

# PRIMERGY RX2540 M1

## *System configurator and order-information guide*

July 2017

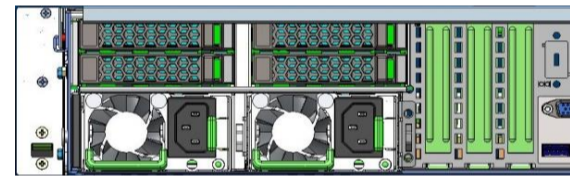
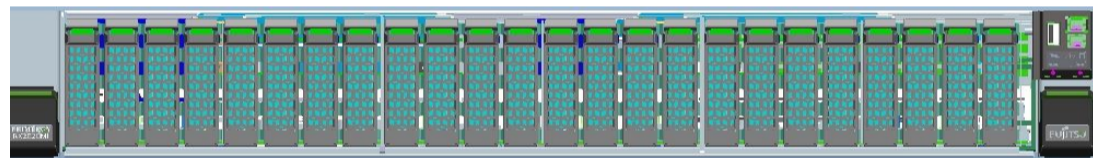
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### Change report

## PRIMERGY Server

# Instructions

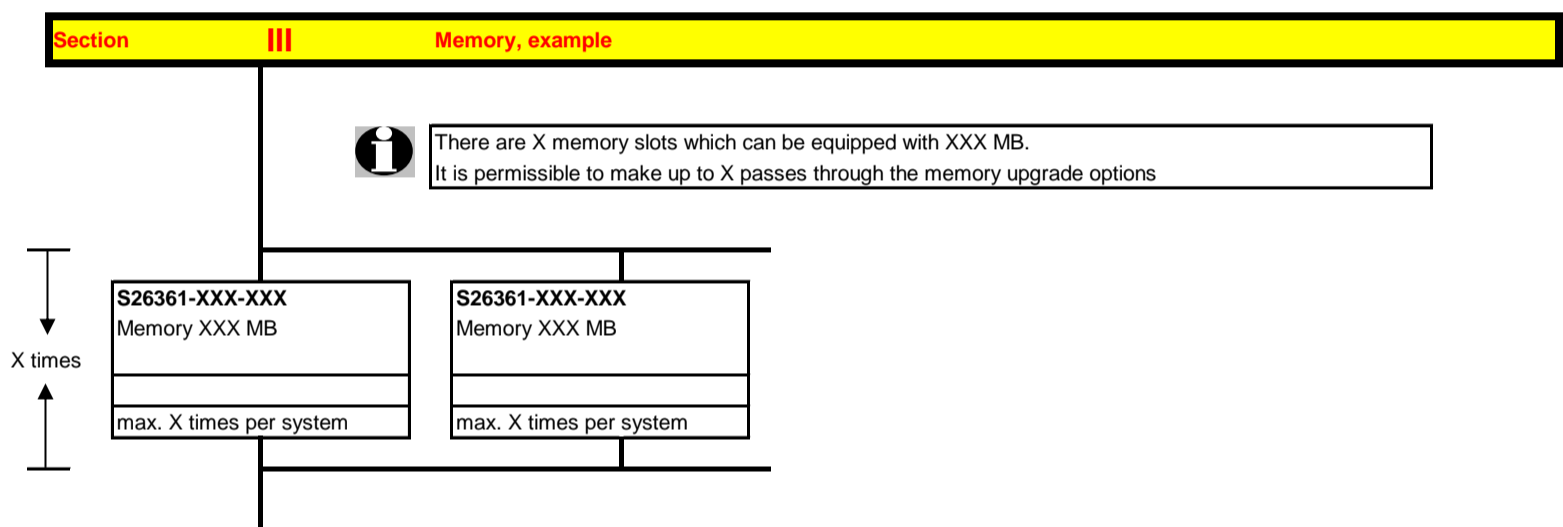
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect.

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

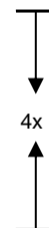
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/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:

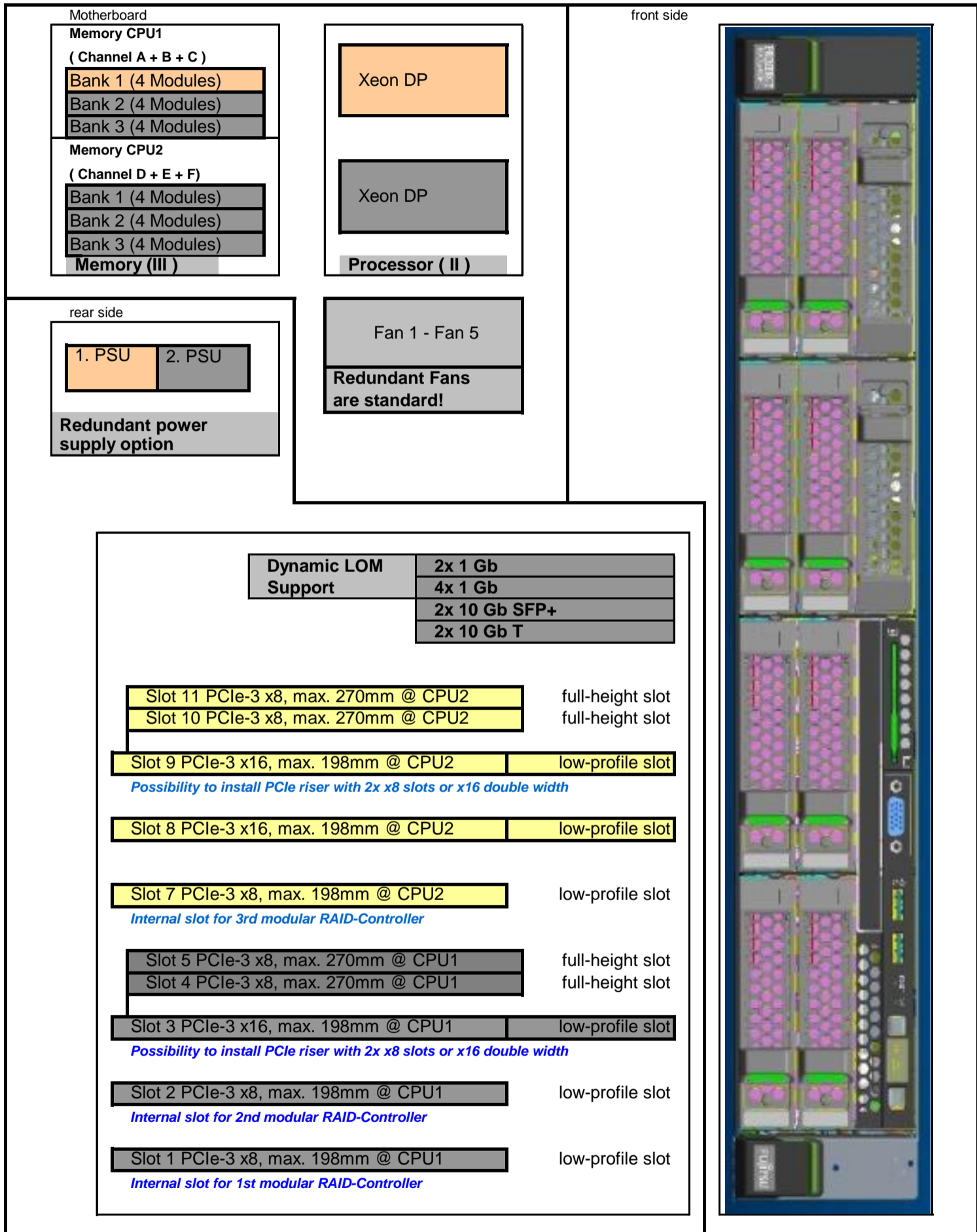
[http://ts.fujitsu.com/products/standard\\_servers/inc](http://ts.fujitsu.com/products/standard_servers/inc) (internet)

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

## Configuration diagram PRIMERGY RX2540 M1 LFF

### System unit ( I )

with up to 4x, 8x or 12x 3.5" Hard disk drives (detailed front configuration see section Va)



Key:



Included in basic unit



Option

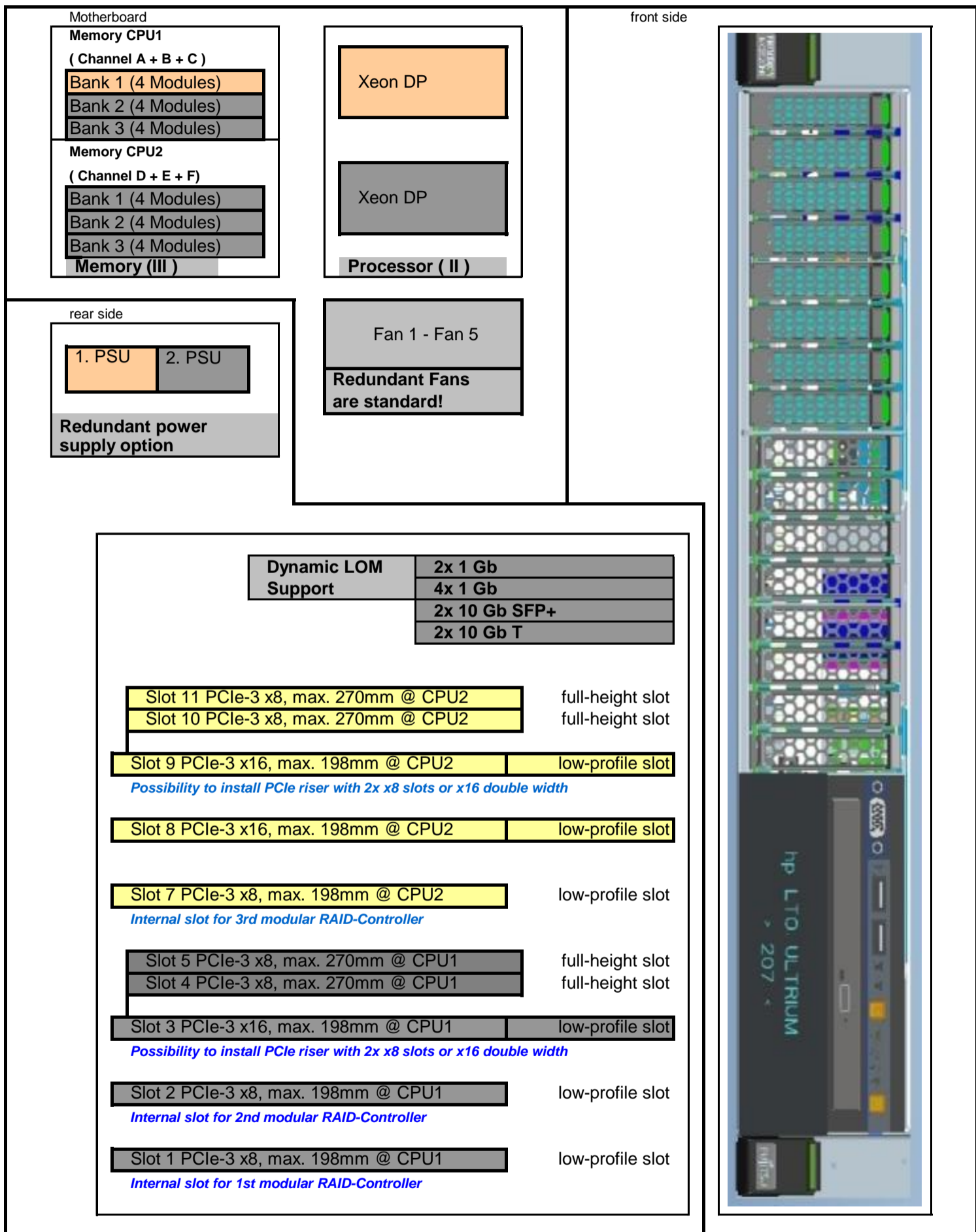


One CPU, one memory per CPU and one PSU has to be selected for an orderable basic unit.

## Configuration diagram PRIMERGY RX2540 M1 SFF

### System unit ( I )

with up to 8x, 16x or 24x 2.5" Hard disk drives (detailed front configuration see section Va)



Key:



Included in basic unit



Option



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


**System unit consisting of:**

\* 2U Housing without power supply modules

\* Basic units with:

- 2 Hot-Plug Power Supply Bays
- 5 Fans (full redundancy)
- 12 memory DIMMs per CPU ( max 768GB ) => Total 24 DIMMs ( max 1536GB ) for two CPU`s  
as soon as available: max 3072GB per system with two CPU`s

\* SAS Backplanes for 4x, 8x or 12x 3.5" HD LFF or for 8, 16 or 24x 2.5" HD SFF or PCIe SFF backplanes with cable connection to on-board, modular RAID Controller or PCIe Switch

\* Drives/Bays

- 4, 8 or 12 bays 1" for hot plug 3.5" HD (1" high) or 8, 16 or 24 bays for hot plug 2.5" HD
- 1 bay SATA-DVD-RW 0,4" height (option, not for basic unit with 12x 3.5" HD and with 24 x 2,5" HD)
- 1 bay for 5.25" and 1.6" high Backup device, not possible for basic units with 3.5" HD and for basic unit with 24 x 2,5" HD

\* Integrated ServerView Diagnostics Technology ( Diagnosis LED`s ) for indication of internal failed components

**Systemboard D3289 with:**

\* Up to two Xeon DP CPU`s (Socket-R3)

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® C610 Series (codenamed Wellsburg)

\* 6 PCI slots low profile: - 3x PCIe-3 x16 (2 slots are connected to CPU 2 and are useable with configured 2nd CPU only!)  
- 2x PCIe-3 x8 (notched to install x16 cards, 1 slot is connected to CPU 2)  
- 1x PCIe-3 x8 (may be used for modular RAID controller)

8 PCI slots are possible with PCIe riser card options (4x full height, please see Section VII)

\* 24 memory slots (each CPU 12 slots) DDR4 are available

- Memory is divided into 12 DIMMs per CPU ( 4 channels with 3 slots per channel )  
First Memory ( one module ) has to be selected for an orderable basic unit per CPU

\* Dynamic LOM

Quad Port 1Gb/10Gb Emulex Controller XE104 (Skyhawk) on motherboard  
up to Quad Port 1Gb or

Dual Port 10Gb NIC plus full CNA functionality with iSCSI-, FCoE- RDMA and UMC support  
connectors (external interfaces) are added by different variants of DynamicLoM interface modules  
The Service LAN-port can be switched alternatively to a standard LAN (port 1)

\* iRMC S4 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100/1000 Service LAN-port and integrated graphics controller.

\* Graphics Controller integrated in iRMC S4 (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)

**Interfaces at the rear:**

- \* 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared) **optional**
- \* 1x VGA (15 pins)
- \* 2x USB 3.0 ( UHCI ) with 5 GBit/s, no USB wakeup
- \* 2x USB 2.0 ( UHCI ) with 480MBit/s, no USB wakeup
- \* 2x or 4x LAN 1Gb RJ45 or 2x LAN 10 Gb SFP+ or RJ45, 1x Service-LAN RJ45

**Interfaces on the front:**

- \* 2x USB 3.0 ( UHCI ) with 5 GBit/s, no USB wakeup (only 1x USB 2.0 for basic unit with 12x 3.5" HD and with 24 x 2,5" HD)
- \* 1x VGA (15 pins) as an option (not for basic unit with 12x 3.5" HD and with 24 x 2,5" HD)

**Interfaces internal:**

- \* 1 port for UFM Module
- \* 1 port for backup device USB3.0 (USB 3.0 Type A Connector)
- \* 1x SATA 3Gbit interface for ODD
- \* 1x SATA 3Gbit for DOM
- \* 8x SATA 3Gbit interface for 8 SATA HD

**Software:**

- \* ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates
- \* Documentation engl. (multilingual on CD)

A

**Cables included in basic unit**

Connections	Cable	PRIMERGY RX2540 M1
1. SATA ODD		
2. SAS cables to HDDs		
3. 1x cable for SAS signaling		

◎ SAS  
 ○ SATA

Note: Rack Mounting kit and Power Cord for RX2540 M1 is not included in the basic unit and has to be configured separately

Rack version for 19" racks with <b>No PSU included in Base Unit</b>	
Basic unit is without CPU and Memory For an orderable basic unit one CPU = first CPU and one memory = first memory has to be selected	
Basic unit with	
3.5" HDD bays <b>expandable</b>	S26361-K1495-V101
3.5" HDD bays <b>exp long lifecycle</b>	S26361-K1495-V102 <b>planned</b>
12x 3.5" HDD bays	S26361-K1495-V112
Basic unit with	
2.5" HDD bays <b>expandable</b>	S26361-K1495-V401
2.5" HDD bays <b>exp long lifecycle</b>	S26361-K1495-V402
24x 2.5" HDD bays	S26361-K1495-V424

<b>S26113-F575-E13</b> 450W PSU module platinum 1st or 2nd PSU for redundancy 94% efficiency (platinum) uses hot plug PSU slot min. 1 / max. 2x per system	<b>S26113-F574-E13</b> 800W PSU module platinum 1st or 2nd PSU for redundancy 94% efficiency (platinum) uses hot plug PSU slot min. 1 / max. 2x per system	<b>S26113-F616-E10</b> 1200W PSU module platinum 1st or 2nd PSU for redundancy 94% efficiency (platinum) 110V range: 1000W, <110V:900W uses hot plug PSU slot min. 1 / max. 2x per system	<b>S26113-F615-E10</b> 800W PSU module titanium 1st or 2nd PSU for redundancy 96% efficiency (titanium) 110V range not supported uses hot plug PSU slot min. 1 / max. 2x per system
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**S26113-F574-E99 \***  
**Power Supply Dummy**  
 must be ordered if 1x PSU only  
 occupies one bay for hot plug power supply  
 max. 1x per system

<b>For later redundancy upgrade the following kit is available:</b>	
One 450W power supply module hot plug <b>no power cable included!!!</b>	<b>S26113-F575-L13</b>
One 800W power supply module hot plug <b>no power cable included!!!</b>	<b>S26113-F574-L13</b>
One 1200W power supply module hot plug <b>no power cable included!!!</b>	<b>S26113-F616-L10</b>
One 800W power supply module titanium <b>no power cable included!!!</b>	<b>S26113-F615-L10</b>
Please order appropriate power cord additionally: Powercord for rack, 4m, grey, IEC320 C13->C14 connector Power Cord USA / Canada, 1.8m, grey	
	<b>T26139-Y1968-L10</b> <b>T26139-Y1742-L10</b>



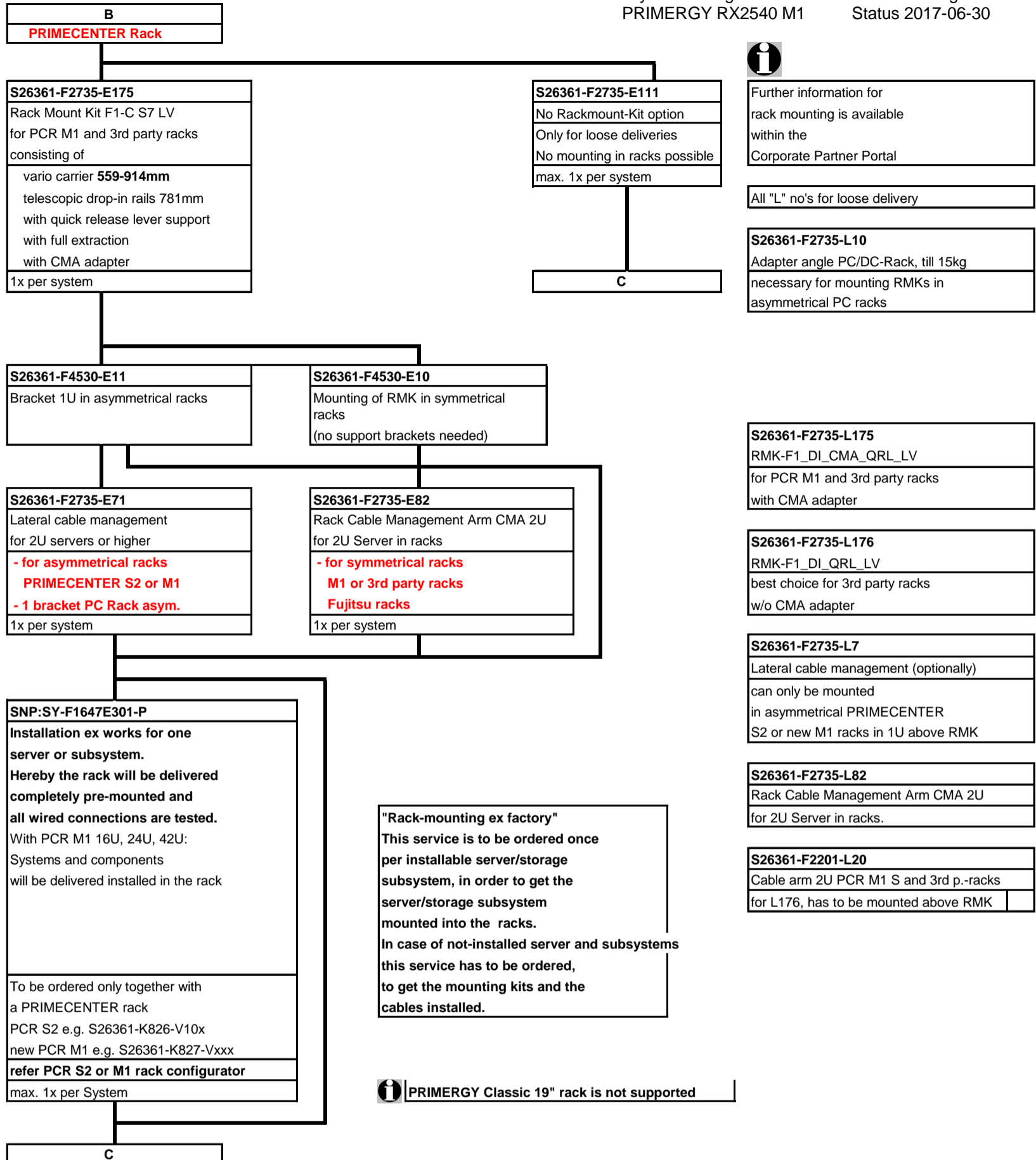
**\*For order completeness only**  
 Not shown in system architect  
 Version > V9.2

**S26361-F3552-E6**  
 TPM Module  
 Trusted Platform Module on Motherboard  
 Use according to import restrictions  
 max. 1x per system

**S26361-F3552-L6**  
 TPM Module add-on kit  
 for later integration (loose delivery)  
 Trusted Platform Module on Motherboard  
 Use according to import restrictions  
 max. 1x per system

Be aware of import restrictions!  
 Loose delivery for later integration possible for customer.

B



**i** Further information for rack mounting is available within the Corporate Partner Portal

All "L" no's for loose delivery

**S26361-F2735-L10**  
 Adapter angle PC/DC-Rack, till 15kg necessary for mounting RMKs in asymmetrical PC racks

**S26361-F2735-L175**  
 RMK-F1\_DI\_CMA\_QRL\_LV for PCR M1 and 3rd party racks with CMA adapter

**S26361-F2735-L176**  
 RMK-F1\_DI\_QRL\_LV best choice for 3rd party racks w/o CMA adapter

**S26361-F2735-L7**  
 Lateral cable management (optionally) can only be mounted in asymmetrical PRIMECENTER S2 or new M1 racks in 1U above RMK

**S26361-F2735-L82**  
 Rack Cable Management Arm CMA 2U for 2U Server in racks.

**S26361-F2201-L20**  
 Cable arm 2U PCR M1 S and 3rd p.-racks for L176, has to be mounted above RMK

**"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 not-installed server and subsystems this service has to be ordered, to get the mounting kits and the cables installed.

**i** PRIMERGY Classic 19" rack is not supported

C

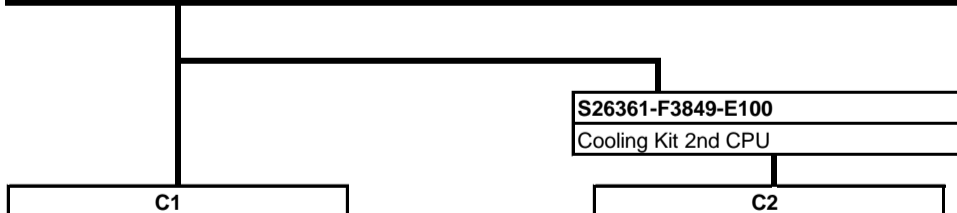
**Section Processor**

There are 2 processor sockets available.  
 The first socket must always be equipped with the **first CPU** which can be selected via configurator  
**Two processors with different clock frequencies are not possible**

<b>Max. two CPU's can be selected per basic unit</b>	
<b>One of following CPU's can be selected once (only as first CPU) for an orderable basic unit</b>	
<b>Optional second CPU has to be the same type like the first CPU</b>	
<b>Xeon E5-2600v3 (R) Basic</b>	
- 1x 64-bit Intel Xeon (15MB Smart Cache) 1600 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2603v3 6C/6T 1.60GHz 15MB 6.4GT/s 1600MHz 85W</b>	<b>S26361-F3849-E103</b>
<b>Xeon E5-2609v3 6C/6T 1.90GHz 15MB 6.4GT/s 1600MHz 85W</b>	<b>S26361-F3849-E109</b>
<b>Xeon E5-2600v3 (R) Standard</b>	
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 1866 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2620v3 6C/12T 2.40GHz 15MB 8.0GT/s 1866MHz 85W</b>	<b>S26361-F3849-E120</b>
<b>Xeon E5-2630v3 8C/16T 2.40GHz 20MB 8.0GT/s 1866MHz 85W</b>	<b>S26361-F3849-E130</b>
<b>Xeon E5-2640v3 8C/16T 2.60GHz 20MB 8.0GT/s 1866MHz 90W</b>	<b>S26361-F3849-E140</b>
<b>Xeon E5-2600v3 (R) Advanced</b>	
- 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2650v3 10C/20T 2.30GHz 25MB 9.6GT/s 2133MHz 105W</b>	<b>S26361-F3849-E150</b>
<b>Xeon E5-2600v3 (R) Frequency Optimized</b>	
- 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 1866 & 2133 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2623v3 4C/8T 3.00GHz 10MB 8.0GT/s 1866MHz 105W</b>	<b>S26361-F3849-E123</b>
<b>Xeon E5-2600v3 (R) Advanced</b>	
- 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2660v3 10C/20T 2.60GHz 25MB 9.6GT/s 2133MHz 105W</b>	<b>S26361-F3849-E160</b>
<b>Xeon E5-2670v3 12C/24T 2.30GHz 30MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E170</b>
<b>Xeon E5-2680v3 12C/24T 2.50GHz 30MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E180</b>
<b>Xeon E5-2690v3 12C/24T 2.60GHz 30MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E190</b>
<b>Xeon E5-2600v3 (R) Frequency Optimized</b>	
- 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 1866 & 2133 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2637v3 4C/8T 3.50GHz 15MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E137</b>
<b>Xeon E5-2643v3 6C/12T 3.40GHz 20MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E143</b>
<b>Xeon E5-2667v3 8C/16T 3.20GHz 20MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E167</b>
<b>Xeon E5-2600v3 (R) High Core Count</b>	
- 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2683v3 14C/28T 2.00GHz 35MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E183</b>
<b>Xeon E5-2695v3 14C/28T 2.30GHz 35MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E195</b>
<b>Xeon E5-2697v3 14C/28T 2.60GHz 35MB 9.6GT/s 2133MHz 145W</b>	<b>S26361-F3849-E197</b>
<b>Xeon E5-2698v3 16C/32T 2.30GHz 40MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E198</b>
<b>Xeon E5-2699v3 18C/36T 2.30GHz 45MB 9.6GT/s 2133MHz 145W</b>	<b>S26361-F3849-E199</b>
<b>Xeon E5-2600v3 (R) Low Power</b>	
- 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 1866/2133 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2630Lv3 8C/16T 1.80GHz 20MB 8.0GT/s 1866MHz 55W</b>	<b>S26361-F3849-E131</b>
<b>Xeon E5-2650Lv3 12C/24T 1.80GHz 30MB 9.6GT/s 2133MHz 65W</b>	<b>S26361-F3849-E151</b>



Max. DDR4 Bus Speed depends on:  
 - max. DDR4 Bus Speed from the CPU and  
 - max. DDR4 Memory Speed and  
 - max. memory modules on one memory channel





C1

C2

<b>One of following CPU's has to be selected as second CPU</b>	
<b>Optional second CPU has to be the same type like the first CPU</b>	
<b>Xeon E5-2600v3 (R) Basic</b>	
- 1x 64-bit Intel Xeon (15MB Smart Cache) 1600 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2603v3 6C/6T 1.60GHz 15MB 6.4GT/s 1600MHz 85W</b>	<b>S26361-F3849-E103</b>
<b>Xeon E5-2609v3 6C/6T 1.90GHz 15MB 6.4GT/s 1600MHz 85W</b>	<b>S26361-F3849-E109</b>
<b>Xeon E5-2600v3 (R) Standard</b>	
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 1866 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2620v3 6C/12T 2.40GHz 15MB 8.0GT/s 1866MHz 85W</b>	<b>S26361-F3849-E120</b>
<b>Xeon E5-2630v3 8C/16T 2.40GHz 20MB 8.0GT/s 1866MHz 85W</b>	<b>S26361-F3849-E130</b>
<b>Xeon E5-2640v3 8C/16T 2.60GHz 20MB 8.0GT/s 1866MHz 90W</b>	<b>S26361-F3849-E140</b>
<b>Xeon E5-2600v3 (R) Advanced</b>	
- 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2650v3 10C/20T 2.30GHz 25MB 9.6GT/s 2133MHz 105W</b>	<b>S26361-F3849-E150</b>
<b>Xeon E5-2660v3 10C/20T 2.60GHz 25MB 9.6GT/s 2133MHz 105W</b>	<b>S26361-F3849-E160</b>
<b>Xeon E5-2670v3 12C/24T 2.30GHz 30MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E170</b>
<b>Xeon E5-2680v3 12C/24T 2.50GHz 30MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E180</b>
<b>Xeon E5-2690v3 12C/24T 2.60GHz 30MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E190</b>
<b>Xeon E5-2600v3 (R) Frequency Optimized</b>	
- 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 1866 & 2133 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2623v3 4C/8T 3.00GHz 10MB 8.0GT/s 1866MHz 105W</b>	<b>S26361-F3849-E123</b>
<b>Xeon E5-2637v3 4C/8T 3.50GHz 15MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E137</b>
<b>Xeon E5-2643v3 6C/12T 3.40GHz 20MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E143</b>
<b>Xeon E5-2667v3 8C/16T 3.20GHz 20MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E167</b>
<b>Xeon E5-2600v3 (R) High Core Count</b>	
- 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2683v3 14C/28T 2.00GHz 35MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E183</b>
<b>Xeon E5-2695v3 14C/28T 2.30GHz 35MB 9.6GT/s 2133MHz 120W</b>	<b>S26361-F3849-E195</b>
<b>Xeon E5-2697v3 14C/28T 2.60GHz 35MB 9.6GT/s 2133MHz 145W</b>	<b>S26361-F3849-E197</b>
<b>Xeon E5-2698v3 16C/32T 2.30GHz 40MB 9.6GT/s 2133MHz 135W</b>	<b>S26361-F3849-E198</b>
<b>Xeon E5-2699v3 18C/36T 2.30GHz 45MB 9.6GT/s 2133MHz 145W</b>	<b>S26361-F3849-E199</b>
<b>Xeon E5-2600v3 (R) Low Power</b>	
- 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 1866/2133 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
<b>Xeon E5-2630Lv3 8C/16T 1.80GHz 20MB 8.0GT/s 1866MHz 55W</b>	<b>S26361-F3849-E131</b>
<b>Xeon E5-2650Lv3 12C/24T 1.80GHz 30MB 9.6GT/s 2133MHz 65W</b>	<b>S26361-F3849-E151</b>



Separate orderable CPU upgrade kits		
S26361-F3849-L403	Xeon E5-2603v3 6C/6T 1.60GHz 15MB 6.4GT/s 1600MHz 85W	
S26361-F3849-L409	Xeon E5-2609v3 6C/6T 1.90GHz 15MB 6.4GT/s 1600MHz 85W	
S26361-F3849-L420	Xeon E5-2620v3 6C/12T 2.40GHz 15MB 8.0GT/s 1866MHz 85W	
S26361-F3849-L430	Xeon E5-2630v3 8C/16T 2.40GHz 20MB 8.0GT/s 1866MHz 85W	
S26361-F3849-L440	Xeon E5-2640v3 8C/16T 2.60GHz 20MB 8.0GT/s 1866MHz 90W	
S26361-F3849-L450	Xeon E5-2650v3 10C/20T 2.30GHz 25MB 9.6GT/s 2133MHz 105W	
S26361-F3849-L423	Xeon E5-2623v3 4C/8T 3.00GHz 10MB 8.0GT/s 1866MHz 105W	
S26361-F3849-L437	Xeon E5-2637v3 4C/8T 3.50GHz 15MB 9.6GT/s 2133MHz 135W	special release only
S26361-F3849-L443	Xeon E5-2643v3 6C/12T 3.40GHz 20MB 9.6GT/s 2133MHz 135W	special release only
S26361-F3849-L460	Xeon E5-2660v3 10C/20T 2.60GHz 25MB 9.6GT/s 2133MHz 105W	special release only
S26361-F3849-L467	Xeon E5-2667v3 8C/16T 3.20GHz 20MB 9.6GT/s 2133MHz 135W	special release only
S26361-F3849-L480	Xeon E5-2680v3 12C/24T 2.50GHz 30MB 9.6GT/s 2133MHz 120W	special release only
S26361-F3849-L490	Xeon E5-2690v3 12C/24T 2.60GHz 30MB 9.6GT/s 2133MHz 135W	special release only
S26361-F3849-L498	Xeon E5-2698v3 16C/32T 2.30GHz 40MB 9.6GT/s 2133MHz 135W	special release only
S26361-F3849-L499	Xeon E5-2699v3 18C/36T 2.30GHz 45MB 9.6GT/s 2133MHz 145W	special release only

D

D

Section III Memory



- There are 12 memory slots per CPU for max.

768GB LRDIMM (12x 64GB 4R)

384GB RDIMM (12x 32GB 2R)

=> max. 1.536GB for two CPUs (768GB 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 and Load Reduced DIMMs can be selected**

**No mix of registered and load reduced modules is allowed.**

Memory will be operated at 1.2V.

Depending on the CPU following memory speeds will be reached:

In a single DIMM per channel configuration 2133MHz will be supported

This is also valid for a dual LRDIMM configurations (2166MHz)

In a dual RDIMM configuration 1866MHz will be supported

All 3DPC configurations support 1600MHz

**SDDC (Chipkill) is supported for registered and load reduced x4 organized memory modules**

**1.) "Independent Channel Mode" the following configuration is 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 and load reduced modules is 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 DDR4 module per channel**

**3.) "Performance Mode" configuration**

In this configuration, the memory module population ex factory is spread across all channels.

The BIOS is set to the maximum performance for memory.

**Minimum configuration is four identical modules per CPU**

**4.) "Mirrored Channel Mode" configuration**

Each memory bank can optionally be equipped with four registered or load reduced DDR4 modules

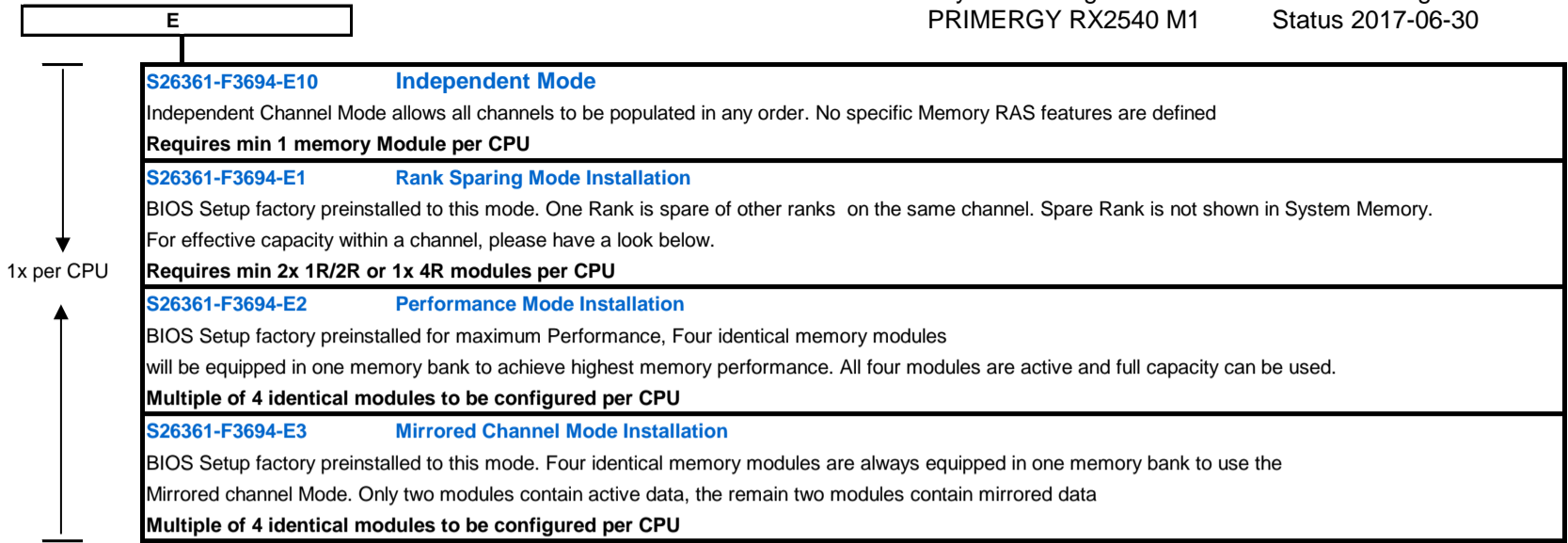
**In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.**

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 four identical modules per CPU**

E



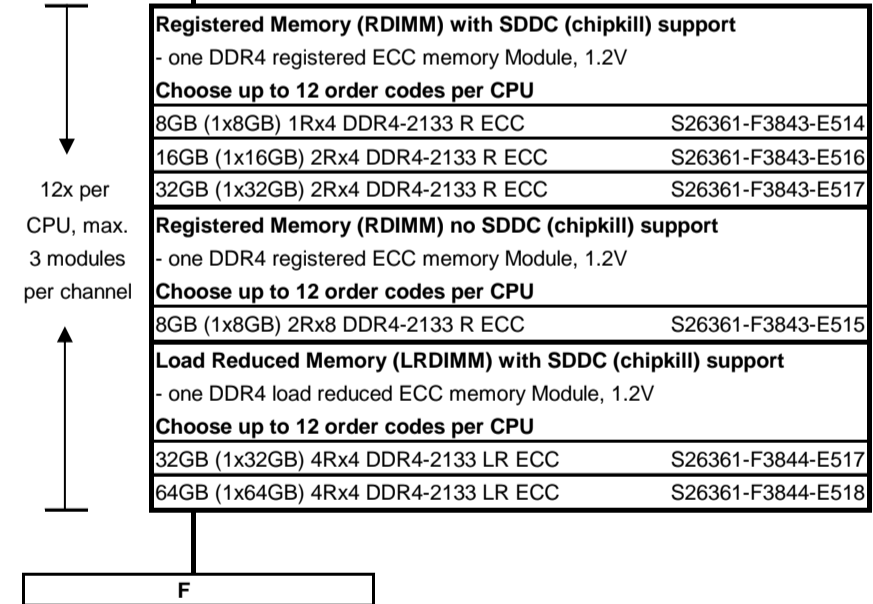
**i Effective Memory capacity / Rank Sparing Mode, 1 Channel populated**

	RDIMM			LRDIMM	
	8GB 1R	16GB 2R	32GB 2R	32GB 4R	64GB 4R
1DPC				24GB	48GB
2DPC	8GB	24GB	48GB	56GB	112GB
3DPC	16GB	40GB	80GB	88GB	176GB

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

**i Note 1)**  
 Max. DDR4 memory speed depends on the memory configuration (No of mem modules per channel) 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

**i Note 2)**  
 Mix of memory modules is only possible within the same group



## Memory Configuration PRIMERGY RX2540 M1

Each CPU offers 12 **Slots** for DDR4 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 DDR4 Memory Modules available: RDIMM and LRDIMM

Mix of RDIMM and LRDIMM is not allowed.

Mode	Configuration	RDIMM	RDIMM	Application
			LRDIMM	
		<b>x8</b>	<b>x4</b>	
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	1x8GB	1x32GB	with one CPU
Max. Memory per CPU	12 Modules / CPU	12x32GB	12x64GB	with one CPU
Max. Memory per System	24 Modules / System	768GB	1536GB	if second CPU is configured

### Memory-Speed:

**Max. DDR4 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 2133MHz			LRDIMM 2133MHz		
	1.2V			1.2V		
Voltage setting (BIOS)	1	2	3	1	2	3
	DPC	DPC	DPC	DPC	DPC	DPC
<b>CPU with 2133MHz DDR4 Bus</b>	2133	2133	1600	2133	2133	1600
<b>CPU with 1866MHz DDR4 Bus</b>	1866	1866	1600	1866	1866	1600
<b>CPU with 1600MHz DDR4 Bus</b>	1600	1600	1600	1600	1600	1600

1R - Single Rank      4R - Quad Rank  
 2R - Dual Rank      8R - Eight 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:

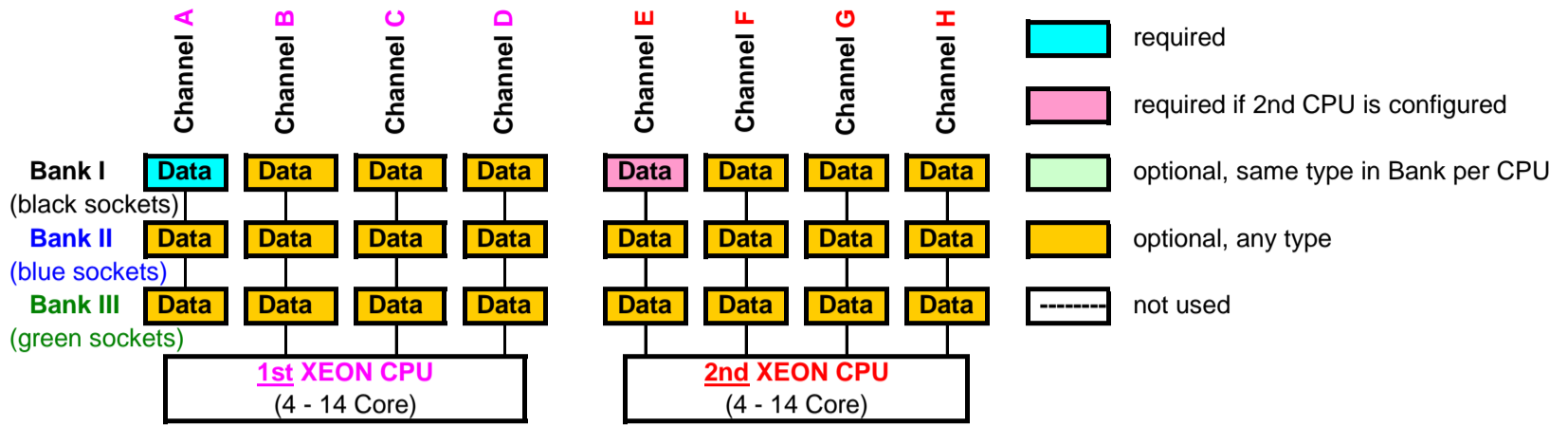
**Bank I**    black sockets  
**Bank II**   blue sockets  
**Bank III**  green sockets

- A so called Bank consists 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 - H on the 1st/2nd CPU  
**Bank III on CPU 1/2**    up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU

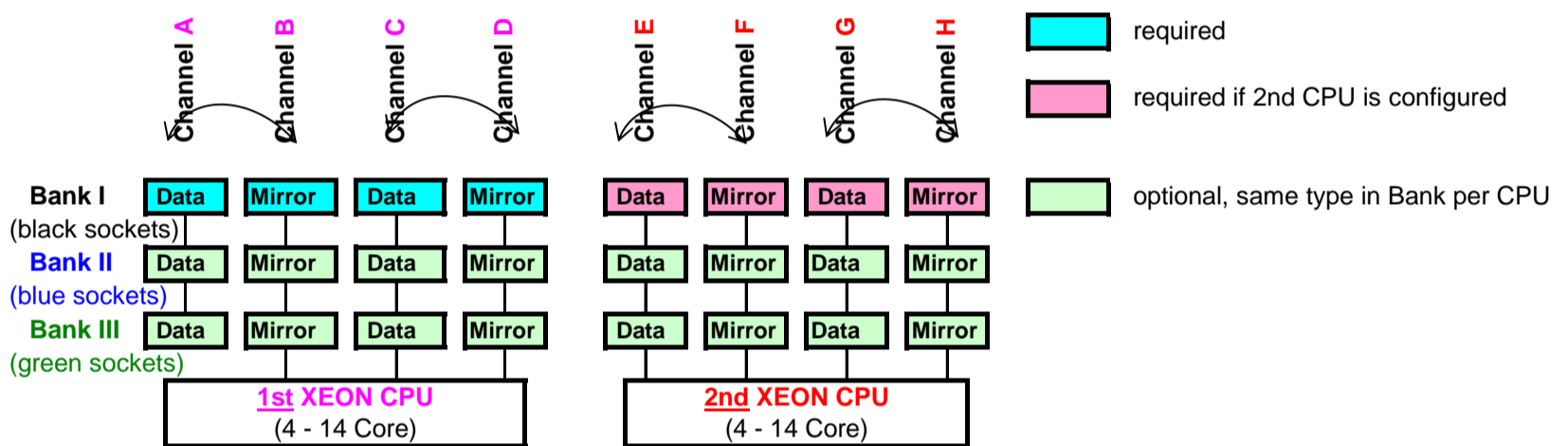
- See below and next page for a detailed descriptions of the memory configuration supported.

### 1. Independent Channel Mode



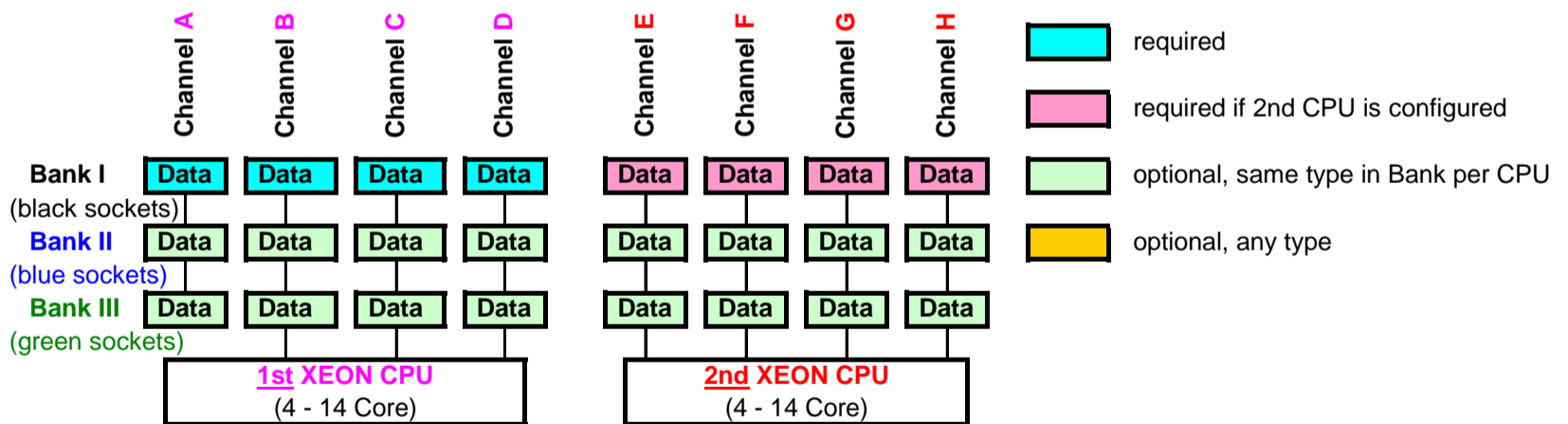
Independent Channel Mode allows all channels to be populated in any order  
 Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

### 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.

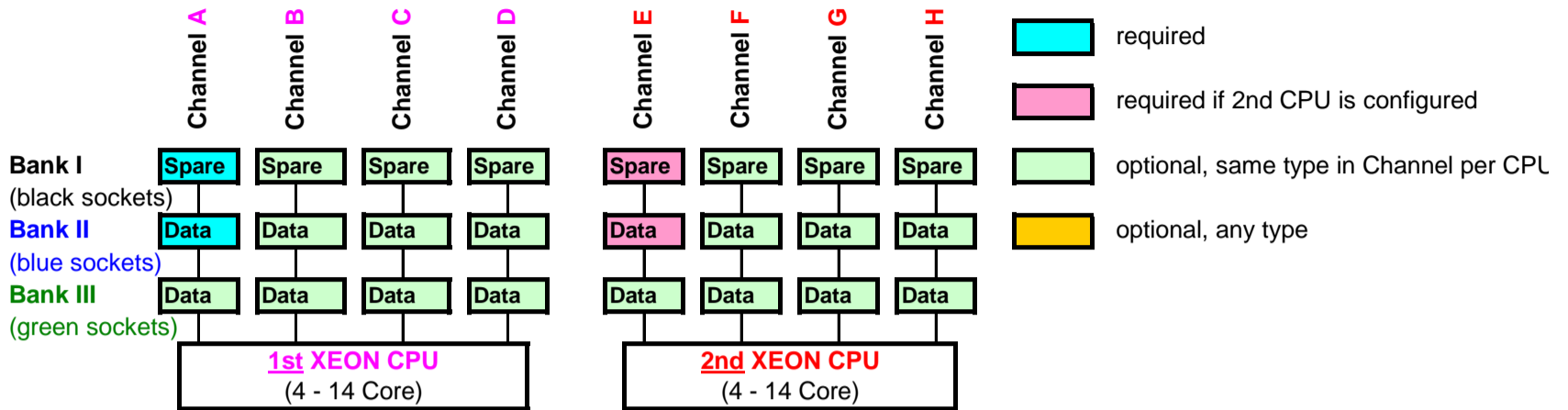
### 3. Performance Channel Mode



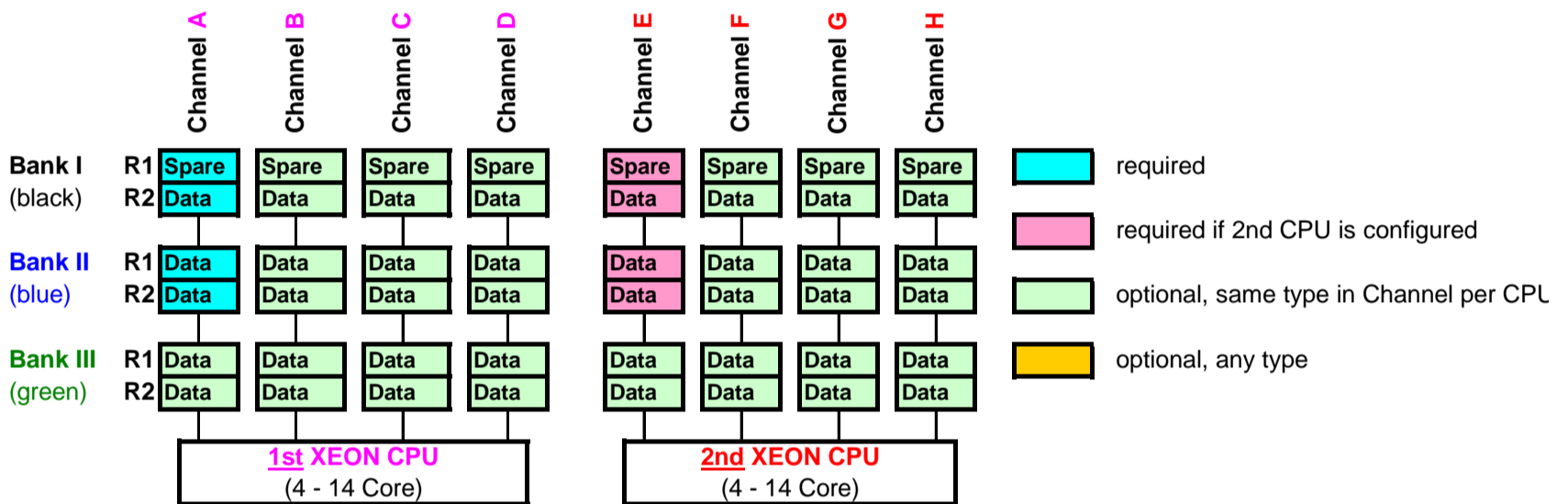
Performance Channel Mode requires identical modules on all channels of each Bank per CPU.  
 If this mode is used, a multiple of 4 identical modules has to be ordered.

## 4. Rank Sparing Mode

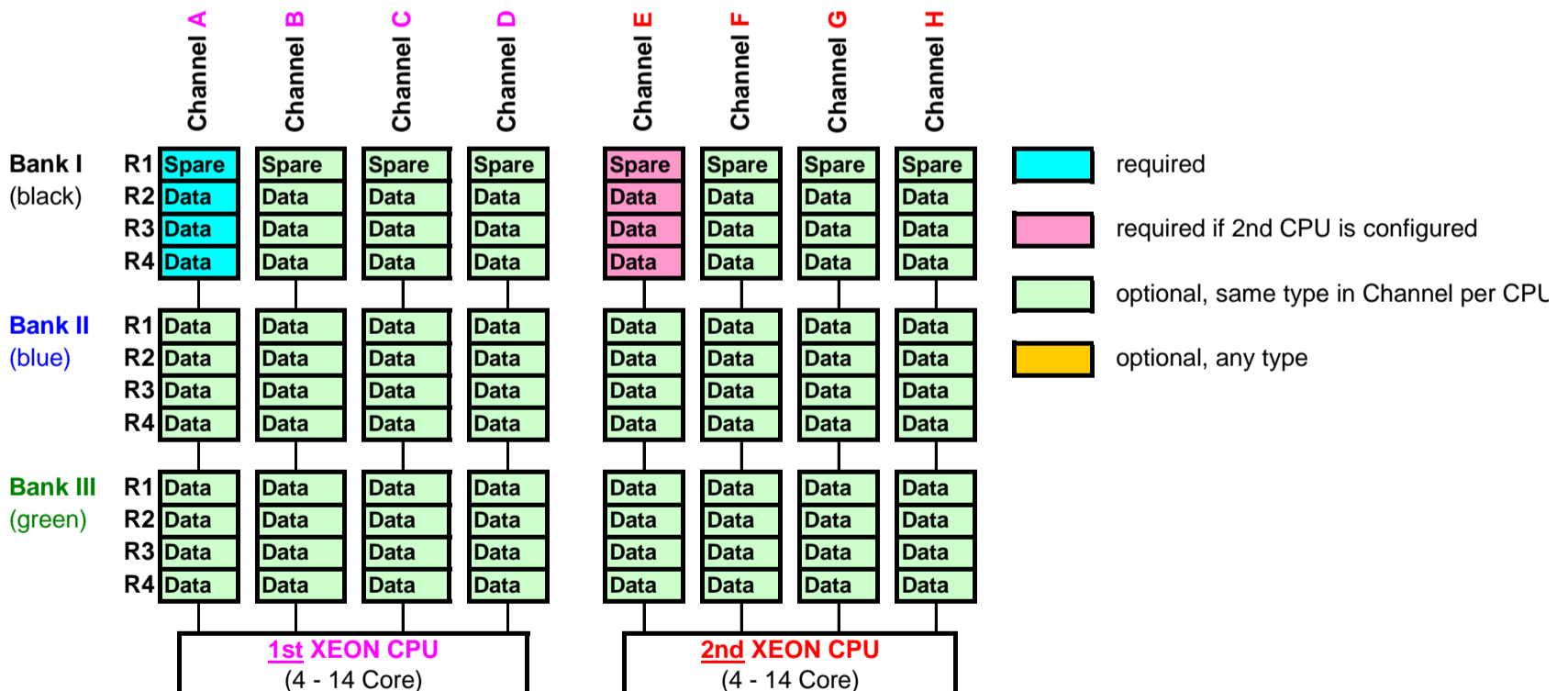
### 1-Rank Memory modules (RDIMM)



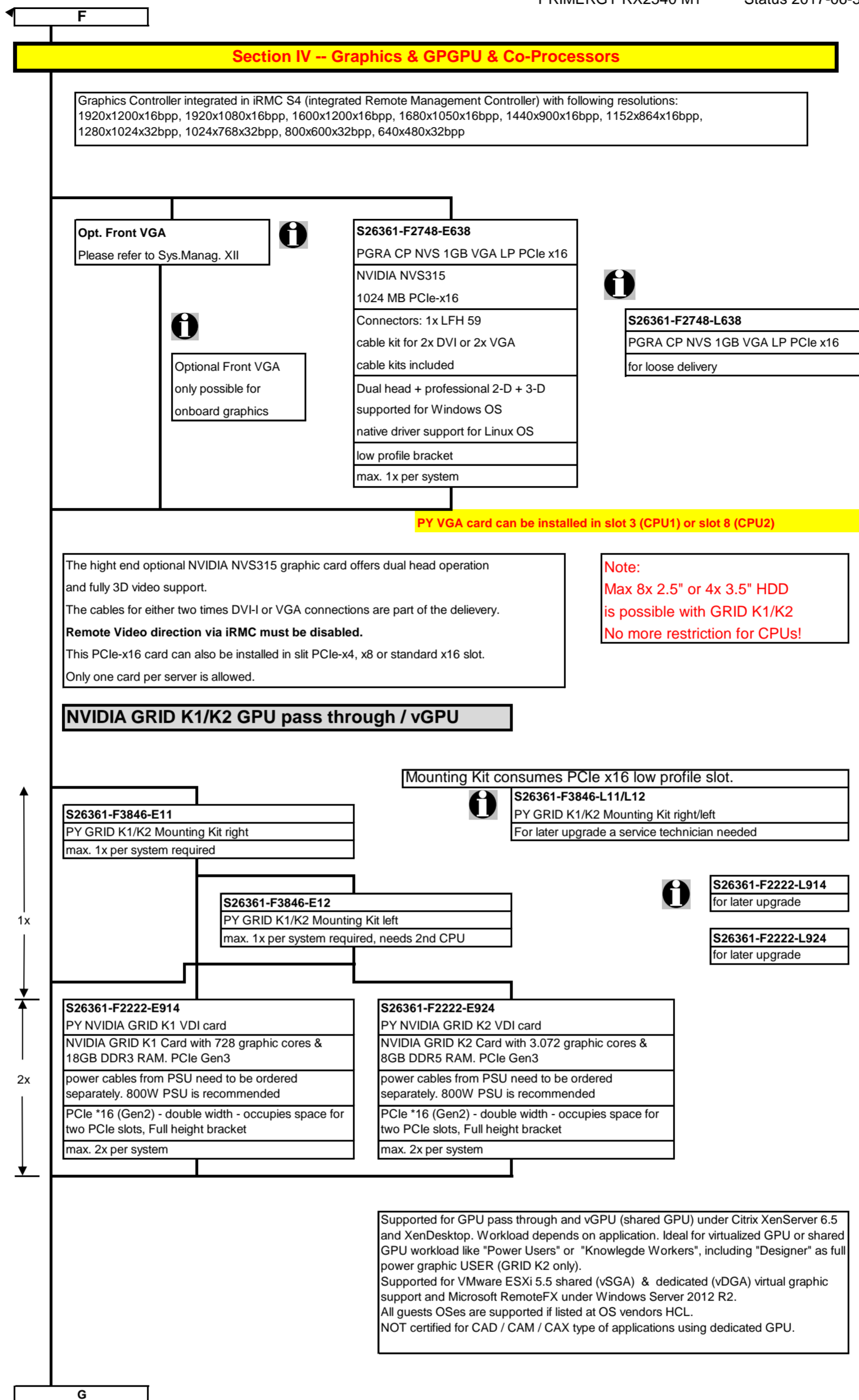
### 2-Rank Memory modules (RDIMM)



### 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

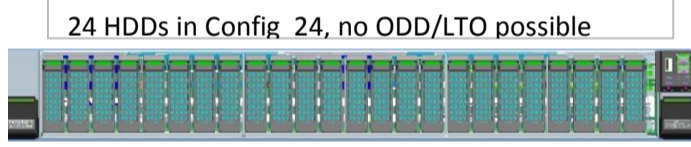
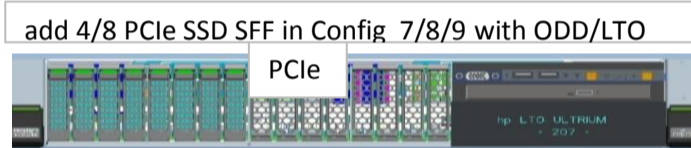
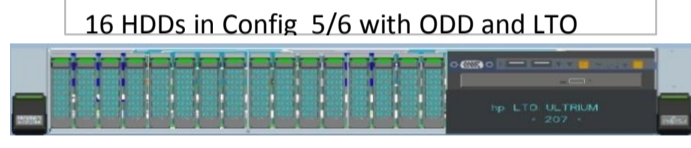
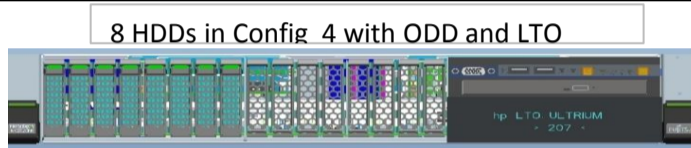


G

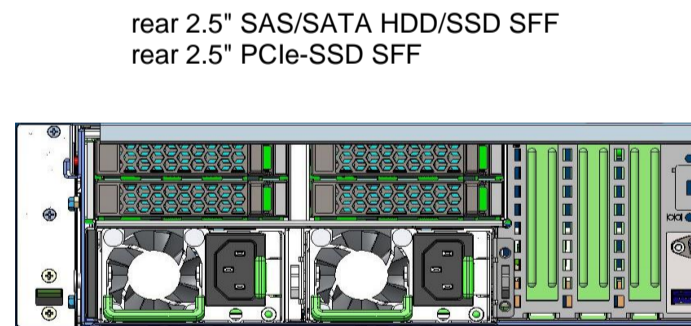
**Section Va Possible configuration options for basic units**



<b>Config 1, 2 or 3: Up to 4x, 8x or 12x 3.5" HDD (LFF)</b>	
<b>Basic unit S26361-K1495-V101</b>	<b>expandable</b>
<b>Config 1: Max. 4x 3.5" HDD</b>	<b>included</b>
Available Upgrade kits for this configuration option:	
<b>Upgrade kit to 8x 3.5" HDD</b>	<b>S26361-F2495-L112</b>
<b>Config 2: Max. 8x 3.5" HDD</b> <b>S26361-F2495-E120</b>	
Available Upgrade kits for this configuration option:	
<b>Upgrade kit to 12x 3.5" HDD</b>	<b>not possible!</b>
<b>Basic unit S26361-K1495-V112 with 12x 3.5" HDDs</b>	
<b>Config 3: Up to 12x 3.5" HDD, no ODD</b>	<b>included</b>
Available Upgrade kits for this configuration option:	
<b>None</b>	



<b>Basic unit S26361-K1495-V401 with</b>		<b>expandable</b>
<b>Config. 4: 8x 2.5" HDD bays</b>	<b>S26361-F2495-E440</b>	
Available Upgrade kits for this configuration option:		
<b>Upgrade kit 4 to 16x 2.5" HDD</b>	<b>S26361-F2495-L445</b>	
<b>Upgrade kit 4 to 24x 2.5" HDD</b>	<b>S26361-F2495-L442</b>	
<b>Upgrade kit 4 to +4x PCIe SDD SFF</b>	<b>S26361-F2495-L448</b>	
<b>Config. 5: 16x 2.5" HDD bays</b> <b>S26361-F2495-E450</b>		
<b>Config. 6: 16x 2.5" HDD @ Dual RAID</b> <b>S26361-F2495-E452</b>		
Available Upgrade kits for this configuration option:		
<b>Upgrade kit 5 to 24x 2.5" HDD</b>	<b>S26361-F2495-L452</b>	
<b>Config. 7: 4x PCIe-SSD SFF</b> <b>S26361-F2495-E470</b>		
Available Upgrade kits for this configuration option:		
<b>Upgrade kit 7 to +8x 2.5" HDD</b>	<b>S26361-F2495-L478</b>	
<b>Upgrade kit 7 to +4x 2.5" PCIe-SSD</b>	<b>on special release</b>	
<b>Config. 8: 8x 2.5" + 4x PCIe-SSD SFF</b> <b>S26361-F2495-E480</b>		
<b>Config. 9: 8x PCIe-SSD SFF</b> <b>on special release</b>		
<b>Basic unit S26361-K1495-V424 with 24x 2.5" HDDs</b>		
<b>Config 24: Up to 24x 2.5" HDD, no ODD/Backup</b>	<b>included</b>	
Available Upgrade kits for this configuration option:		
<b>None</b>		
Includes all necessary bezels, cages, backplanes and cables		



Modular REAR SFF HDD/SSD options are possible for every basic unit, so V1xx as well as V4xx are expandable	
<b>S26361-F3853-E10</b>	<b>Option REAR SAS/SATA HDD/SSD</b>
<b>S26361-F3853-E20</b>	<b>Option REAR PCIe SSD SFF</b>
Available Upgrade kits for this configuration option:	
<b>S26361-F3853-L10</b>	<b>Upgrade REAR SAS/SATA HDD/SSD</b>
<b>S26361-F3853-L20</b>	<b>Upgrade REAR PCIe SSD SFF</b>
Provides 4 rear hot-plug bays for SAS/SATA HDD/SSD SFF or PCIe-SSD SFF devices	
<b>Note: Separate SAS-Controller or PCIe switch needed in slot 9 which requires a 2nd CPU!</b>	
Note: Consumes space for PCIe riser 2x x8 left	
max. 1x per system	
Includes all necessary bezels, cages, backplanes and cables	

H



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**Section Vb Accessible drives**

Setup RX2540 M1 by ServerStart is supported with following configurations:

**no DVD, no CD:**  
 remote installation only ( PXE service & DHCP server required)

**built in CD/DVD or USB CD/DVD disk drive:**  
 UNC Network share reachable or USB Floppy connected

**USB Floppy, no CD/DVD:**  
 USB CD/DVD connected

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

Only for basic unit V401 with max 16 HDDs and V101 with max 8 HDD

1x	<b>S26361-F3778-E1</b> DVD-RW supermulti ultraslim SATA 8x DVD 24x CD 9.5mm x 5.25", black bezel max. 1x per system	<b>S26361-F3641-E6</b> Blu-ray Triple Writer ultraslim SATA 6x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats 9.5mm x 5.25", black bezel max. 1x per system	<b>S26361-F3718-E2</b> DVD-ROM ultraslim SATA 16x DVD 48x CD 9.5mm x 5.25", black bezel max. 1x per system
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<b>S26361-F3750-E4</b> RDX Drive USB3.0 3.5" internal 100MB/s, USB 3.0 Connector: USB 3.0 "B" with USB cable without RDX cartridges 1.6 x 3.5", black bezel max. 1x per system	Only for basic unit V401 as soon as available
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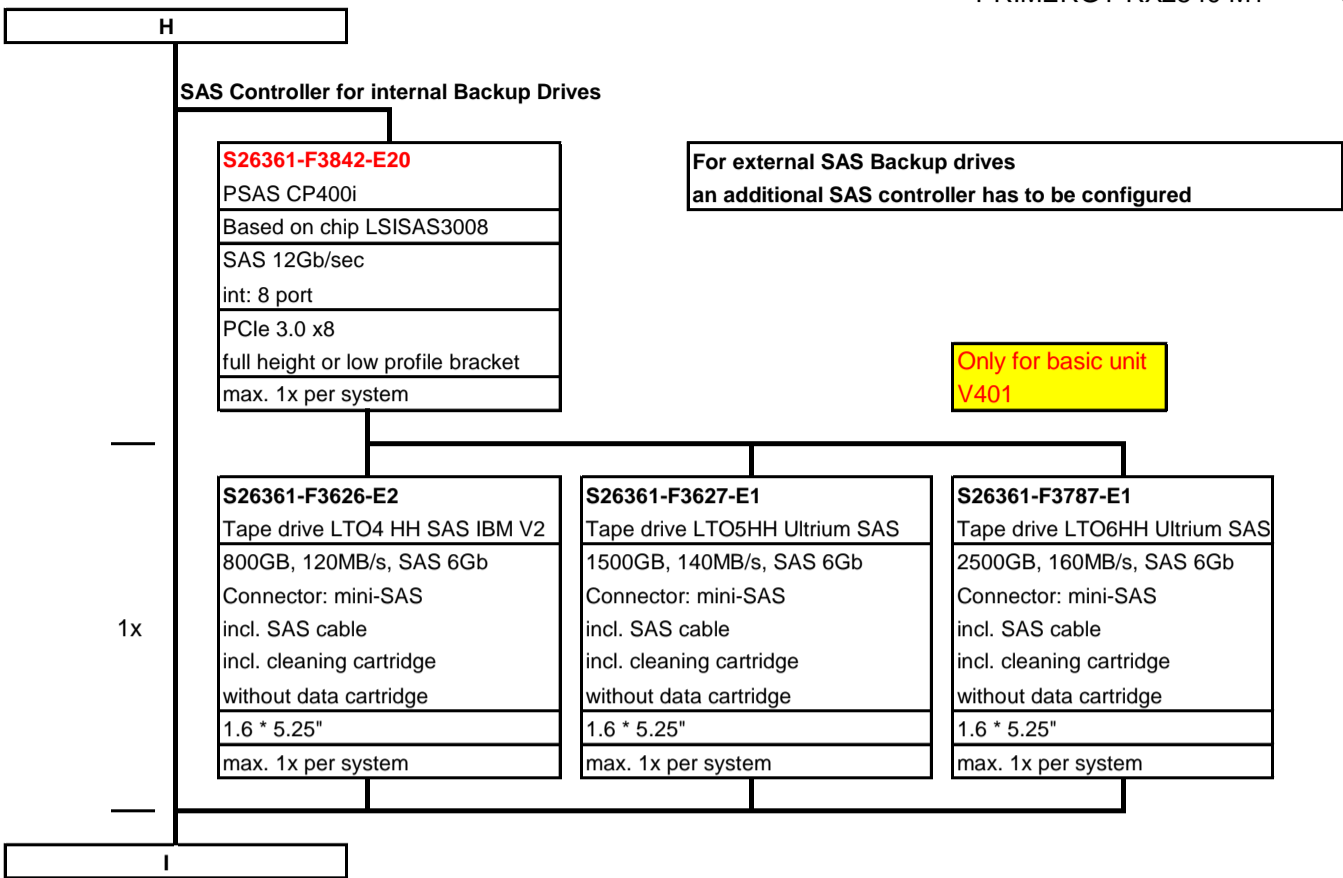
Not possible for basic unit V1xx

RDX Drive is connected to on-board USB3

**i** 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

**i** The drive is also available as optional (loose) delivery  
 S26361-F3750-L5/L7 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!

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**Section VI Hard disks drives**

**Modular Raid controller is connected to internal HDDs**  
For basic unit V112 up to 12 SAS 3.5" hard disks can be configured also in mixed configuration.

**The option "Tape drive" is not possible for 3.5" Version (V1xx)**

**SAS and SATA drives can be mixed, but not used in one logical RAID volume**

**SAS drives requires SAS Controller**

**Support of SAS12G requires SAS12G Controller**

**SAS12G drives are SAS6G compatible**

**Hard Disk Sector Format**  
512n HDD: 512 byte sectors on the drive media.  
512e (e=emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.  
512e HDD Disk Drives: **VMware is not supported.**

**\*) SSD Mainstream Endurance 10DWPD over 5y**  
**\*\*) SSD Read-Intensive Endurance 0.3DWPD over 5y**

**SATA Disk Drive 3.5"** 8/10TB HDDs not released with PSAS CP400i (S26361-F3842-E2)

4x, 8x or 12x with SAS expander for basic unit V1xx

HDD SATA 6Gb/s 3.5" with hot plug/hot replace tray	
500GB 7200rpm, <9,0ms, 64MB Cache, 512n	<a href="#">S26361-F3815-E500</a>
1TB 7200rpm, <9,0ms, 64MB Cache, 512n	<a href="#">S26361-F3815-E100</a>
2TB 7200rpm, <9,0ms, 64MB Cache, 512n	<a href="#">S26361-F3815-E200</a>
3TB 7200rpm, <9,0ms, 64MB Cache, 512n	<a href="#">S26361-F3815-E300</a>
4TB 7200rpm, <9,0ms, 64MB Cache, 512n	<a href="#">S26361-F3815-E400</a>
6TB 7200rpm, <9,0ms, 128MB Cache, 512e	<a href="#">S26361-F3904-E600</a>
8TB 7200rpm, 256MB Cache, 512e	<a href="#">S26361-F3904-E800</a>
10TB 7200rpm, 256MB Cache, 512e	<a href="#">S26361-F3904-E100</a>
max. 4x, 8x or 12x per System	

Please order additionally either/or:

Config 1: Max. 4x 3.5" HDD	V101
Config 2: Up to 8x 3.5" HDD	
Config 3: Up to 12x 3.5" HDD	V112

as soon as available  
as soon as available

**SAS Disk Drive 3.5"**

HDD SAS 12Gb/s, 2.5" HDD within 3.5" hot plug/hot replace tray	
300GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5532-E530</a>
450GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5532-E545</a>
600GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5532-E560</a>
HDD SAS 6Gb/s 3.5" with hot plug/hot replace tray	
1TB 7200rpm, <9,0ms, 32MB Cache, 512n	<a href="#">S26361-F3820-E100</a>
2TB 7200rpm, <9,0ms, 32MB Cache, 512n	<a href="#">S26361-F3820-E200</a>
3TB 7200rpm, <9,0ms, 32MB Cache, 512n	<a href="#">S26361-F3820-E300</a>
4TB 7200rpm, <9,0ms, 32MB Cache, 512n	<a href="#">S26361-F3820-E400</a>
HDD SAS 12Gb/s 2.5" HDD with 3.5" hot plug/hot replace tray	
300GB 10000rpm 128MB Cache, 512n	<a href="#">S26361-F5568-E130</a>
600GB 10000rpm 128MB Cache, 512n	<a href="#">S26361-F5568-E160</a>
1.2TB 10000rpm 128MB Cache, 512n	<a href="#">S26361-F5568-E112</a>
1.8TB 10000rpm 128MB Cache, 512e	<a href="#">S26361-F5569-E118</a>
HDD SAS 6Gb/s 3.5" hot plug/hot replace tray	
300GB 15000rpm 16MB Cache, 512n	<a href="#">S26361-F3819-E530</a>
max. 4x, 8x or 12x per System	

**Solide State Disk, 3.5"**

SSD SATA 6Gb/s, 2.5" SSD within 3.5" hot plug/hot replace tray (H-P)	
120GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5530-E120</a>
240GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5530-E240</a>
480GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5530-E480</a>
800GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5530-E800</a>
100GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5289-E100</a>
200GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5289-E200</a>
400GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5289-E400</a>
800GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5289-E800</a>
SSD SAS 12Gb/s, 2.5" SSD within 3.5" hot plug/hot replace tray (H-P)	
200GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5320-E200</a>
400GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5320-E400</a>
800GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5320-E800</a>
1.6TB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5320-E160</a>
800GB, Enterprise (EP), Write-Intensive (WI) *	<a href="#">S26361-F5607-E800</a>
max. 4x, 8x or 12x per System	

\*) Only for basic unit V402

J

**Solid State Disk, Boot Drive, SATA DOM (SATADOM Port, AHCI)**

<b>SSD SATA 6Gb/s DOM, Boot Device, non "hot plug/hot replace"</b>	
32GB, SATA DOM, 86 TBW (Seq. write)	<a href="#">S26361-F5522-E32</a>
64GB, SATA DOM, 172 TBW (Seq. write)	<a href="#">S26361-F5522-E64</a>
128GB, SATA DOM, 345 TBW (Seq. write)	<a href="#">S26361-F5522-E128</a>
SATADOM is designed for use as a boot drive with the Endurance Spec. above.	
Vmware is not supported.	
max. 1x per system	

**Note:**  
Currently not possible with on-board SATA RAID Controller

**Solid State Disk 2.5", SATA 6G Read-Intensive\*\***

<b>SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray (H-P)</b>	
120GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5525-E120</a>
240GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5525-E240</a>
480GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5525-E480</a>
800GB, Enterprise (EP), Read-Intensive**	<a href="#">S26361-F5525-E800</a>
max. 8/16/24x per system	

**Solid State Disk 2.5", SATA 6G Mainstream\***

<b>SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray (H-P)</b>	
100GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F3821-E100</a>
200GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F3821-E200</a>
400GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F3821-E400</a>
800GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F3821-E800</a>
max. 8/16/24x per system	

**Solid State Disk 2.5", SAS 12G Mainstream\***

<b>SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray (H-P)</b>	
200GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5298-E200</a>
400GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5298-E400</a>
800GB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5298-E800</a>
1.6TB, Enterprise (EP), Mainstream Endurance (ME)*	<a href="#">S26361-F5298-E160</a>
400GB, Enterprise (EP), Write-Intensive (WI) *)	<a href="#">S26361-F5608-E400</a>
800GB, Enterprise (EP), Write-Intensive (WI) *)	<a href="#">S26361-F5608-E800</a>
max. 8/16/24x per system	

\*) Only for basic unit V402

**SAS Disk Drive 2.5"**

<b>HDD SAS 6Gb/s 2.5" with hot plug/hot replace tray</b>	
500GB 7.200rpm,<9,5ms, 64MB Cache	<a href="#">S26361-F3817-E500</a>
1TB 7.200rpm,<9,5ms, 64MB Cache	<a href="#">S26361-F3817-E100</a>
300GB 10000rpm,<4,5ms, 32MB Cache, 512n	<a href="#">S26361-F3818-E130</a>
600GB 10000rpm,<4,5ms, 32MB Cache, 512n	<a href="#">S26361-F3818-E160</a>
900GB 10000rpm,<4,5ms, 32MB Cache, 512n	<a href="#">S26361-F3818-E190</a>
1.2TB 10000rpm,<4,6ms, 64MB Cache, 512n	<a href="#">S26361-F3818-E112</a>
max. 8/16/24x per system	
<b>HDD SAS 12Gb/s 2.5" with hot plug/hot replace tray</b>	
450GB, 10krpm, 128MB Cache, 512e	<a href="#">S26361-F5543-E145</a>
600GB, 10krpm, 128MB Cache, 512e	<a href="#">S26361-F5543-E160</a>
900GB, 10krpm, 128MB Cache, 512e	<a href="#">S26361-F5543-E190</a>
1.2TB, 10krpm, 128MB Cache, 512e	<a href="#">S26361-F5543-E112</a>
1.8TB, 10krpm, 128MB Cache, 512e	<a href="#">S26361-F5543-E118</a>
300GB, 10krpm, 128MB Cache, 512n	<a href="#">S26361-F5550-E130</a>
600GB, 10krpm, 128MB Cache, 512n	<a href="#">S26361-F5550-E160</a>
900GB, 10krpm, 128MB Cache, 512n	<a href="#">S26361-F5550-E190</a>
1.2TB, 10krpm, 128MB Cache, 512n	<a href="#">S26361-F5550-E112</a>
300GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5531-E530</a>
450GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5531-E545</a>
600GB 15000rpm, <=3.1ms, 128MB Cache, 512n	<a href="#">S26361-F5531-E560</a>
max. 8/16/24x per system	

**HDD 512e**  
512e drives are not supported with the current versions of vSphere and VSAN

max 8/16/24x for V4xx

**SATA Disk Drive 2.5"**

<b>HDD SATA 6Gb/s 2.5" with hot plug/hot replace tray</b>	
250GB 7.200rpm,<9,5ms, 64MB Cache, 512n	<a href="#">S26361-F3816-E250</a>
500GB 7.200rpm,<9,5ms, 64MB Cache, 512n	<a href="#">S26361-F3816-E500</a>
1TB 7.200rpm,<9,5ms, 64MB Cache, 512n	<a href="#">S26361-F3816-E100</a>
max. 8/16/24x per system	

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**Section VII Modular Raid 0/1, Raid5 for SAS or SATA HD's. On-board Controller for max. 8x SATA HD's**

**On board SATA Controller (Wellsburg) with 6 Gb/sec can be used for up to 8x 3.5" or 8x 2.5" SATA HDD configurations without PRAID xP4x0i**

For every configuration with SAS hard disks or SSDs one of the following modular RAID-controllers is required

**Modular Raid 0/1 controller with IME support for SAS/SATA**

This RAID controller supports max. 8 HDDs on internal SAS ports



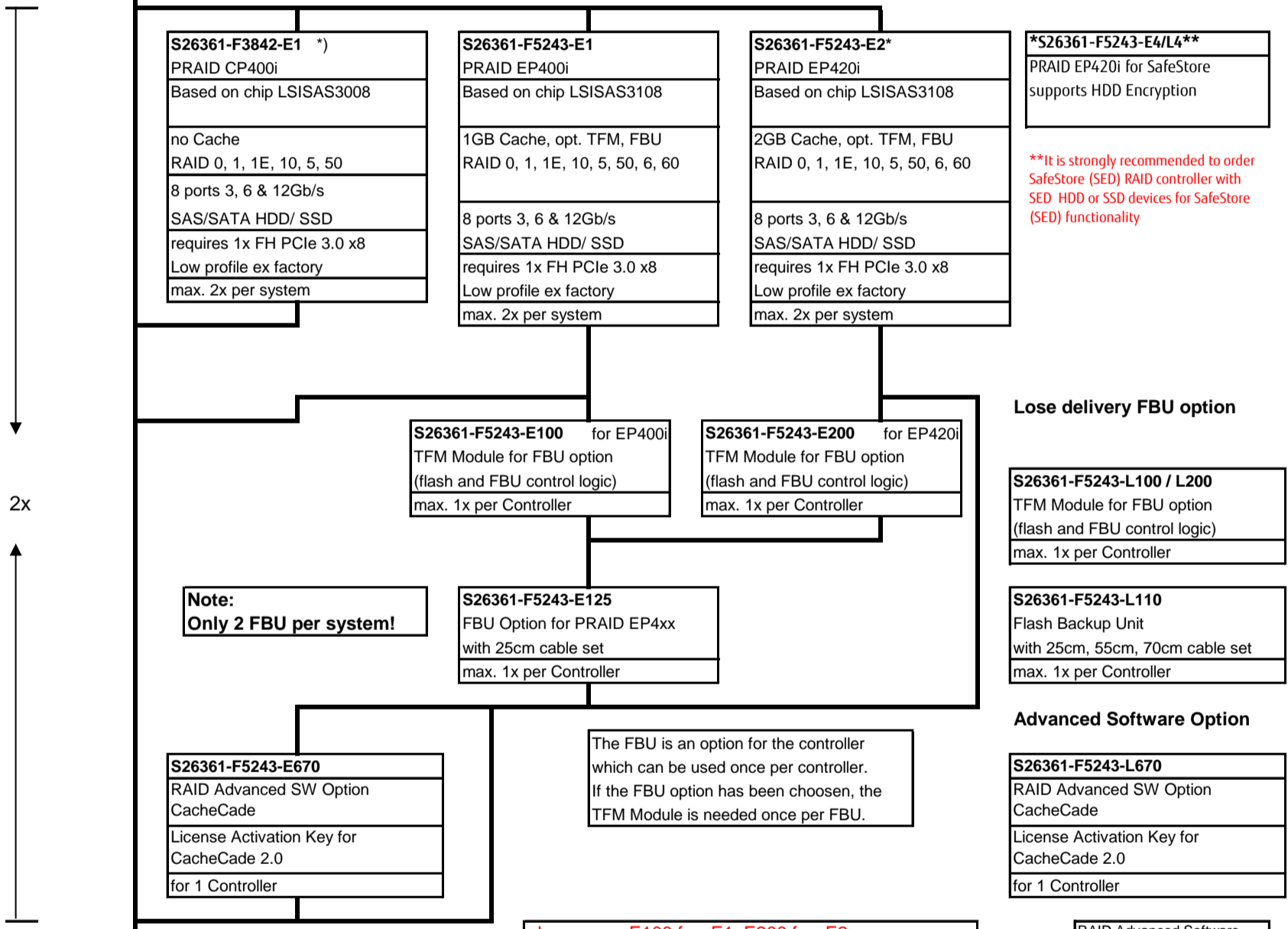
**Modular Raid 5 controller for SAS/SATA RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported.**

This RAID controller supports max. 24 HDDs combined with internal SAS expander



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

**S26361-F3853-E10 Option REAR SAS/SATA HDD/SSD**  
 This option needs a separate (additional) PRAID xP4x0i controller in slot 9 which requires a 2nd CPU!



always use -E100 for -E1, E200 for -E2

\*) In V112: only together with S26361-F3853-E10 (Option REAR 2.5" SAS/SATA HDD/SSD)

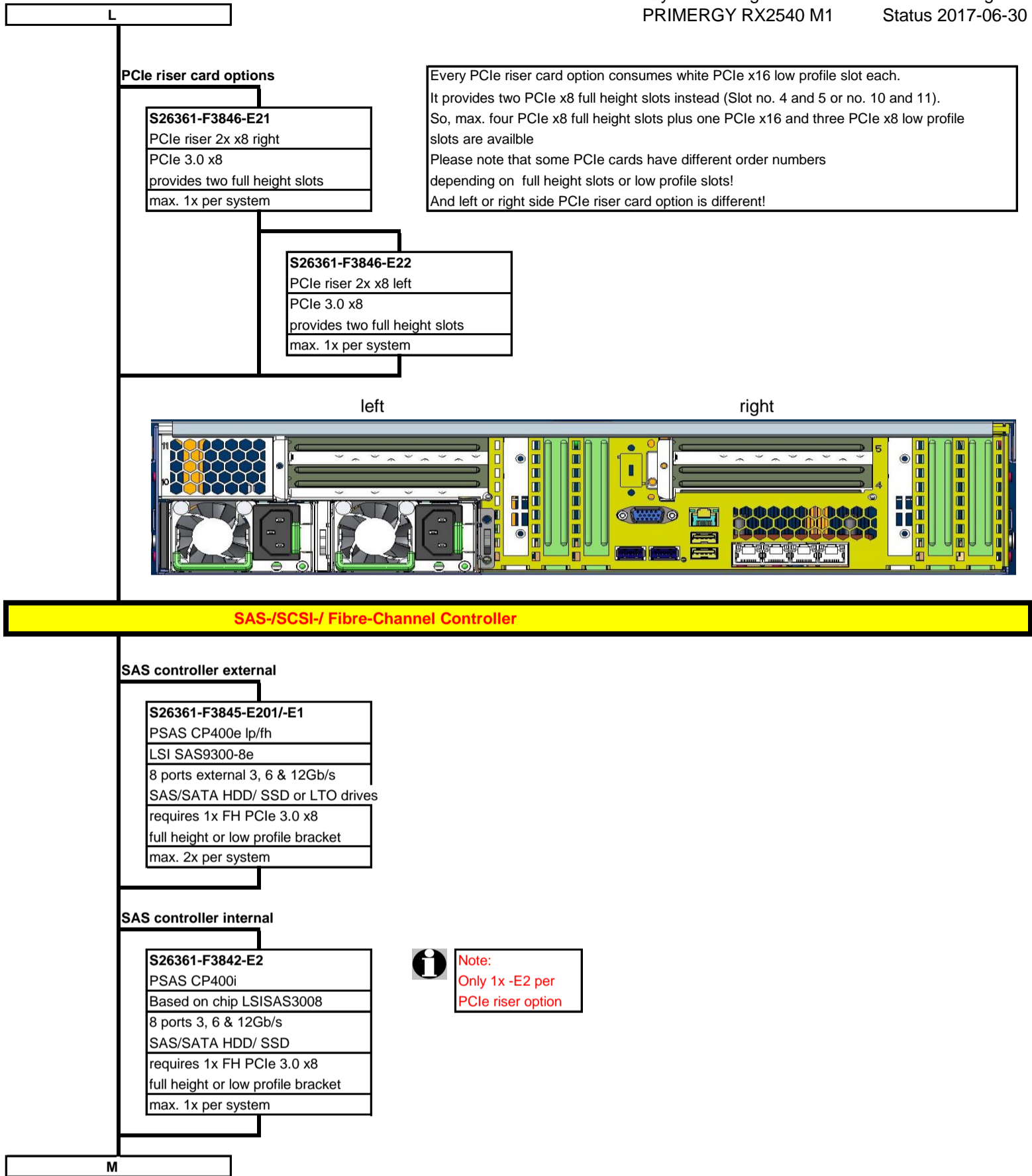
**As soon as available**

! The SAS 3.0 cable kit is only required for later upgrades and just if the onboard SATA 6G RAID Controller (which has a SAS2.0 connector) was originally selected.  
 ! Orders ex factory always come with the right cable

**S26361-F3120-L100**  
 SAS3.0 cable upgrade kit for RX2540 2.5"  
 This kit contains the following cables for RX2540 2.5":  
 T26139-Y4040-V8, 470mm  
 T26139-Y4040-V9, 540mm  
 and connects the 2.5" backplane with the SAS 3.0 RAID controller mounted in slot 1  
  
 required for later upgrade from onboard SATA 6G controller to dedicated SAS 3.0 Controller

FastPath is free of charge

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Please note that this PCIe cards have different order numbers:  
**-Ex for full height slots or -E20x for low profile slots!**

**Fibre Channel Controller for external storage systems**

<b>S26361-F3631-E201/E1</b>
8GBit/s FC Controller
Qlogic
QLE2560, low profile bracket
1 channel 8GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe2 x8, 170mm
max. 6x per system

<b>S26361-F3631-E202/E2</b>
8GBit/s FC Controller
Qlogic
QLE2562, low profile bracket
2 channel 8GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe2 x8, 170mm
max. 6x per system

**i** 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.

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

loose delivery:  
 Single channel S26361-F3631-L201/L1  
 Dual Channel S26361-F3631-L202/L2  
 with mounted LP bracket  
 FH bracket is not included

<b>S26361-F5313-E201/E1</b>
16GBit/s FC Controller
Qlogic
QLE2670, low profile bracket
1 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe3 x8, 170mm
max. 6x per system

<b>S26361-F5313-E202/E2</b>
16GBit/s FC Controller
Qlogic
QLE2672, low profile bracket
2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe3 x8, 170mm
max. 6x per system

loose delivery:  
 Single channel S26361-F5313-L501  
 Dual Channel S26361-F5313-L502  
 contains LP and FH brackets.

<b>S26361-F3961-E201/E1</b>
8GBit/s FC Controller
Emulex
LPe1250, low profile bracket
1 channel 8GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe2 x8, 170mm
max. 6x per system

<b>S26361-F3961-E202/E2</b>
8GBit/s FC Controller
Emulex
LPe12002, low profile bracket
2 channel 8GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe2 x8, 170mm
max. 6x per system

loose delivery:  
 Single channel S26361-F3961-L201/L1  
 Dual Channel S26361-F3961-L202/L2  
 with mounted LP bracket  
 FH bracket is not included

as soon as available

<b>S26361-F4994-E201/E1</b>
16GBit/s FC Controller
Emulex
LPe16000, low profile bracket
1 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe3 x8, 170mm
max. 6x per system

<b>S26361-F4994-E202/E2</b>
16GBit/s FC Controller
Emulex
LPe16002, low profile bracket
2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe3 x8, 170mm
max. 6x per system

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

6x

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**SAS RAID controller for JBOD subsystems**

**S26361-F3847-E202**  
 PRAID EP420e  
 based on LSI SAS 3108  
 2GB Cache, opt. TFM, FBU  
 RAID 0, 1, 5, 6, 10, 50 & 60  
 8 ports external 3, 6 & 12Gb/s  
 SAS/SATA HDD/ SSD or LTO drives  
 PCIe 3.0 x8, MD2 form factor  
 full height / low profile bracket  
 max. 4x per system

**S26361-F5243-E200**  
 TFM Module for FBU option  
 (flash and FBU control logic)  
 max. 1x per Controller

**S26361-F5243-E155**  
 FBU Option for PRAID EP4xx  
 with 55cm cable set  
 max. 1x per Controller

**S26361-F5243-E670**  
 RAID Advanced SW Option  
 CacheCade License Activation Key  
 for CacheCade 2.0  
 max. 1x per Controller

**Lose delivery**

**S26361-F3847-L502**  
 PRAID EP420e  
 based on LSI SAS 3108  
 2GB Cache, opt. TFM, FBU  
 RAID 0, 1, 5, 6, 10, 50 & 60  
 8 ports external 3, 6 & 12Gb/s  
 SAS/SATA HDD/ SSD or LTO drives  
 PCIe 3.0 x8, MD2 form factor  
 Full height & low profile bracket  
 Customer configurable

**S26361-F5243-L200**  
 TFM Module for FBU option  
 (flash and FBU control logic)  
 max. 1x per Controller

**Lose delivery FBU option**  
**S26361-F5243-L110**  
 FBU Option for PRAID EP4xx  
 with 25, 55, 70 cable set  
 max. 1x per Controller

**Advanced Software Option**

RAID Advanced Software  
 free of charge test licence  
 available: PRIMERGY-PM

FastPath is free of charge

**S26361-F5243-L670**  
 RAID Advanced SW Option  
 CacheCade License Activation Key  
 for CacheCade 2.0  
 max. 1x per Controller

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**Section VIII PCIe-Switch and PCIe-SSD SFF (2.5")**

Note: This option is only possible with:

Config. 7: 4x PCIe-SSD SFF	S26361-F2495-E470
Config. 8: 8x 2.5" + 4x PCIe-SSD SFF	S26361-F2495-E480
Config. 9: 8x PCIe-SSD SFF	on special release

Option REAR PCIe SSD SFF	S26361-F3853-E20
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Loose delivery with exchangeable  
 Full Height (FH) or Low Profile (LP) bracket

2x

S26361-F5267-E201
S26361-F5267-L501
PPCI EP x16 Switch Ip
devides PCIe3.0 x16 lanes into 4x x4 lanes
supports up to 4x 2.5" PCIe-SSD SFF
No HW RAID, No Cache
PCIe3,0 x16
occupies a PCIe3.0 x16 slot
max. 2x per system

max. 8x

PCIe-SSD 2.5" (SFF) with hot plug/hot replace tray						
capacity	Formfactor	PCIe	Endurance	dwpd	order code E-part	order code L-part
800GB	2.5" (SFF)	Gen 3 x4	mainstream	10	S26361- F5534-E800	S26361- F5534-L800
1.6TB	2.5" (SFF)	Gen 3 x4	mainstream	10	S26361- F5534-E161	S26361- F5534-L161
2.0TB	2.5" (SFF)	Gen 3 x4	mainstream	10	S26361- F5534-E201	S26361- F5534-L201
max. 4/8x per system						

max. 2 / 4x

**PCIe-SSD (occupies one PCIe slot)**

S26361-F5546-E131 S26361-F5546-L131 PACC EP PX600 1.3TB Fusion ioMemory series PCIe 2.0 25nm Lithography PCIe x8, Low Profile max. 4x per system	S26361-F5546-E261 S26361-F5546-L261 PACC EP PX600 2.6TB Fusion ioMemory series PCIe 2.0 25nm Lithography PCIe x8, Low Profile max. 4x per system	S26361-F5546-E521 S26361-F5546-L521 PACC EP PX600 5.2TB Fusion ioMemory series PCIe 2.0 25nm Lithography PCIe x8, Full Hight max. 2x per system
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**Chapter 9 - LAN Components**

Dynamic LoM interface cards

one DynamicLoM order code is mandatory

Interface card to provide the external connectors for on-board LAN			
PLAN EM blind panel	Blind panel if no DynamicLoM	S26361-F5302-E100	n/a
PLAN EM 2x1Gb T interface card	2x RJ45 plug for 1000BASE-T	S26361-F5302-E201	S26361-F5302-L201
PLAN EM 4x1Gb T interface card	4x RJ45 plug for 1000BASE-T	S26361-F5302-E401	S26361-F5302-L401
PLAN EM 2x10Gb T interface card	2x RJ45 plug for 10GBASE-T	S26361-F5302-E210	S26361-F5302-L210
PLAN EM 2x10Gb SFP interface card	s <a href="#">for SFP modules and cables see link</a>	S26361-F5302-E211	S26361-F5302-L211

required 1x per system

1Gb Ethernet network components

1Gb Ethernet controller with RJ45 interface (1000BASE-T)			
PLAN CP 2x1Gbit Cu Intel I350-T2	4x	2 port, Intel	S26361-F4610-E2 S26361-F4610-L502
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	4x	2 port, Intel	S26361-F4610-E202 S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4	4x	4 port, Intel	S26361-F4610-E4 S26361-F4610-L504
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	4x	4 port, Intel	S26361-F4610-E204 S26361-F4610-L504

max. 4 Controller per system

10Gb Ethernet network components

10Gb Ethernet controller with RJ45 interface (10GBASE-T)			
Eth Ctrl 2x10GBase-T PCIe x8 X540-T2	4x	2 port NIC, Intel	S26361-F3752-E2 S26361-F3752-L502
Eth Ctrl 2x10GBase-T PCIe x8 X540-T2 LP	4x	2 port NIC, Intel	S26361-F3752-E202 S26361-F3752-L502
PLAN EP X550-T2 2x10GBASE-T	4x	2 port NIC, Intel	S26361-F3948-E2 S26361-F3948-L502
PLAN EP OCe14102 2x 10GBase-T LP	4x	2 port NIC, Intel	S26361-F3948-E202 S26361-F3948-L502
PLAN EP OCe14102 2x 10GBase-T	4x	2 port NIC with RDMA, Emulex	S26361-F5557-E1 S26361-F5557-L501
PLAN EP OCe14102 2x 10GBase-T LP	4x	2 port NIC with RDMA, Emulex	S26361-F5557-E201 S26361-F5557-L501

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Fujitsu / Intel based)			
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	4x	2 port NIC, Intel 82599 based	S26361-F3629-E2 S26361-F3629-L502
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ LP	4x	2 port NIC, Intel 82599 based	S26361-F3629-E202 S26361-F3629-L502

optional 10Gb SFP+ module with LC connector for Fujitsu / Intel based controller			
SFP+ Module MMF 10GbE LC	2x	MMF / SR SFP+ module, up to 400m	S26361-F3986-E3 S26361-F3986-L3
SFP+ Module SMF 10GbE LC	2x	SMF / LR SFP+ module, up to 10km	S26361-F3986-E4 S26361-F3986-L4
Twinax Anschlussplatz Primergy	2x	virtual connector for twinax cables	V:TWX CONNECTOR-PY
SFP+ active Twinax Cable Fujitsu	2x	customized cable length	S26361-F3989-E600
SFP+ active Twinax Cable Brocade	2x	(best fitting cable length is defined during rack installation at the factory)	S26361-F3873-E500
SFP+ passive Twinax Cable Cisco	2x		S26361-F4571-E500

see table at the bottom of this page  
max. 2x SFP+ or Twinax Cable per controller

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)			
PLAN EP OCe14102 2x10Gb	4x	2 port NIC with RDMA, Emulex	S26361-F5536-E2 S26361-F5536-L502
PLAN EP OCe14102 2x10Gb LP	4x	2 port NIC with RDMA, Emulex	S26361-F5536-E202 S26361-F5536-L502
PCNA EP OCe14102 2x 10Gb	4x	2 port CNA with FCoE & RDMA, Emulex	S26361-F5250-E1 S26361-F5250-L501
PCNA EP OCe14102 2x 10Gb LP	4x	2 port CNA with FCoE & RDMA, Emulex	S26361-F5250-E201 S26361-F5250-L501

optional 10Gb SFP+ module with LC connector for Emulex controller			
PCNA SFP+ MMF Modul OCe14102	2x	MMF / SR SFP+ module, up to 400m	S26361-F5250-E110 S26361-F5250-E110
Twinax Anschlussplatz Primergy	2x	virtual connector for twinax cables	V:TWX CONNECTOR-PY
SFP+ active Twinax Cable Fujitsu	2x	customized cable length	S26361-F3989-E600
SFP+ active Twinax Cable Brocade	2x	(best fitting cable length is defined during rack installation at the factory)	S26361-F3873-E500
SFP+ passive Twinax Cable Cisco	2x		S26361-F4571-E500

see table at the bottom of this page  
max. 2x SFP+ or Twinax Cable per controller

max. 4 Controller per system

as soon as available

40Gb Ethernet controller with QSFP+ interface (for QSFP+ modules or twinax cables, Emulex)			
PCNA EP OCe14401 1x 40Gb	2x	1x QSFP+ plugs for twinax or modules	S26361-F5539-E1 S26361-F5539-L501
PCNA EP OCe14401 1x 40Gb LP	2x	1x QSFP+ plugs for twinax or modules	S26361-F5539-E201 S26361-F5539-L501

optional 40Gb QSFP+ module with MTO connector for Emulex controller			
SFP+ Module MMF 10GbE LC	1x	MMF / SR SFP+ module, up to 400m	S26361-F5539-E140 S26361-F5539-L140
Twinax Anschlussplatz Primergy	1x	virtual connector for twinax cables	V:TWX CONNECTOR-40
QSFP+ active Twinax Cable	1x	customized cable length	S26361-F3986-E400
QSFP+ aktives Twinax Kabel Brocade	1x	(best fitting cable length is defined during rack installation at the factory)	S26361-F5317-E40

see table at the bottom of this page  
max. 1x QSFP+ or Twinax Cable per controller

max. 2 Controller per system

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**Network cables for later upgrade**

Fujitsu active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Fujitsu 2m	S26361-F3989-L102
SFP+ active Twinax Cable Fujitsu 5m	S26361-F3989-L105
SFP+ active Twinax Cable Fujitsu 10m	S26361-F3989-L110

Fujitsu QSFP+ / QSFP+ Twinax 40Gb cable	
QSFP+ passive Twinax Cable Fujitsu 2m	S26361-F3986-L402
QSFP+ passive Twinax Cable Fujitsu 5m	S26361-F3986-L405
QSFP+ active Twinax Cable Fujitsu 10m	S26361-F3986-L410

Brocade active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Brocade 1m	S26361-F3873-L501
SFP+ active Twinax Cable Brocade 3m	S26361-F3873-L503
SFP+ active Twinax Cable Brocade 5m	S26361-F3873-L505

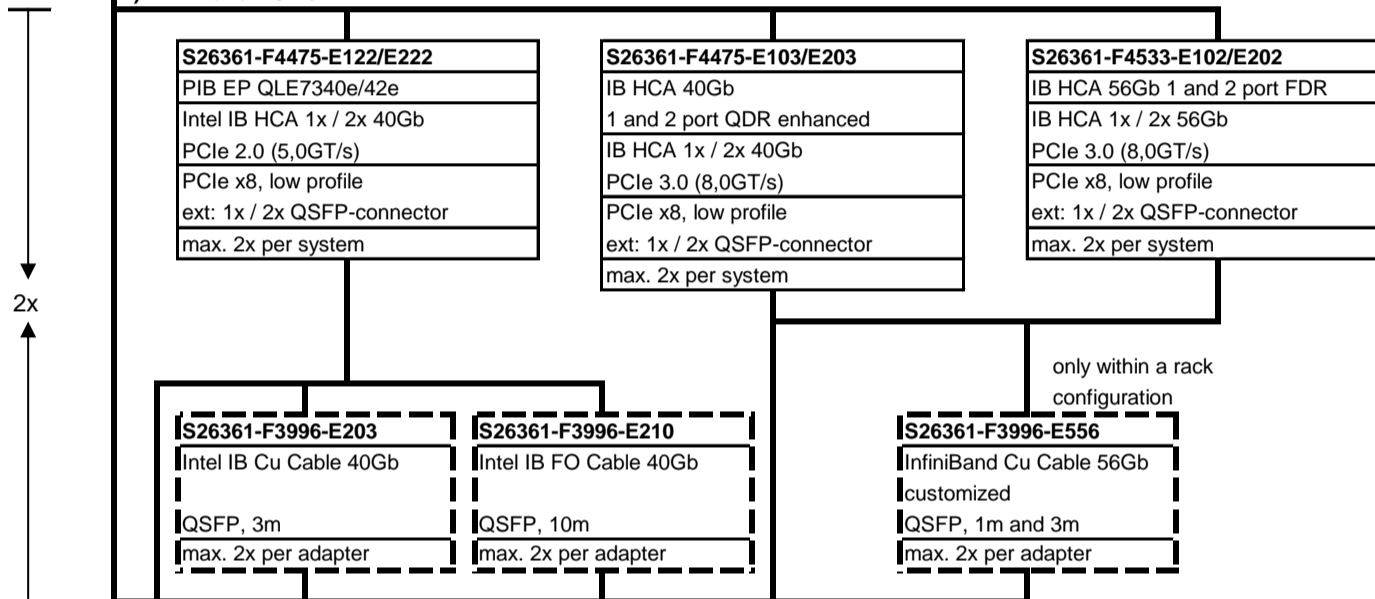
Brocade active QSFP+ / QSFP+ Twinax 40Gb cable	
QSFP+ active Twinax Cable Brocade 1m	S26361-F5317-L41
QSFP+ active Twinax Cable Brocade 3m	S26361-F5317-L43
QSFP+ active Twinax Cable Brocade 5m	S26361-F5317-L45
40GE Direct Attached QSFP-QSFP, 10m, 1-pack	D:QSFP-QSFP-AOC10L

Cisco passive SFP+ Twinax 10Gb Ethernet	
SFP+ passive Twinax Cable Cisco 1m	S26361-F4571-L101
SFP+ passive Twinax Cable Cisco 3m	S26361-F4571-L103
SFP+ passive Twinax Cable Cisco 5m	S26361-F4571-L105
SFP+ active Twinax Cable Cisco 7m	S26361-F4571-L107
SFP+ active Twinax Cable Cisco 10m	S26361-F4571-L110

Brocade active QSFP+ / 4xSFP+ Twinax 40Gb cable	
QSFP+/4xSFP+ Breakout Cable Brocade 1m	S26361-F5317-L401
QSFP+/4xSFP+ Breakout Cable Brocade 3m	S26361-F5317-L403
QSFP+/4xSFP+ Breakout Cable Brocade 5m	S26361-F5317-L405
4x10GE Direct QSFP-4SFP Cable, 10m, 1-pack	D:QSFP-4SFP-AOC10L

**Chapter 10 - InfiniBand Components**

**H) InfiniBand HCA's**



**i** loose delivery: S26361-F4475-L122/L222  
 loose delivery: S26361-F4475-L103/L203  
 loose delivery: S26361-F4533-L102/L202  
 Loose delivery with  
 FH and LP bracket included

**i** 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

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**Section X System Management Products (RemoteView)**

iRMC S4 (integrated Remote Management Controller) onboard server management Controller with dedicated 10/100/1000 Service LAN-port and integrated graphics.



**S26361-F1790-E243**  
**iRMC S4 advanced pack**  
 integrated remote management controller  
 activation key for  
 graphical console redirection  
 and remote media redirection  
 max. 1x per system

**OOB-HDD monitoring by iRMC S4:**  
 the OOB-HDD cable will be installed in production automatically  
 Exception: RAID Ctrl SAS 6G 1GB (D3116C), PRAID EP4x0i, PRAID CP400i,  
 these controllers support OOB-RAID, which includes OOB-HDD without cable



HDD OOB monitoring by iRMC  
 Loose delivery  
 S26361-F1420-L310

**S26361-F1420-E130**  
 Opt. Front VGA  
 max. 1x per system



**Front VGA for iRMC Graphic only**  
 - not for discrete Graphic -  
 - not for 12x 3.5" and 24x 2.5" HDD



Loose delivery  
 Opt. front VGA  
 S26361-F1420-L130

**Section XI Miscellaneous**

**S26361-F3120-E40**  
 Serial Port Option  
 RS-232-C  
 Cable with 9-pin plug  
 for a RS-232-C Serial Port  
 Interface  
 does NOT occupy PCI slot  
 max. 1x per system



**Options and other peripherals**  
 For other options, refer to SystemArchitect and Pricelist  
 These options are supplied loose with the shipment  
 For suitable peripherals for this product, please refer to SystemArchitect

**S26361-F3776-E101**  
**Cool-safe® Advanced Thermal Design**  
 Restricts configuration to make  
 5-40° possible  
 Feature is enabled and fixed ex factory  
 max. 1x per system



**Cool-safe ATD configuration restrictions for RX2540 M1:**  
 related L-numbers as well restricted

- no basic unit with 12x LFF or 24x SFF
- 12x 3.5" HDD bays** S26361-K1495-V112
- 24x 2.5" HDD bays** S26361-K1495-V424
- not these CPUs

Intel Xeon E5-2637v3 4C/8T 3.50 GHz	S26361-F3849-E137
Intel Xeon E5-2643v3 6C/12T 3.40 GHz	S26361-F3849-E143
Intel Xeon E5-2667v3 8C/16T 3.20 GHz	S26361-F3849-E167
Intel Xeon E5-2697v3 14C/28T 2.60 GHz	S26361-F3849-E197
Intel Xeon E5-2699v3 18C/36T 2.30 GHz	S26361-F3849-E199

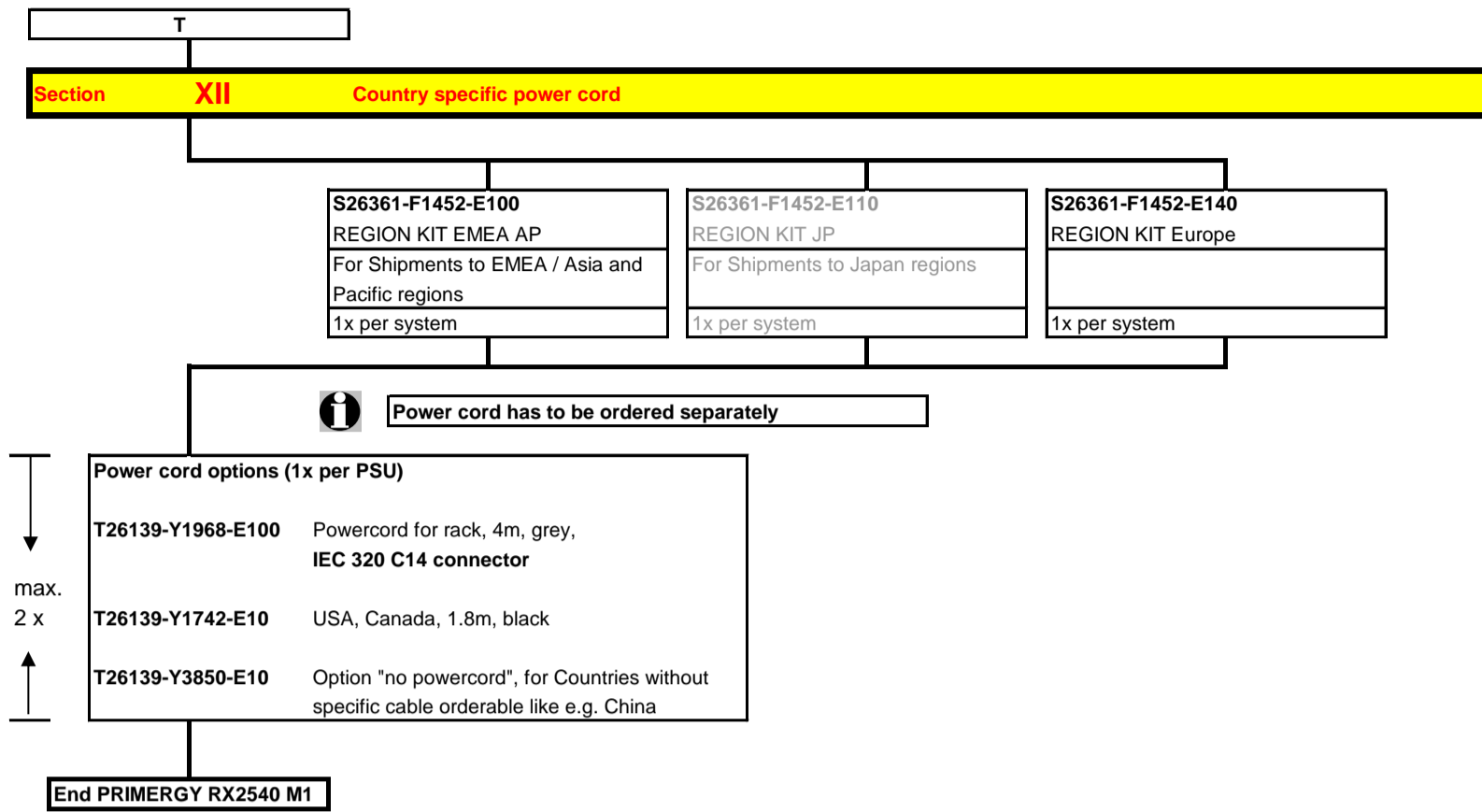
- no Grid cards

PGRA CP NVIDIA GRID K1	S26361-F2222-E914
PGRA CP NVIDIA GRID K2	S26361-F2222-E924

- no tape drives

Tape drive LTO4 HH SAS IBM V2	S26361-F3626-E2
Tape drive LTO5HH Ultrium SAS	S26361-F3627-E1
Tape drive LTO6HH Ultrium SAS	S26361-F3787-E1

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System configurator and order-information guide  
PRIMERGY RX2540 M1 Status 2017-06-30

Group	Description	order code	Status LLC
Base unit	2.5" HDD bays <b>exp long lifecycle</b>	S26361-K1495-V402	agreed
Base unit	3.5" HDD bays <b>exp long lifecycle</b>	S26361-K1495-V102	planned
Base unit	12x 3.5" HDD bays	S26361-K1495-V112	NO
Base unit	2.5" HDD bays <b>expandable</b>	S26361-K1495-V401	NO
Base unit	24x 2.5" HDD bays	S26361-K1495-V424	NO
Configs	Config. 4: 8x 2.5" HDD bays	S26361-F1495-E440	agreed
Configs	Config. 5: 16x 2.5" HDD bays	S26361-F2495-E450	agreed
Configs	Config. 6: 16x 2.5" HDD @ Dual RAID	S26361-F2495-E452	agreed
Configs	Riserkarte PCIe 2x x8 rechts	S26361-F3846-E21	agreed
CPU	Intel Xeon E5-2603v3 6C/6T 1.60 GHz	S26361-F3849-E103	NO
CPU	Intel Xeon E5-2609v3 6C/6T 1.90 GHz	S26361-F3849-E109	agreed
CPU	Intel Xeon E5-2620v3 6C/12T 2.40 GHz	S26361-F3849-E120	agreed
CPU	Intel Xeon E5-2640v3 8C/16T 2.60 GHz	S26361-F3849-E140	agreed
CPU	Intel Xeon E5-2660v3 10C/20T 2.60 GHz	S26361-F3849-E160	NO
CPU	Intel Xeon E5-2667v3 8C/16T 3.20 GHz	S26361-F3849-E167	NO
CPU	Intel Xeon E5-2670v3 12C/24T 2.30 GHz	S26361-F3849-E170	NO
CPU	Intel Xeon E5-2680v3 12C/24T 2.50 GHz	S26361-F3849-E180	agreed
CPU	Intel Xeon E5-2695v3 14C/28T 2.30 GHz	S26361-F3849-E195	agreed
CPU	Intel Xeon E5-2697v3 14C/28T 2.60 GHz	S26361-F3849-E197	NO
CPU	Intel Xeon E5-2637v3 4C/8T 3.50 GHz	S26361-F3849-E137	NO
CPU	Intel Xeon E5-2698v3 16C/32T 2.30 GHz	S26361-F3849-E198	NO
CPU	Kühlösung für 2te CPU	S26361-F3849-E100	agreed
RAM	4 GB (1x4 GB) DDR4-2133 R ECC		NO
RAM	8GB (1x8GB) 1Rx4 DDR4-2133 R ECC	S26361-F3843-E514	NO
RAM	16GB (1x16GB) 2Rx4 DDR4-2133 R ECC	S26361-F3843-E516	agreed
RAM	16GB (1x16GB) 2Rx4 DDR4-2133 R ECC	S26361-F3843-E516	agreed
RAM	32GB (1x32GB) 4Rx4 DDR4-2133 LR ECC	S26361-F3844-E517	agreed
RAM	Independent Mode Installation	S26361-F3694-E10	agreed
RAM	Performance Mode Installation	S26361-F3694-E2	agreed
FC	FC Ctrl 8Gb/s 2 Kanal LPe12002 MMF LC LP	S26361-F3961-E202	agreed
FC	PFC EP LPe16002 LP	S26361-F4994-E202	agreed
GFX	Front VGA	S26361-F1420-E130	agreed
HDD	HD SAS 12G 600GB 15K HOT PL 3.5" EP	S26361-F5532-E560	NO
HDD	4TB 7200rpm, <9,0ms, 64MB Cache, <b>512e</b>	S26361-F3904-E400	planned
HDD	HD SAS 12G 1.2TB 10K HOT PL 2.5" EP	S26361-F5543-E112	agreed
HDD	HD SAS 12G 300GB 15K HOT PL 2.5" EP	S26361-F5531-E530	agreed
HDD	HD SAS 12G 600GB 15K HOT PL 2.5" EP	S26361-F5531-E560	NO
HDD	HD SAS 12G 900GB 10K HOT PL 2.5" EP	S26361-F5543-E190	agreed
HDD	HD SAS 12G 900GB 15K HOT PL 2.5" EP		NO
HDD	SSD SATA 6G 120GB ReadIntensive 3.5" H-P	S26361-F5530-E120	NO
HDD	SSD SAS 12G 400GB High Endurance 2.5" H-P EP		agreed
HDD	SSD SAS 12G 400GB Main 2.5" H-P EP	S26361-F5298-E400	agreed
HDD	SSD SAS 12G 800GB High endurance 2.5" H-P EP		NO
HDD	SSD SAS 12G 800GB Main 2.5" H-P EP	S26361-F5298-E800	agreed

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RAID	PRAID CP400i	S26361-F3842-E1	agreed
RAID	PRAID EP400i	S26361-F5243-E1	agreed
RAID	PRAID EP420i	S26361-F5243-E2	agreed
RAID	RAID Ctrl FBU Option mit 25cm Kabel	S26361-F5243-E125	agreed
RAID	RAID Ctrl FBU Option mit 70cm Kabel	S26361-F5243-E170	agreed
RAID	TFM Modul für FBU auf PRAID EP400i	S26361-F5243-E100	agreed
RAID	TFM Modul für FBU auf PRAID EP420i	S26361-F5243-E200	agreed
LAN	Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+ Ip	S26361-F3629-E202	agreed
LAN	LAN Dummy	S26361-F5302-E100	agreed
LAN	PCNA EP 0Ce14102 2x 10Gb LP	S26361-F5250-E201	agreed
LAN	PLAN CP 2x1Gbit Cu Intel I350-T2 LP	S26361-F4610-E202	agreed
LAN	PLAN CP 2x1Gbit Cu Intel I350-T24 LP	S26361-F4610-E204	agreed
LAN	PLAN EM 2x10Gb SFP interface card	S26361-F5302-E211	agreed
LAN	PLAN EM 2x1Gb T OC114000-LOM interface	S26361-F5302-E201	agreed
LAN	PLAN CP 4x1Gbit Cu Intel I350-T4	S26361-F4610-E4	agreed
LAN	SFP+ Module Multi Mode Fiber 10GbE LC	S26361-F3986-E3	added
ODD	DVD-RW supermulti ultraslim SATA	S26361-F3778-E1	agreed
ODD	DVD ROM Ultrastlim	S26361-F3718-E2	agreed
others	Cool-safe® Advanced Thermal Design	S26361-F3776-E101	agreed
PSU	Leitung Netzanschluss Rack, 4m, grau	T26139-Y1968-E100	agreed
PSU	Modular PSU 450W platinum hp	S26113-F575-E13	agreed
PSU	Modulare SV 800W platinum hp	S26113-F574-E13	agreed
PSU	Power cable Rack, 4m, grey	T26139-Y1968-E100	agreed
PSU	Stromversorgung Blende	S26113-F574-E99	agreed
Rack	Rack Mount Kit F1 CMA QRL LV	S26361-F2735-E175	agreed
Rack	Tragewinkel 1HE in asymmetrische Racks	S26361-F4530-E11	agreed
Rack	Kabelgmt. seittl. für asym. PC Racks M1	S26361-F2735-E71	agreed
Rack	Einbau in symmetrische Racks	S26361-F4530-E10	agreed
Region	Region-Kit APAC/EMEA/Indien	S26361-F1452-E100	agreed
TPM	TPM Module	S26361-F3552-E6	agreed
SMM	iRMC S4 advanced pack	S26361-F1790-E243	freeze in 2018
PCIe switch	PPCI EP x16 Switch	S26361-F5267-E201	NO
PCIe SSD	2.5" PCIe-SSD 1.6TB, MLC	S26361-F5534-E161	NO
PCIe SSD	2.5" PCIe-SSD 2TB, MLC	S26361-F5534-E201	NO





