictions, only one IB FDR HCA
might be installed per system
2x
S26361-F4475-E103/E203
IB HCA 40Gb 1 and 2 port QDR enhanced
IB HCA 1x / 2x 40Gb
PCIe 3.0 (8,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
S26361-F4533-E102/E202
IB HCA 56Gb 1 and 2 port FDR
IB HCA 2x 56Gb
PCIe 3.0 (8,0GT/s)
PCIe x16, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
loose delivery: S26361-F4475-L103/L203
loose delivery: S26361-F4533-L102/L202
Low Profile PCIe form factor with
exchangeable Full Height (FH)
or Low Profile (LP) bracket
only within a rack
configuration
S26361-F3996-E556
InfiniBand Cu Cable 56Gb
customized
QSFP, 1m and 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
Copper cable are also available for loose delivery as
S26361-F3996-L561, QSFP, 56Gb, 1m
S26361-F3996-L563, QSFP, 56Gb, 3m
S

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Section XIII System Management Products (RemoteView)

iRMC S3 (integrated Remote Management Controller) onboard server management Controller with dedicated 10/100/1000 Service LAN-port and integrated graphics.
Optional 10/100 Service LAN-port on front panel.
The Service LAN-port can be switched alternatively on standard Gbit LAN port

S26361-F1790-E242
iRMC S3 advanced pack
integrated remote management controller
activation key for
graphical console redirection
and remote media redirection
max. 1x per system

S26361-F2571-E27
Maintenance LAN
Front management LAN Port
In combination with iRMC adv. pack
For local maintenance / console redirection,
Integrated in front (operating panel)
max. 1x per system

Section XIV Miscellaneous

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

S26361-F3776-E3
ENABLING LOW NOISE MODE TX300
Restricts configuration to make LNM possible
LNM is enabled ex factory
max. 1x per system

Configuration restrictions in LNM for TX300:
Max 4x 3.5" or 8x 2.5" HDDs are allowed!
Max 2x PSUs are allowed!
No GPGPU cards are allowed!
LNM can be enabled later, as long as the configuration restrictions are fulfilled
When adding not compatible components later, LNM will be switched off automatically

T

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Section XV Country specific options

as soon as available

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

S26361-F1452-E100	S26361-F1452-E110	**S26361-F1452-E130**
REGION KIT APAC/EMEA/India	REGION KIT JP	REGION KIT America
For Shipments to Asia pacific, EMEA or India regions	For Shipments to Japan regions	For Shipments to America
1x per system	1x per system	1x per system

PRIMERGY TX300 S7 Floorstand

PRIMERGY RX350 S7 Rack

Power cord has to be ordered separately

4x

Power cord options (1x per PSU)
1.8m, grey

T26139-Y1740-E10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10	UK, IR
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable like e.g. China

Power cord options (1x per PSU)

T26139-Y1968-E100	Powercord for rack, 4m, grey, **IEC 320 C14 connector**
T26139-Y1742-E10	USA, Canada, 1.8m, grey
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable like e.g. China

Option for Floorstand

USB keyboards for floorstand versions for following countries:

USB standard Keyboard KB520		**USB professional Keyboard KBPC PX ECO**
S26381-K520-E170	Switzerland	S26381-K341-E170
S26381-K520-E104	Czech/Slovak	S26381-K341-E104
S26381-K520-E120	Germany	S26381-K341-E120
S26381-K520-E180	Spain	S26381-K341-E180
S26381-K520-E140	France	S26381-K341-E140
S26381-K520-E165	United Kingdom	S26381-K341-E165
S26381-K520-E185	Italy	S26381-K341-E185
S26381-K520-E154	Sweden / Finland	S26381-K341-E154
S26381-K520-E102	USA / international	S26381-K341-E110

Option for Floorstand

Optional Mouse	
S26381-K457-E100	Mouse M510 black
S26381-K457-E101	Mouse M510 grey

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 S7

End PRIMERGY RX350 S7

Change Report

Date	Order number	Changes
2013-10-18	PCIe lenght	corrected
2013-10-18	Optional USB Comps	no longer available
2013-10-16	S26361-F4610-E2 / -E4	added new 1Gb NICs from Intel
2013-10-16	DDS5	removed from configurator due to EoL
2013-07-25		as long as stock last added for NVIDIA Tesla C2075
2013-05-28	S26361-F3787-E1	LTO6 added
2013-05-23	S26361-F3713-E3	RAID Ctrl SAS 6G 8Port ex 1GB LSI V3
2013-05-16	S26361-F4581-E100/E200/E400	New 2.5" SSD SAS 6G MLC added
2013-05-16	S26361-F3670-E400	New 3.5" BC-SATA 7.2K HDD 4TB
2013-05-16	S26361-F5241-E*	New 3.5" BC-SAS 7.2K HDD 1/2/3/4TB
2013-05-13		HDD & SSD description text updated
2013-05-13	S26361-F4482-E130/145/160	SAS HDD - no longer available
2013-05-07		GPGPU & Xeon Phi pages adjusted to "comp in sys" statements
2013-03-26	S26361-F3669-E660/L660	RAID advanced SW option added - for RAID Ctrl SAS 6G 1GB (D3116C)
2013-03-26	S26361-F3669-E3	RAID Ctrl SAS 6G 1GB (D3116C) added
2013-03-26	S26361-F3669-E661/L661	RAID advanced SW options added - for RAID Ctrl SAS 6G 8port external
2013-03-14	S26361-F3750-E324/504/E604	RDX & Cartridge bundles added
2013-02-14	Config. Diagram	Slot lenght corrected
2013-01-08	S26361-F5228-E***	New 2.5" BC-SAS 7.2K HDD
2013-01-08	S26361-F5247-E***	New 2.5" SAS 10K HDD (mix with BC-SATA supported, sucessor for *F5227*)
2012-12-13	S26361-F3585-E2	BD writer HH removed (EOL)
2012-12-13	S26361-F3641-E2	BD writer slim: "as soon as available" removed
2012-12-10	S26361-F3694-E3	"as soon as available" removed
2012-12-07	S26361-F2826-E105	HDD Box does not require LSD component any more
2012-12-07	S26381-K520-E170	new keyboard numbers introduced
2012-12-07	S26381-K457-E100	new mouse numbers introduced
2012-12-07	S26361-F3776-E3	ENABLING LOW NOISE MODE TX300 added
2012-12-06		added NVIDIA Tesla K20 & K20X and Intel Xeon Phi 5110P
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 USB3.0 Adapter
2012-10-08	S26361-F3750-Ex	Added RDX Drive
2012-10-01	S26361-F3986-E4	
2012-10-01	S26361-F3740-E1/E701	New 4-port Intel LAN controller and upgrade kit - as soon as available
2012-10-01	S26361-F3739-E1/E701	New 2-port Intel LAN controller and upgrade kit - as soon as available
2012-09-28	S26361-F4541-E200	EOL: 200GB SSD SAS SLC
2012-09-11	S26361-F4522-Exxx	PCIe SSD (occupies PCIe slot) as soon as available deleted
2012-07-25	S26361-F4581-Exxx	Add SSD SAS MLC
2012-07-16	S26361-F3857-L160/L169	RDX Cartridge 160GB is EOL => removed
2012-07-13	S26361-F5227-E1*	New order for 2.5” 10K SAS HDD supporting mix with 2.5” BC-SATA HDD
2012-07-13	S26361-F3857-L160/L169	RDX Cartridge 160GB is EOL => removed
2012-06-12	S26361-F5225-E*00	New order for SATA SSD´s
2012-05-08	S26361-F3753-E1	"Mounting Kit for 5,25" USB backup drives" added
2012-04-20		Memory voltage / frequency spreadsheet, 3DPC at 1.5V only
2012-03-30	S26361-F2735-L7	added, loose delivery of lateral cable management (GH)
2012-03-19	S26361-F3257-E270	change Cache Battery Backup -E170 to -E270
2012-03-09	S26361-F3700-E250/500	deleate 3,5" SATA 6Gb/s Economy HDs
2012-02-29		First release