FUJITSU

PRIMERGY RX500 S7

System configurator and order-information guide

August 2014

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Change report

PRIMERGY Server

Instructions

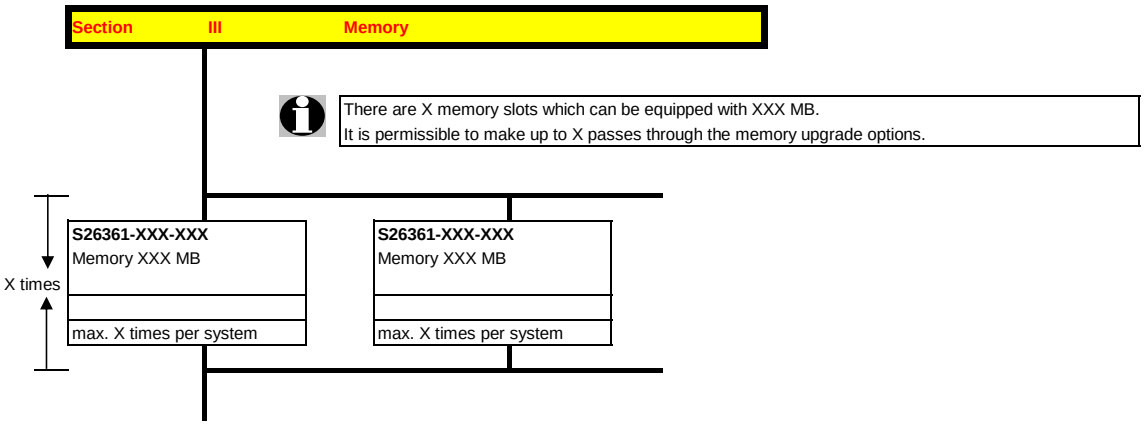
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

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:

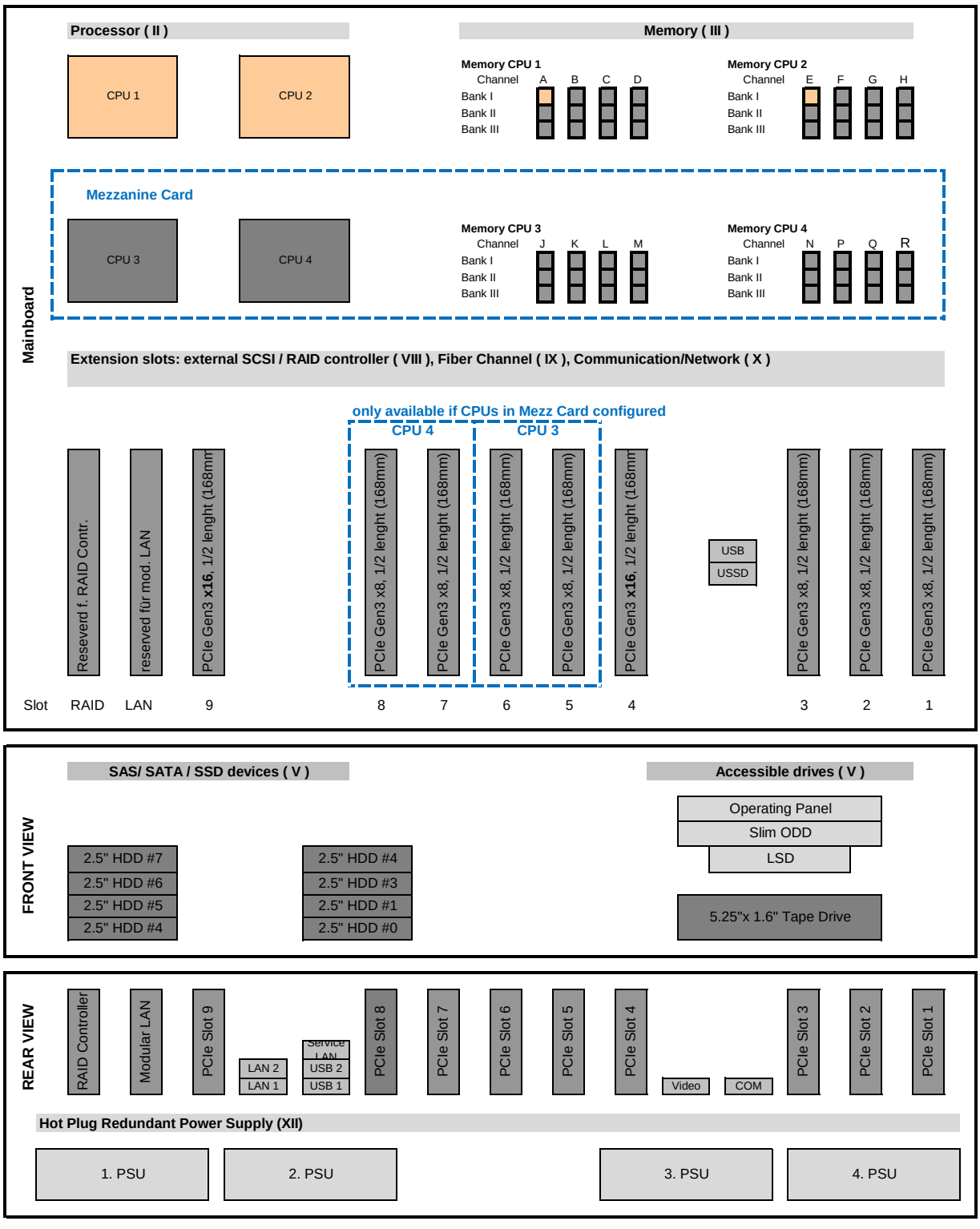
http://ts.fujitsu.com/products/standard_servers/index.html (internet)

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 RX500 S7

System unit (I)

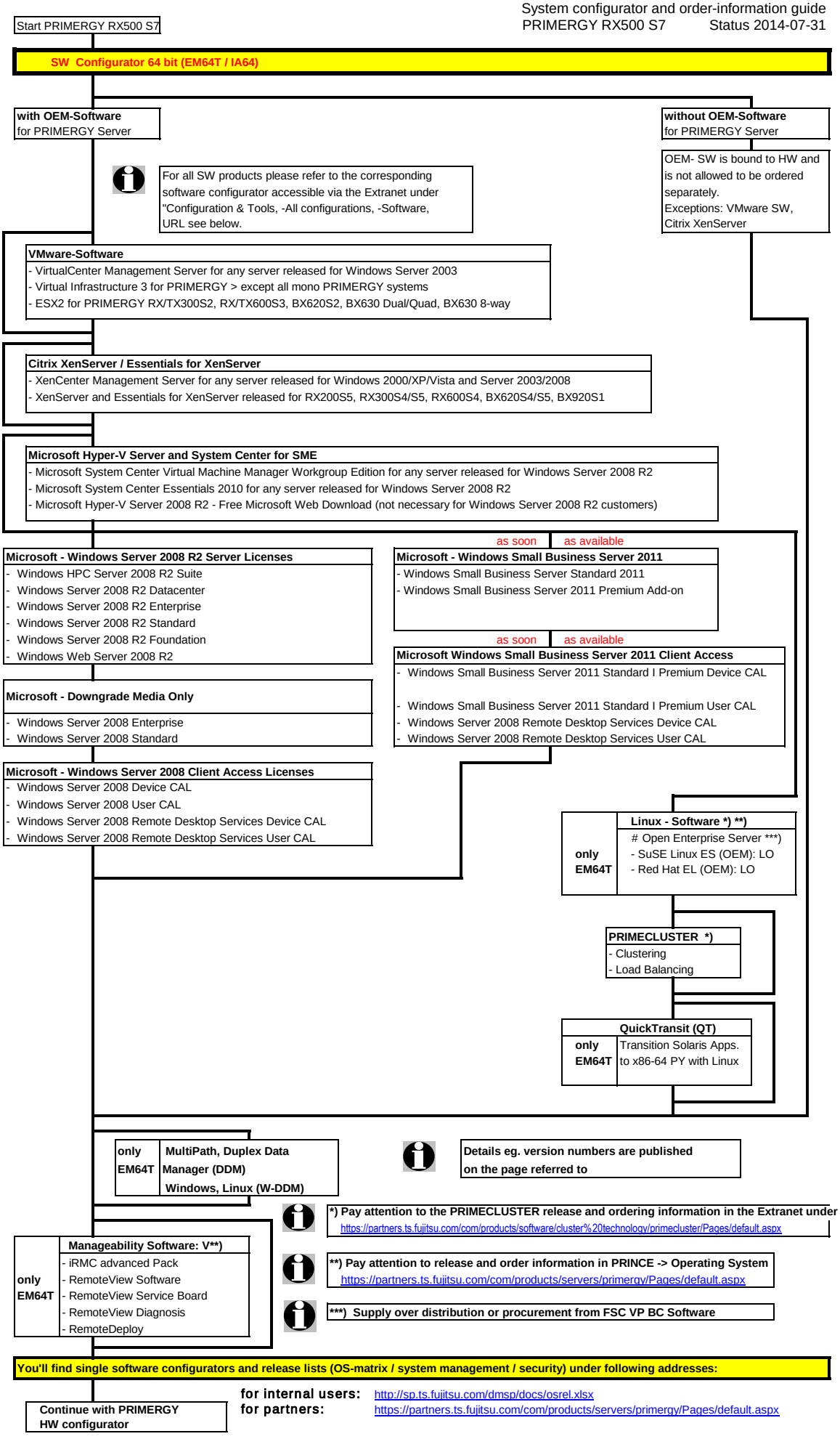


Key:

Included in basic unit

Option

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


Start PRIMERGY RX500 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)
as soon
as available
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 Server 2008 R2 Foundation
- Windows Web Server 2008 R2
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
only EM64T
Manageability Software: V**)
- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy
**) 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

Section I Basic units

PRIMERGY RX500 S7

Rack unit 4U with

- 4x fan(redunant)
- LCD-Display for LocalView (Service Display)
- 1 bay for optical disc drives (0,5" height)
- 1x 5.25" bays FH (1,6" high) for accessible drives
- 8 bays for 2.5" SAS/SATA HDD`s
- w/o Power Supply Modules
- w/o Power cord for rackmounting (ICE 320 C14->C13 plug)
- w/o rack mounting kit

Base Unit **S26361-K1425-V200**

Systemboard with

- 2x socket for Xeon E5-46xx processor
- Chipset Intel® C600 Series (Patsburg)
- 7 PCI-Express Slots
  - 4x PCIe 3.0 x8 (half lengt, full hight)
  - 2x PCIe 3.0 x16 (half length, full hight)
  - 1x PCIe 3.0 x8 (reserved for RAID 5/6 controller)
  - 1x PCIe 3.0 x8 (reserved for additional LAN options)
- 12 memory DIMMs per CPU => **Total 24 DIMMs for two CPU`s**
- SATA controller on-board (for ODD)
- iRMC S3 (integrated Remote Management Controller) with graphics controller and 10/100Mbit Service LAN-port
- Dual-Port 10/100/1000 GBit LAN Controller on-board
- ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates

Optional Mezzanine Bord with

- 2x socket for additional 3./4. Xeon E5-46xx processor
- 4x PCIe 3.0 x8 (half lengt, full hight)
- 12 memory DIMMs per CPU => **Total 48 DIMMs for four CPU`s**

Interfaces:

Front side
- 2x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup
- 1x VGA (15 pin) as option
- 1x Service-LAN RJ45 as option

Rear Side
- 2x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup
- 1x VGA (15 pin)
- 1x RS-232-C (serial, 9 pin)
- 2x LAN RJ45, 1x Service LAN RJ45

Internal
- 1x internal USB Interfaces for backup device
- 1x internal port for uSSD Module (Embedded vSphere ESXi 4.0)
- 1x USB 2.0 with 480MBit/s for dongle funcionality, no USB wakeup

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

S26361-F2735-E285
Rack Mount Kit F2-C S7 LV
telescopic rails, full extraction,
toolless mounting for RMK and CMA
consisting of
- 1 pair of drop-in rails with CMA Adapter
- lenth variable (559mm- 860mm)

1x per system

S26361-F4530-E13
Bracket 3U in asymmetrical racks

S26361-F4530-E10
Mounting of RMK in symmetrical racks
(no support brackets needed)

S26361-F2735-E71
Cable management
lateral f. PRIMECENTER Racks
- for asymmetrical FJ racks or PRIMECENTER racks not for 3rd party racks

1x per system

S26361-F2735-E82
Cable management arm 2U
for asym. and sym. racks
1x per system

S26361-F2735-E82
Cable management arm 2U
for asym. and sym. racks
1x per system

PRIMECENTER M1 Racks

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 Mount Kit F2-C S7 LV
length variable (559mm- 860mm)
for loose delivery
with CMA adapter
S26361-F2735-L285
without CMA adapter
S26361-F2735-L286

Sideways cable management arm
for mounting in asymmetrical FJ racks.
Has to be mounted above the RMK.
S26361-F2735-L7
Support bracket 3U S26361-F2735-L31
has to be ordered for loose delivery
S26361-F2735-L31

Cable management arm 2U
for asym. and sym. racks
S26361-F2735-L82

Cable management arm
for symetrical racks
Has to be mounted above the RMK.
S26361-F2201-L20

"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 46U PCR S2 this service has to be ordered, to get the mounting kits and the cables installed.

A

A

Section II Processor

S26361-F4570-E100	
CPU Mezzanine Card	
for 2 additional CPU´s & additional 24 DIMM Modules	
max. 1x per system	

If CPU Mezz. Card is ordered
two additional CPUs are required

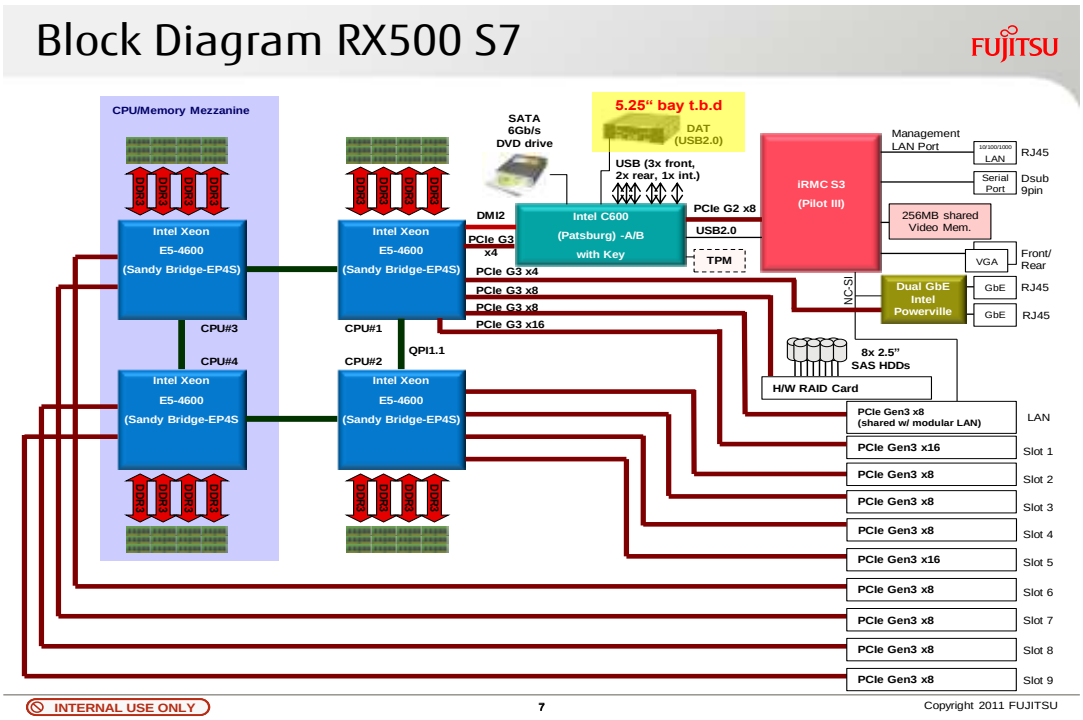
As minimum two CPU must be configured, as maximum 4 CPU´s are possible.
(no support of configurations with one or three CPU´s)
Optional CPU Mezzanine Card is required to install 4 CPU´s.

1x Intel Xeon processor E5-4600 series
incl. passive heat sink

Basic 4C/6C CPU's	
10/12MB Smart Cache; Hyper-Threading (HT); 1066 MHz DDR3 Bus; 6,40 GT/s QPI Bus	
1x Xeon E5-4603 4C/8T 2.00GHz 10MB 6.40GT/s 1066MHz 95W	**S26361-F4570-E603**
1x Xeon E5-4607 6C/12T 2.20GHz 12MB 6.40GT/s 1066MHz 95W	**S26361-F4570-E607**
Standard Turbo 6C/8C CPU's	
15/16MB Smart Cache; Hyper-Threading (HT); 1333 MHz DDR3 Bus; 7,20 GT/s QPI Bus	
1x Xeon E5-4610 6C/12T 2.40GHz 15MB 7.20GT/s 1333MHz 95W	**S26361-F4570-E610**
1x Xeon E5-4620 8C/16T 2.20GHz 16MB 7.20GT/s 1333MHz 95W	**S26361-F4570-E620**
Advanced Turbo+ 8C CPU`s	
20MB Smart Cache; Hyper-Threading (HT); 1600 MHz DDR3 Bus; 8,00 GT/s QPI Bus	
1x Xeon E5-4640 8C/16T 2.40GHz 20MB 8.00GT/s 1600MHz 95W	**S26361-F4570-E640**
1x Xeon E5-4650 8C/16T 2.70GHz 20MB 8.00GT/s 1600MHz 130W	**S26361-F4570-E650**
Frequency Optimized Turbo 4C CPU	
15MB Smart Cache 1600 MHz DDR3 Bus; 7,20 GT/s QPI Bus	
1x Xeon E5-4617 6C/6T 2.9GHz 15MB 7.20GT/s 1600MHz 130W	**S26361-F4570-E617**
Low Power Turbo 8C CPU	
20MB Smart Cache; Hyper-Threading (HT); 1600 MHz DDR3 Bus; 8,00 GT/s QPI Bus	
1x Xeon E5-4650L 8C/16T 2.60GHz 20MB 8.00GT/s 1600MHz 115W	**S26361-F4570-E649** On special release only

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**

Later upgrading to 4 processor system is also possible, but may require adding of PSU modules.
Extension CPUs must be identical to the already installed CPU´s.



B

B

Section III Memory

- **There are 12 memory slots per CPU for max.**
  => max. 1536GB for four CPU`s (384GB per CPU), using LRDIMM
- The memory area is divided into 4 channels per CPU with 3 slots per channel
  For detailed information, please check "Memory Configuraion Rules" chapter

Registered and LR DIMMs modules can be selected
Memory can be operated at 1.5V or 1.35V (BIOS setting, 1.5V is default)
In a 2 DIMMs per channel configuration, following frequencies are supported:
- 1.5V - 1600MHz max (depending on CPU)
- 1.35V - 1333MHz max (depending on CPU)

In a 3 DIMMs per channel configuration, memory will operate at 1.5V only.

1x per CPU

S26361-F3694-E10 Independent Mode
Requires min 1 memory Module per CPU.
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined.
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 timing (RAS latency, CAS latency, and so forth)

S26361-F3694-E1 Rank Sparing Mode Installation
Requires min 2x 1R/2R or 1x 4R modules per CPU (channel)
BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel.
The Spare Rank is held in reserve and is not available as system memory.
For effective capacity within a channel, please have a look to sheet "Effective Memory capacity / Rank Sparing Mode".

S26361-F3694-E2 Performance Mode Installation
Requires multiple of 4 identical modules to be configured per CPU
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.

S26361-F3694-E3 Mirrored Channel Mode Installation
Requires multiple of 4 identical modules to be configured per CPU.
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 per CPU contain active data (channel A, C / E, G), the remain two modules (channel B, D / F, H) contain the mirrored data

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

Note 1.)

12x per CPU, max. 3 modules per channel

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 per CPU
For performance reasons, we do not recommend to configure more than 8 DIMMs per CPU (2DPC)

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
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
32GB (1x32GB) 4Rx4 L DDR3-1333 LR ECC	S26361-F3698-E517

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

C

Memory Configuration PRIMERGY RX500 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 2 different kinds of DDR3 Memory Modules available: RDIMM and LRDIMM
Mix of RDIMM / LRDIMM is not alloved.

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

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

Capacity	Configuration		RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU		1x4GB	1x 16GB	with one CPU
Max. Memory per CPU	8/12 Modules / CPU		12x16GB	12x 32GB	with one CPU
Max. Memory per System	16/24 Modules / System		768GB	1536GB	if all CPUs are configured

Effective Memory capacity / Rank Sparing Mode, 1 Channel populated							
			RDIMM			LRDIMM	
			4GB 1R	8GB 2R	16GB 2R	16GB 4R	32GB 4R
1DPC			na	na	na	12GB	24GB
2DPC			4GB	12GB	28GB	28GB	56GB
3DPC			8GB	20GB	44GB	40GB	80GB

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)											
	RDIMM 1600MHz						LRDIMM 1333MHz					
Voltage setting (BIOS)	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
CPU with 1600MHz DDR3 Bus	1600	1600	1066	1333	1333	-	1600	1600	1066	1333	1333	-
CPU with 1333MHz DDR3 Bus	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	-

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

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

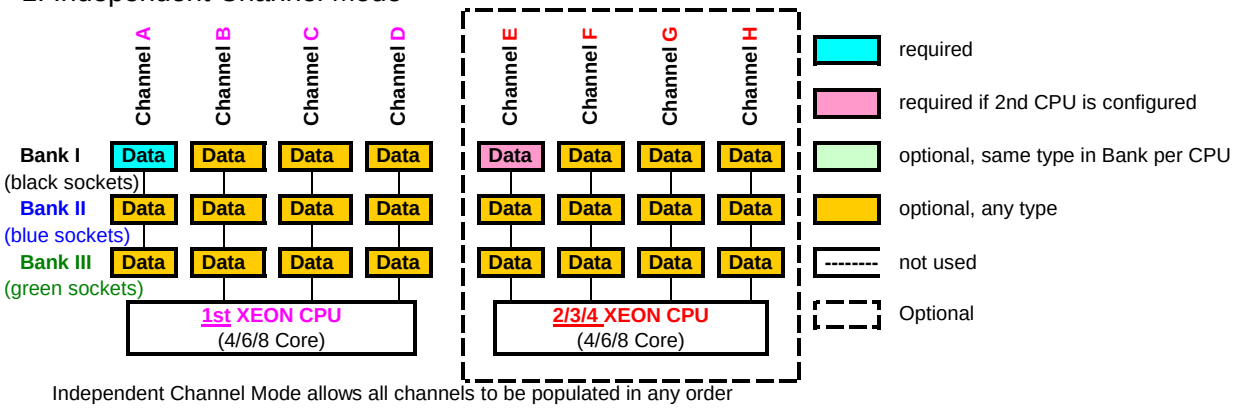
Configuration hints:

- 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 1/2/3/4 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU
  Bank II on CPU 1/2/3/4 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU
  Bank III on CPU 1/2/3/4 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU

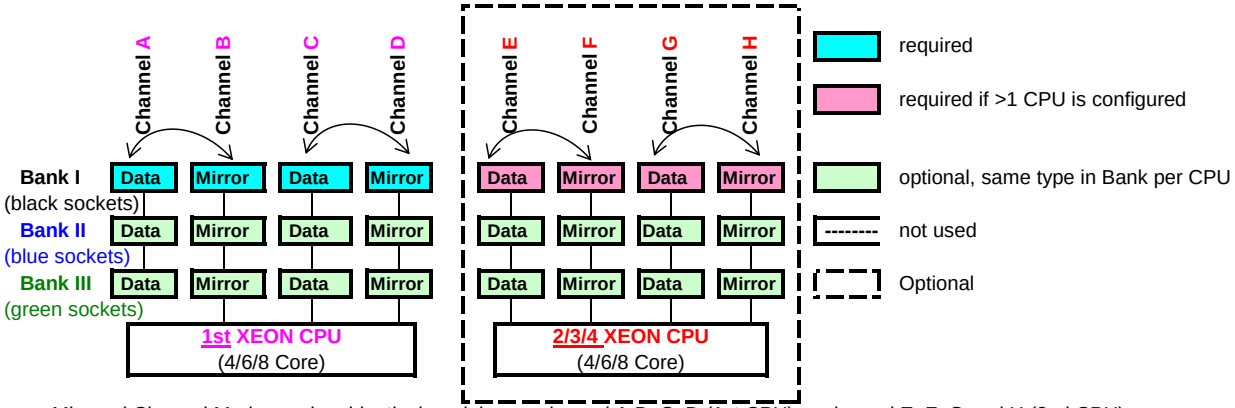
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



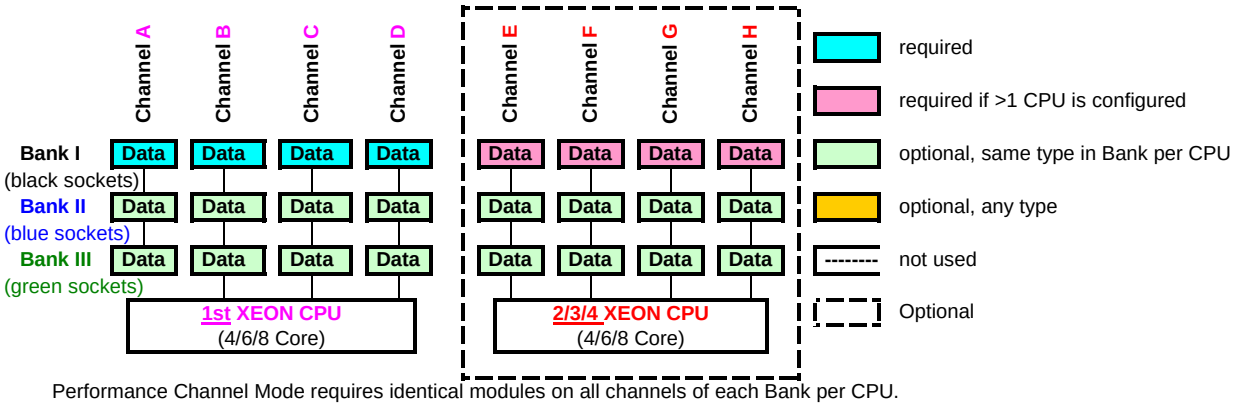
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



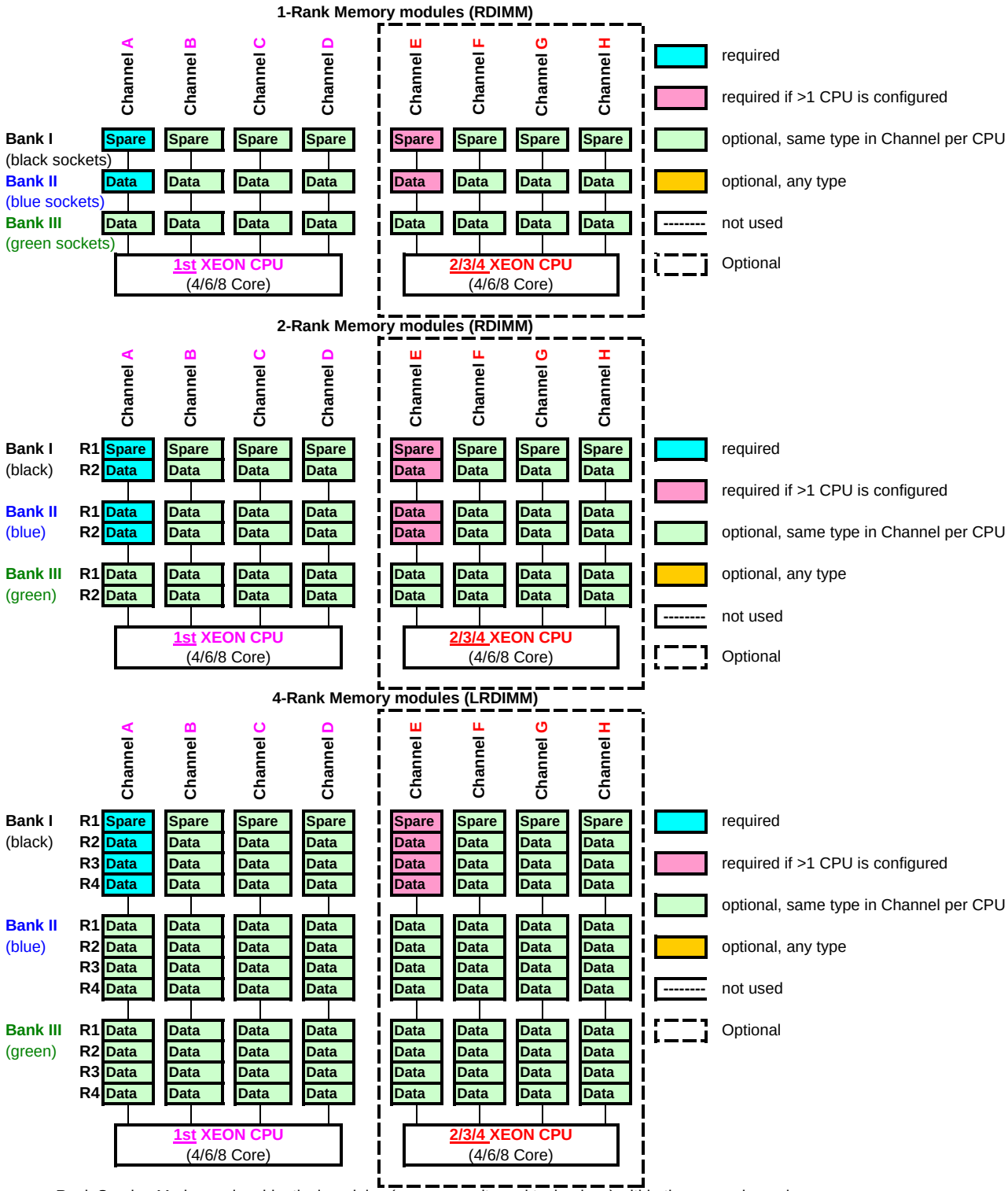
Mirrored Channel Mode requires identical modules on channel A,B, C, D (1st CPU) or channel E, F, G and H (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
If this mode is used, a multiple of 4 identical modules has to be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

3. Performance Channel Mode

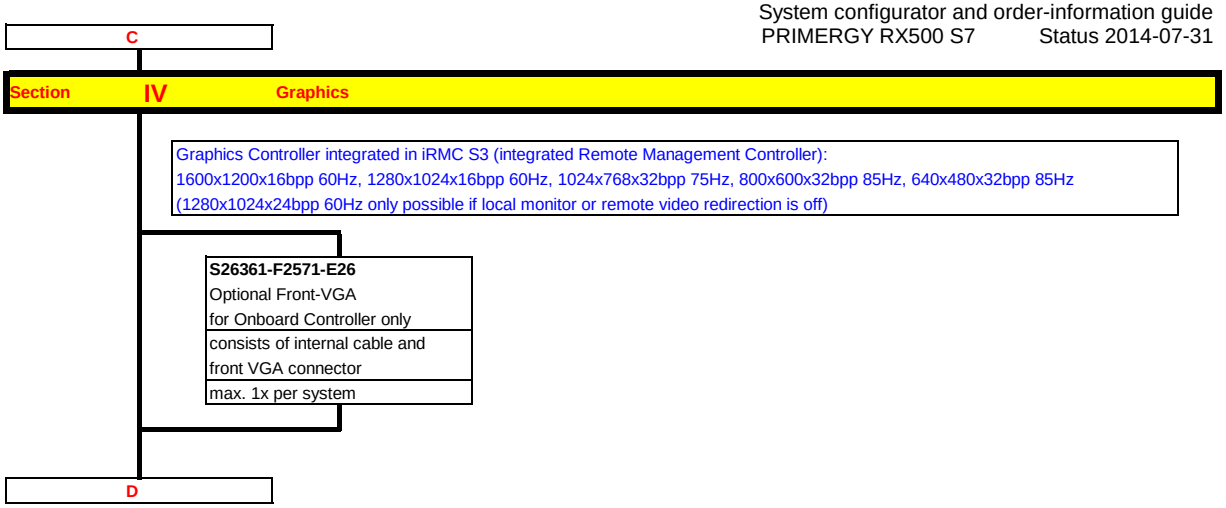


Performance Channel Mode requires identical modules on all channels of each Bank per CPU.
If this mode is used, a multiple of 4 identical modules has to be ordered.

4. Rank Sparing Mode



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


C
Section IV Graphics
Graphics Controller integrated in iRMC S3 (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-E26
Optional Front-VGA
for Onboard Controller only
consists of internal cable and
front VGA connector
max. 1x per system
D

D

Section V USB devices / optical devices / UFM

Setup RX500 S7 by SV Installation Manager is supported with following configurations:
built in CD/DVD or USB CD/DVD, no Floppy disk drive:
UNC Network share reachable

If installation is done locally, make sure you have USB stick available for driver installation.

1x

S26361-F3641-E2	S26361-F3269-E2
Blu-ray Triple Writer slim SATA	DVD-RW supermulti slim SATA
4x BD-RW, 8x DVD, 24x CD	all formats, DUAL/DL, DVD-RAM
BD DL and all CD/DVD formats	only W2K, W3K and Linux
0.5 x 5.25", black bezel	0.5 x 5.25", black bezel
max. 1x per system	max. 1x per system

Section VI Disk Drives / SSD´s

Disk Drive 2.5"

max. 8x

HDD 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	
1,2TB 10000rpm,<4,5ms, 64MB Cache	S26361-F5247-E112	as soon as available
146GB 15krpm,<4,5ms, 8MB Cache	S26361-F4482-E514	
300GB 15krpm,<4,5ms, 8MB Cache	S26361-F4482-E530	
500GB 7.2krpm,<9,5ms, 64MB Cache	S26361-F5228-E500	
1TB 7.2krpm,<9,5ms, 64MB Cache	S26361-F5228-E100	
max. 8x per system		

configuration of SAS-HDDs requires SAS RAID controller

Solid State Disk, Mainstream Endurance*

max. 8x

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray		
100GB MLC, Mainstream Perfomance	S26361-F5225-E100	as long as stock
200GB MLC, Mainstream Perfomance	S26361-F5225-E200	as long as stock
400GB MLC, Mainstream Perfomance	S26361-F5225-E400	as long as stock
100GB, Mainstream Performance	S26361-F5303-E100	as soon as available
200GB, Mainstream Performance	S26361-F5303-E200	as soon as available
400GB, Mainstream Performance	S26361-F5303-E400	as soon as available
800GB, Mainstream Performance	S26361-F5303-E800	as soon as available
SSD SAS 6Gb/s SLC 2.5" with hot plug/hot replace tray		
100GB SLC, Enterprise Perfomance	S26361-F4541-E100	as long as stock
400GB SLC, Enterprise Perfomance	S26361-F4541-E400	as long as stock
SSD SAS 6Gb/s MLC 2.5" with hot plug/hot replace tray		
100GB MLC, Enterprise Perfomance	S26361-F4581-E100	as long as stock
200GB MLC, Enterprise Perfomance	S26361-F4581-E200	as long as stock
400GB MLC, Enterprise Perfomance	S26361-F4581-E400	as long as stock
SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray		as soon as available
200GB, Enterprise Performance	S26361-F5297-E200	
400GB, Enterprise Performance	S26361-F5297-E400	Interface SAS12Gb/s and SAS 6Gb/s.
800GB, Enterprise Performance	S26361-F5297-E800	SAS 12Gb/s support is not released
1.6TB, Enterprise Performance	S26361-F5297-E160	
max. 8x per system		

*) SSD Mainstream Endurance 10DWPD over 5y

PCIe SSD (occupies PCIe slot)

max. 2x

S26361-F4522-E781	S26361-F4522-E121
PCIe-SSD 785GB MLC	PCIe-SSD 1,2TB MLC
ioDrive2 785GB	ioDrive2 1.2 TB
PCIe 2.0	PCIe 2.0
PCIe x4, Low Profile	PCIe x4, Low Profile
max. 2 per system	max. 2 per system

loose delivery: S26361-F4522-L781/L121

F

F

Section VII Tapes devices

1x

A) RDX USB Drive (connectet to internal USB port)

as long as available

S26361-F3857-E4
RDX drive USB 5.25" internal
80-320GB, 25MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
without RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system

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

USB 3.0 adapter

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

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

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

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

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

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

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

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

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

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

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

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

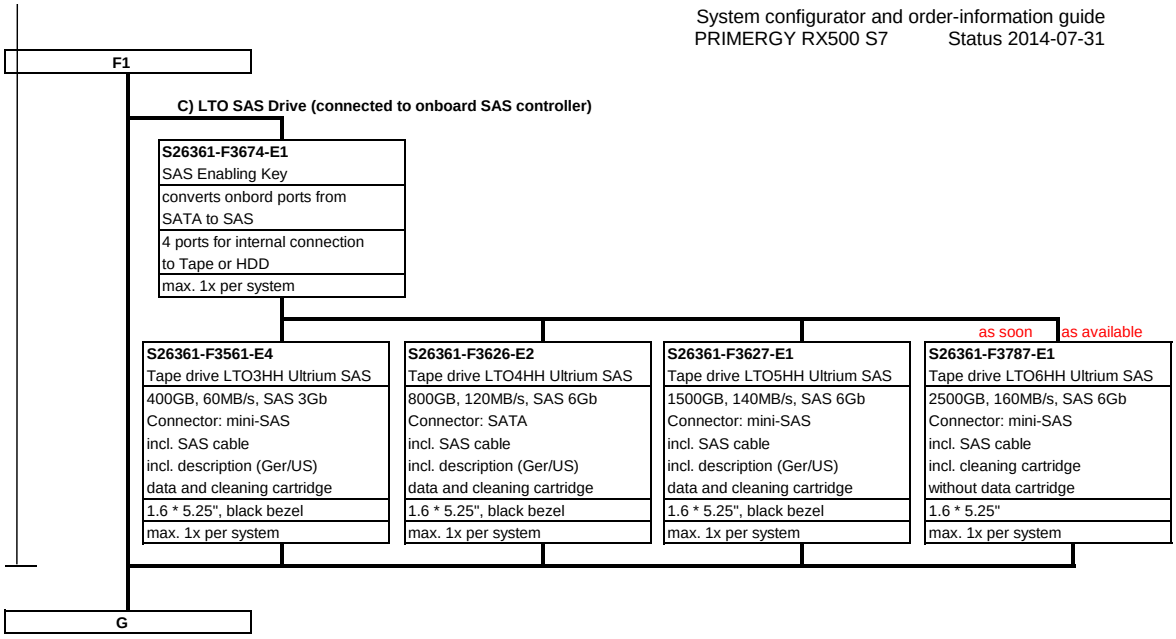
The bundle is also available as optional (loose) delivery
S26361-F3750-L604 with USB3.0 cable for adapter card.
The USB3.0 Adapter card or the USB2.0 cable set
S26361-F3750-L20 must be ordered with the drive!

B) DDS USB Drive (connectet to internal USB port)

S26361-F3324-E4
Tape drive DDS Gen5 USB 5.25"
36GB, 3MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system

S26361-F3325-E4
Tape drive DDS Gen6 USB 5.25"
80GB, 6MB/s, USB 2.0
Connector: USB "B"
with USB cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system

F1


F1
C) LTO SAS Drive (connected to onboard SAS controller)
S26361-F3674-E1
SAS Enabling Key
converts onbord ports from SATA to SAS
4 ports for internal connection to Tape or HDD
max. 1x per system
as soon
as available
S26361-F3561-E4
Tape drive LTO3HH Ultrium SAS
400GB, 60MB/s, SAS 3Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3626-E2
Tape drive LTO4HH Ultrium SAS
800GB, 120MB/s, SAS 6Gb
Connector: SATA
incl. SAS cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3627-E1
Tape drive LTO5HH Ultrium SAS
1500GB, 140MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. description (Ger/US)
data and cleaning cartridge
1.6 * 5.25", black bezel
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
G

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Section VIII internal SAS RAID Controller for HDD´s/ SSD´s

On board SATA Controller can be used with up to 4x 2.5" SATA SSDs with RAID 0/1 functionality
(no additional controller required)
For connection of SAS Tape devices a SAS Enabling Key is required

For all other HDD configurations a 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
SAS Enabling Key
converts **onbord** ports from SATA to SAS
RAID 0, 1 & 10
no controller cache
4 ports for internal connection to Tape
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

1x

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 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-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 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

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

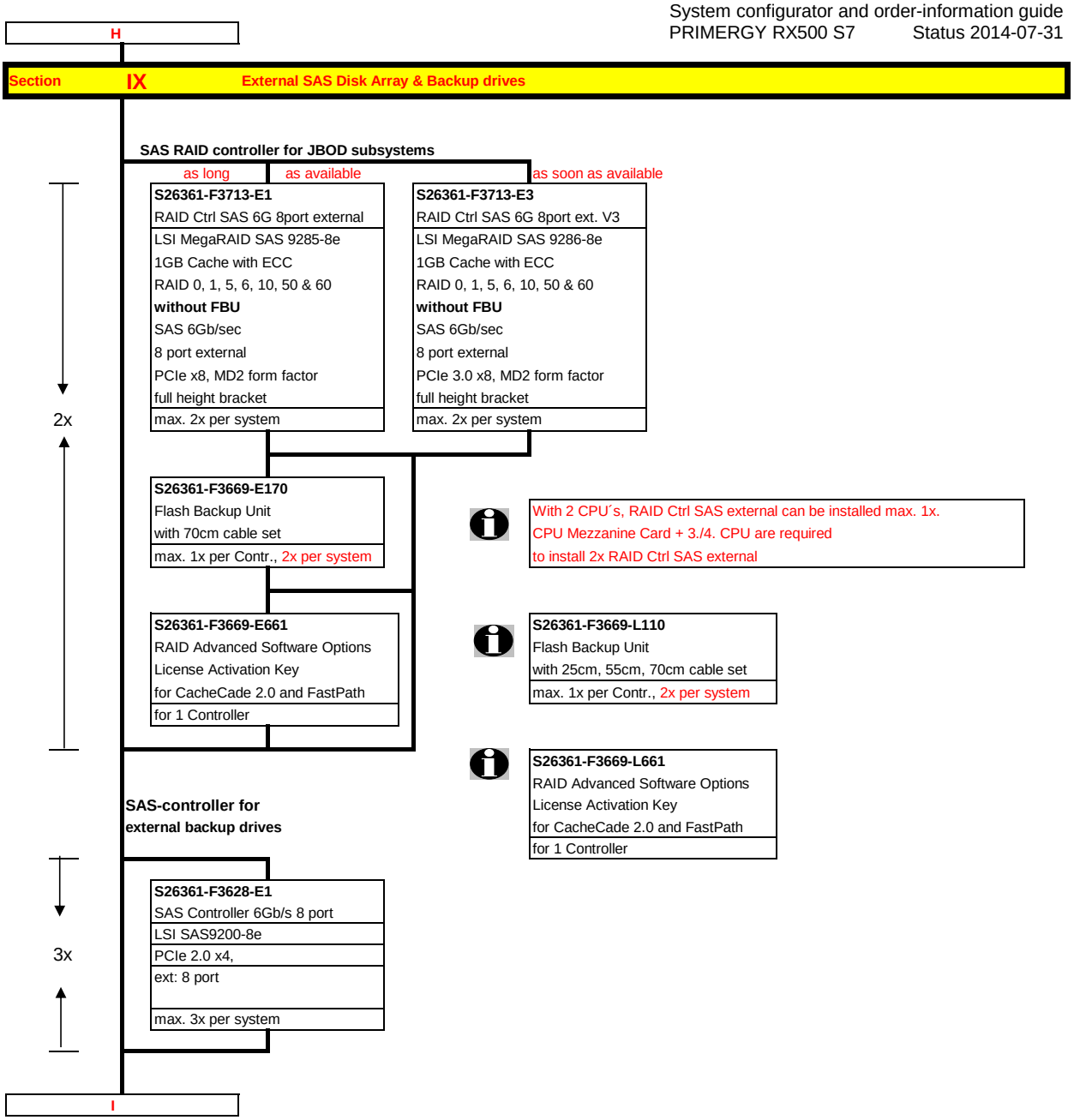
S26361-F3669-E100
TFM Module for FBU option
max. 1x per Controller

The FBU is an option for the controller which can be used once per controller. If the FBU option has been choosen, the TFM Module is needed once per FBU.

S26361-F3669-E170
Flash Backup Unit with 70cm cable set
max. 1x per Contr., 2x per system

S26361-F3669-L110
Flash Backup Unit with 25cm, 55cm, 70cm cable set
max. 1x per Contr., 2x per system

H


H
Section IX External SAS Disk Array & Backup drives
SAS RAID controller for JBOD subsystems
as long
as available
as soon as available
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. 2x 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. 2x per system
2x
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Contr., 2x per system
With 2 CPU´s, RAID Ctrl SAS external can be installed max. 1x.
CPU Mezzanine Card + 3./4. CPU are required
to install 2x RAID Ctrl SAS external
S26361-F3669-E661
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
S26361-F3669-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set
max. 1x per Contr., 2x per system
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
PCIe 2.0 x4,
ext: 8 port
max. 3x per system
I

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Section X Fibre Channel

Fibre Channel Controller for external storage systems

4x

S26361-F3631-E1	**S26361-F3631-E2**
8GBit/s FC Controller	8GBit/s FC Controller
Qlogic	Qlogic
QLE2560, full height bracket	QLE2562, full height bracket
1 channel 8GBit/sec FC Controller	2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe x8, 170mm	PCIe x8, 170mm
max. 4x per system	max. 4x per system

No mix and match of FC / CNA controller from different vendors

loose delivery:
Single channel S26361-F3631-L1
Dual Channel S26361-F3631-L2
with mounted LP bracket
FH bracket is not included

S26361-F3961-E1	**S26361-F3961-E2**
8GBit/s FC Controller	8GBit/s FC Controller
Emulex	Emulex
LPe1250, full height bracket	LPe12002, full height bracket
1 channel 8GBit/sec FC Controller	2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe x4, 170mm	PCIe x4, 170mm
max. 4x per system	max. 4x per system

loose delivery:
Single channel S26361-F3961-L201
Dual Channel S26361-F3961-L202
with mounted LP bracket
FH bracket is not included

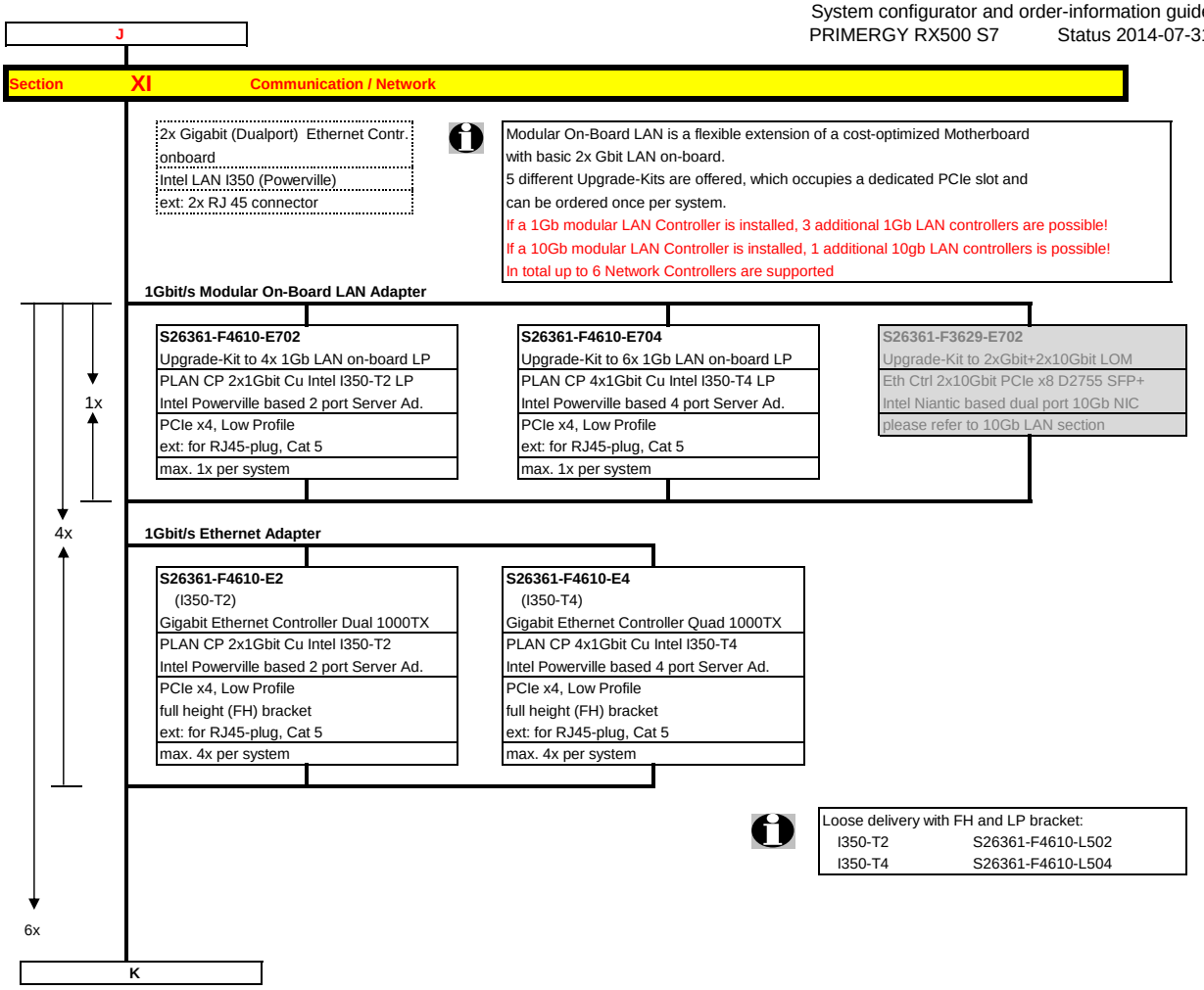
S26361-F4994-E1	**S26361-F4994-E2**
16GBit/s FC Controller	16GBit/s FC Controller
Emulex	Emulex
LPe16000, low profile bracket	LPe16002, low profile bracket
1 channel 16GBit/sec FC Contr.	2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe x8, 170mm	PCIe x8, 170mm
max. 8x per system	max. 8x per system

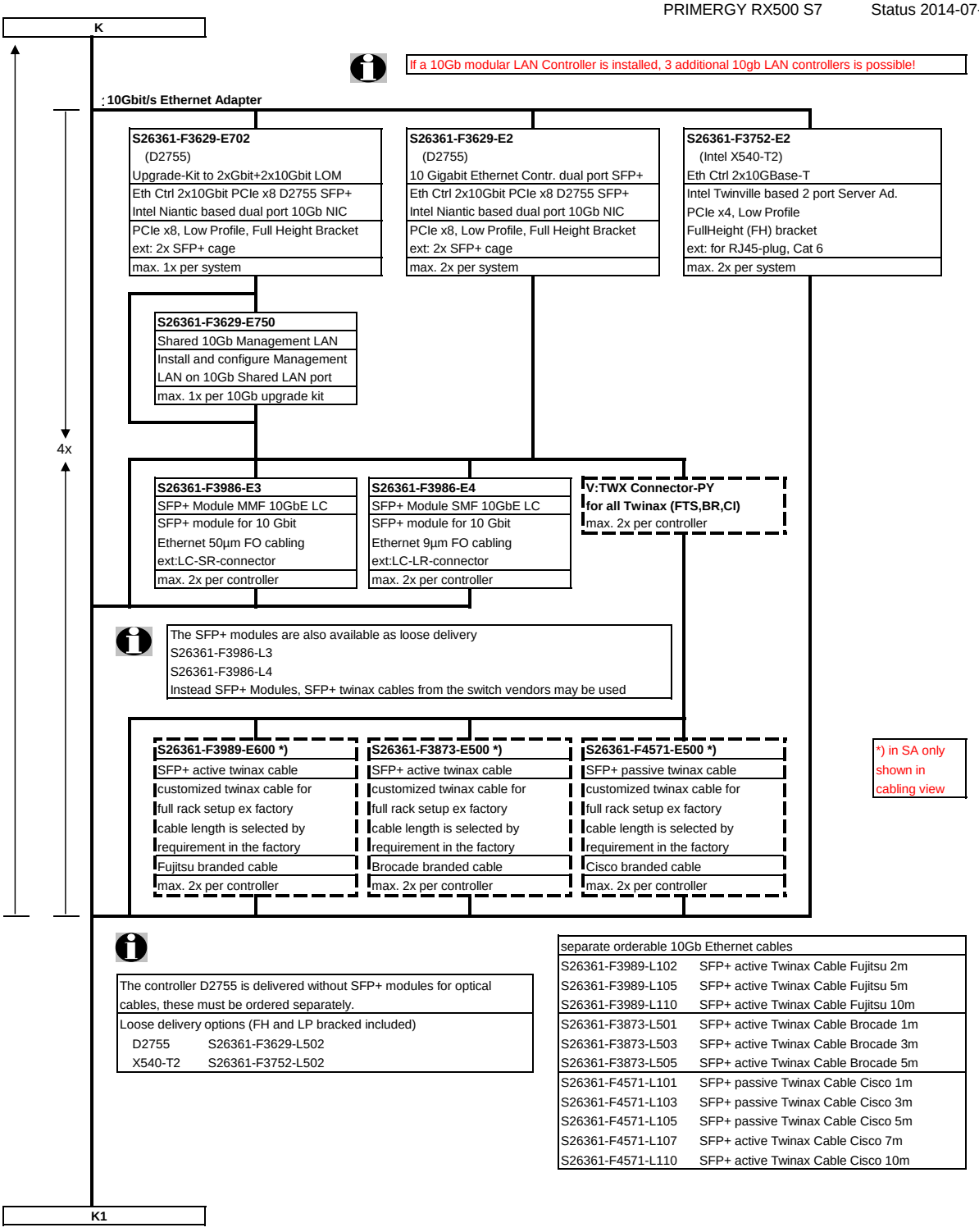
loose delivery:
Single channel S26361-F4994-L501
Dual Channel S26361-F4994-L502
contains LP and FH brackets.

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.

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

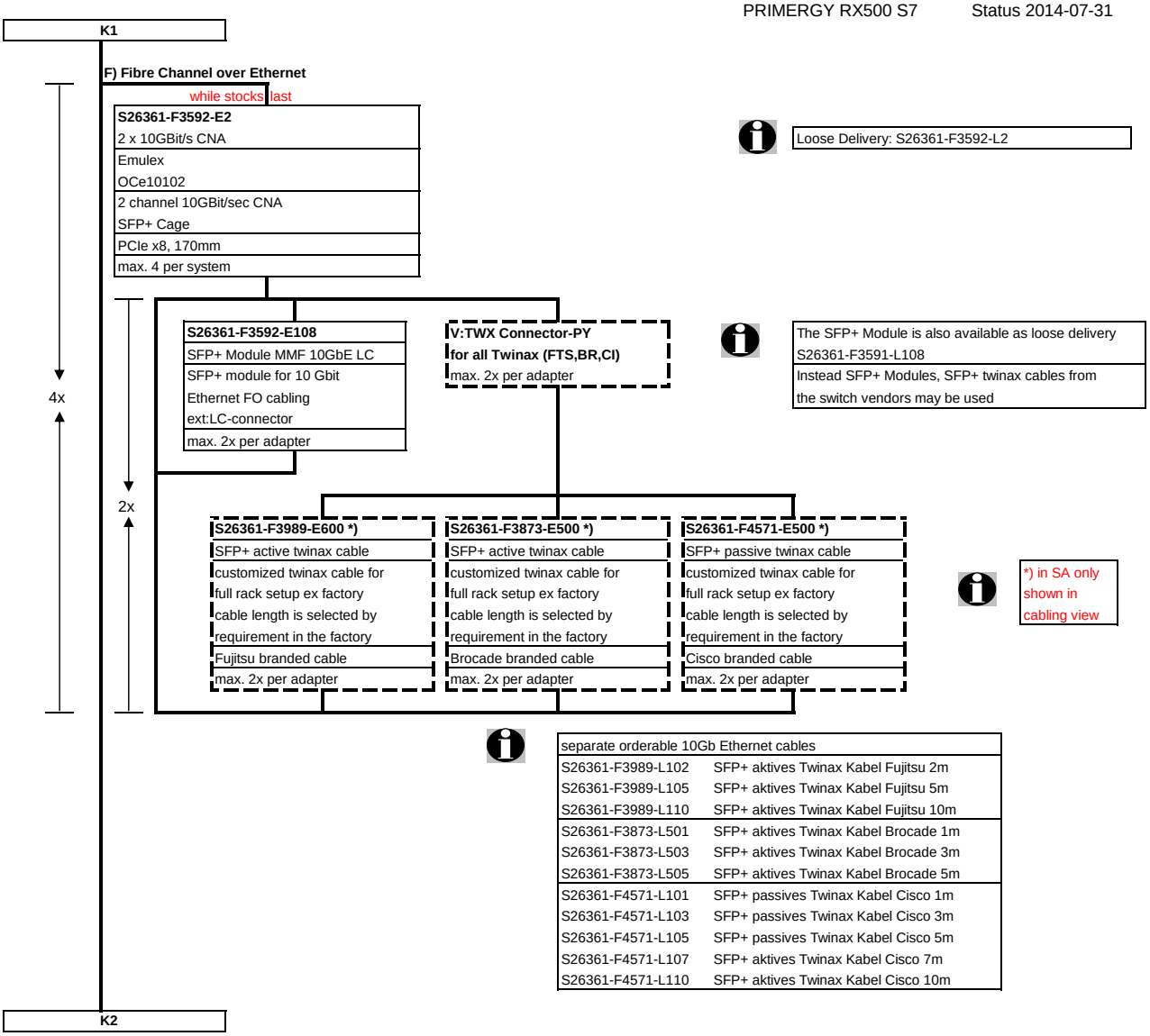
J


J
Section XI 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 1Gb modular LAN Controller is installed, 3 additional 1Gb LAN controllers are possible!
If a 10Gb modular LAN Controller is installed, 1 additional 10gb LAN controllers is possible!
In total up to 6 Network Controllers are supported
1Gbit/s 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
please refer to 10Gb LAN section
4x
1Gbit/s Ethernet Adapter
S26361-F4610-E2
(I350-T2)
Gigabit Ethernet Controller Dual 1000TX
PLAN CP 2x1Gbit Cu Intel I350-T2
Intel Powerville based 2 port Server Ad.
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system
S26361-F4610-E4
(I350-T4)
Gigabit Ethernet Controller Quad 1000TX
PLAN CP 4x1Gbit Cu Intel I350-T4
Intel Powerville based 4 port Server Ad.
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
6x
K

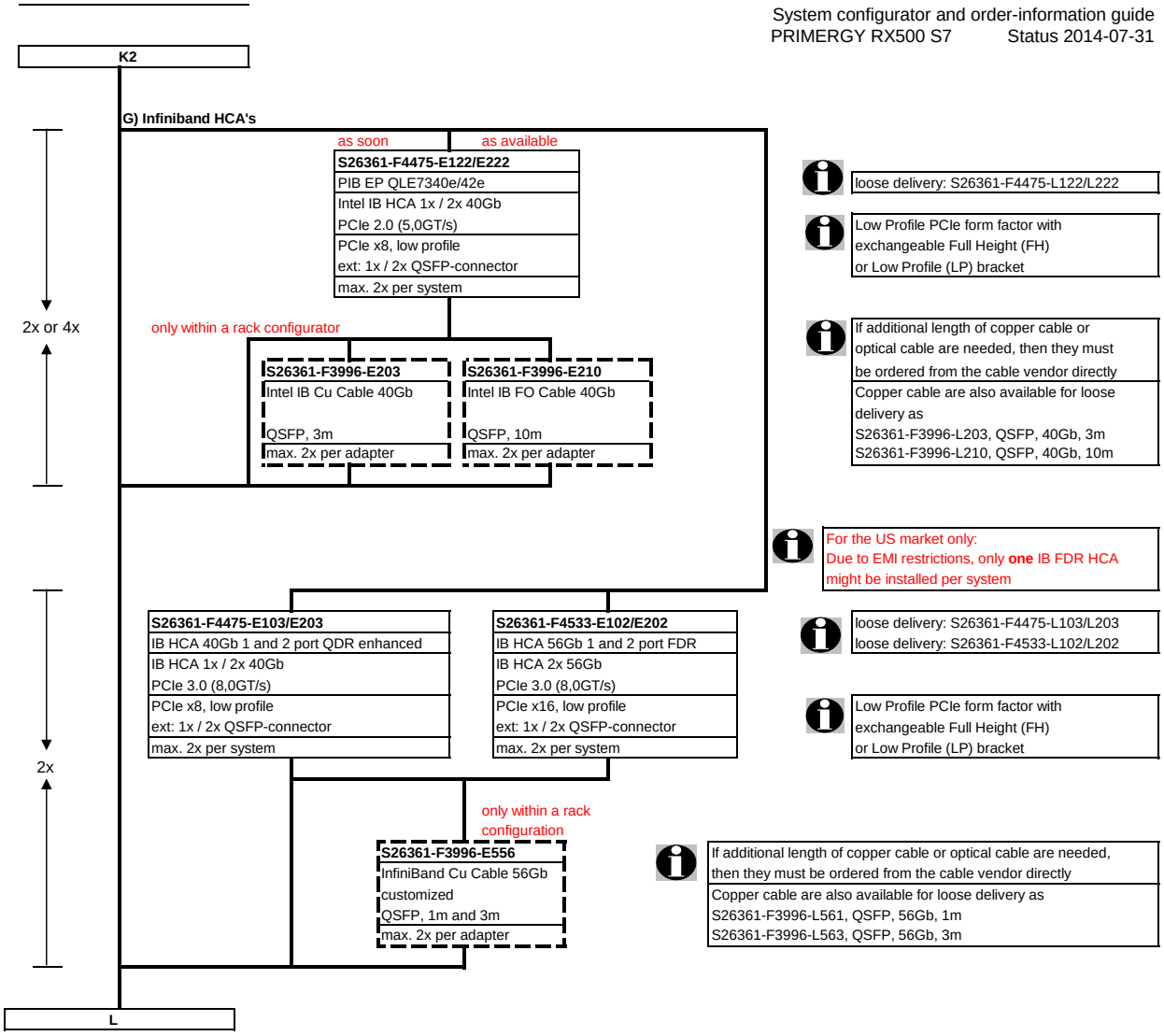


The controller D2755 is delivered without SFP+ modules for optical cables, these must be ordered separately.	
Loose delivery options (FH and LP bracked included)	
D2755	S26361-F3629-L502
X540-T2	S26361-F3752-L502

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



separate orderable 10Gb Ethernet cables	
S26361-F3989-L102	SFP+ aktives Twinax Kabel Fujitsu 2m
S26361-F3989-L105	SFP+ aktives Twinax Kabel Fujitsu 5m
S26361-F3989-L110	SFP+ aktives Twinax Kabel Fujitsu 10m
S26361-F3873-L501	SFP+ aktives Twinax Kabel Brocade 1m
S26361-F3873-L503	SFP+ aktives Twinax Kabel Brocade 3m
S26361-F3873-L505	SFP+ aktives Twinax Kabel Brocade 5m
S26361-F4571-L101	SFP+ passives Twinax Kabel Cisco 1m
S26361-F4571-L103	SFP+ passives Twinax Kabel Cisco 3m
S26361-F4571-L105	SFP+ passives Twinax Kabel Cisco 5m
S26361-F4571-L107	SFP+ aktives Twinax Kabel Cisco 7m
S26361-F4571-L110	SFP+ aktives Twinax Kabel Cisco 10m


K2
G) Infiniband HCA's
as soon
as available
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-L122/L222
Low Profile PCIe form factor with
exchangeable Full Height (FH)
or Low Profile (LP) bracket
2x or 4x
only within a rack configurator
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-L203, QSFP, 40Gb, 3m
S26361-F3996-L210, QSFP, 40Gb, 10m
For the US market only:
Due to EMI restrictions, only one IB FDR HCA
might be installed per system
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
2x
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
L

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Section XII System Management Products (RemoteView) / Mainatenance LAN / TPM

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-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-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

M

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Section XIII PSU / Power cords / Region kit

For min. configuration one power supply has to be selected
For basic redundancy at least 2 PSUs have to be configured
If phase redundancy/dual power feed is requested two additional PSU´s needed. (2+2 redundancy).

4x

S26113-F574-E11	S26113-F574-E99 *
Power supply 800W new rev. platinum (hot plug)	**Power Supply Dummy**
occupies one bay for hot plug power supply	occupies one bay for hot plug power supply
max. 4x per system	max. 3x per system

***For order completeness only**
Will be added automaticly with System Architect Version ≥ V9.3

For later upgrades the following kit is available:	
1x power supply module 800W hot plug: Supplementary module	**S26113-F574-L11**
Attention: There is no power cable included!	

S26361-F3301-E123
Certification for India

For shipments to India mandatory!

Hint: No country specific powercord configurable with Certification for India

max. 4 x

Power cord options (1x per PSU)

T26139-Y1968-E100	Powercord for rack, 4m, grey, **IEC 320 C14->C13 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

Power cord has to 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

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 RX500 S7

Change Report

Date	Order number	Changes
2014-06-30	S26361-F3301-E123	Added certification for India
2014-06-16	S26361-F3592-E2	phase out OCe10102
2014-06-16	S26361-F3739-xxx	EOL D3045
2014-06-16	S26361-F3740-xxx	EOL D3035
2014-06-16	S26361-F3242-xxx	EOL Sheepshead Bay
2014-03-19	S26361-F4610-E4	added Intel I350-T4
2014-03-19	S26361-F4610-E2	added Intel I350-T2
2014-03-18	S26361-F3739-E201	phase out
2014-03-18	S26361-F3740-E201	phase out
2014-03-18	S26361-F3610-E202	EOL
2014-02-26	S26361-F4475-E102/L102	IB HCA 40Gb 1 port QDR" removed
2014-01-31	S26361-F5247-E112	New 1.2TB 2.5" SAS 10K HDD added
2014-01-31	S26361-F5303-*	New SATA SSDs added
2014-01-31	S26361-F5297-*	New SAS SSDs added
2013-10-18	Optional USB Comps	no longer available
2013-05-22	S26361-F3669-E3	RAID Ctrl SAS 6G 8port internal (V3) released
2013-07-05	S26361-F3713-E3	RAID Ctrl SAS 6G 8Port ex 1GB LSI V3
2013-04-23	S26361-F3629-E2	Number of D2755 reduced to two
2013-03-25	S26361-F3669-E661/L661	RAID advanced SW options added - for RAID Ctrl SAS 6G 8port external
2013-03-25	S26361-F3669-E660/L660	RAID advanced SW option added - for RAID Ctrl SAS 6G 1GB (D3116C)
2013-03-25	S26361-F3669-E3	RAID Ctrl SAS 6G 1GB (D3116C) added
2013-03-15	S26361-F3750-E324/504/E604	RDX & Cartridge bundles added
2013-02-26	S26361-F5228-E500/E100	2.5" BC-SAS 500GB/1TB added
2012-12-18	S26361-F4475-E102/E202	number of controller reduced to max. 2x
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-Exx	Added USB3.0 Adapter
2012-10-08	S26361-F3750-Ex	Added RDX Drive
2012-09-28	S26361-F4541-E200	EOL: 200GB SSD SAS SLC
2012-09-21	S26361-F3740-E1/701 S26361-F3739-E1/701	added new LAN Controller (D3035 / D3045) incl. LAN upgrade kits
2012-09-21	S26361-F4522-Exxx	release of PCIe-SSD´s
2012-07-25	S26361-F4581-Exxx	Add SSD SAS MLC
2012-07-13	S26361-F3857-L160/L169	RDX Cartridge 160GB is EOL => removed
2012-07-01		First Release