

## PRIMERGY RX2530 M2 1U Rack Server

**FUJITSU**

4x 3.5"



4x 2.5" (expandable to 8x2.5")



10x 2.5"



| Chapter | Folder      | Content  |
|---------|-------------|--|
|         | Cover       | List of content, Instructions for usage of this configurator, abbreviations  |
|         | Description | System Description for easier understanding                                  |
| 1       | Base        | describes base unit of TX2560 M1 and RX2560 M1                               |
| 2       |             | describes rack mount kits and services                                       |
| 3       | CPU         | Order code and Infos of E5-2600v3 series processors                          |
| 4       | RAM         | DDR4 System memory (RAM) and memory modes                                    |
| 5       | GFX         | Graphics-, Grid-cards, GPU and Xeon Co processors and other graphics options |
| 6       | HD cage     | n.a. - not required for PRIMERGY RX2530                                      |
| 7       | RAID        | SAS / RAID Controller and components   |
| 8       | ODD         | optical disk drives (DVD, DVD-rw, Blu ray)                                   |
| 9       | Backup      | LTO drives & RDX drive   |
| 10      | HD SSD      | Storage drives - PCIe SSD - SAS/SATA SSD & HDD                               |
| 11      |             | LAN Components   |
| 12      | LAN_FC_IB   | Fibre Channel Controller   |
| 13      |             | Infiniband Controller  |
| 14      |             | Power supply units, power cables, country specific op                        |
| 15      | USB devices | Keyboards, Mice, USB devices   |
| 16      | others      | System Management, ATD, RS232 port, TPM module                               |

# Instructions

This document contains basic product and configuration information supporting you in more complicated configurations.

In any case we recommend to use the PC-/SystemArchitect to make sure, that you configure a valid system.

This System configurator is divided into several chapters. They are identical to the current price list and PC-/SystemArchitect.

Please follow this document step by step from the top to the bottom.

## Chapter xx - description of chapter

Text fields with grey color offer extra information for related topics (e.g prerequisites, technical background, configuration rules, limitations, ...)

|   |
|---|
| <b>S26361-F4610-E2</b>  |
| <b>S26361-F4610-L3</b>  |
| PLAN 2x1Gb Ethern. Controller   |
| i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors |
| PCIe Gen2 x4 full height card   |
| max. 6x per system  |

<-- order code E-part (bold) --

<-- order code L-part (bold)

<-- "name" of this part

<--description of this part, in some cases as well description of content

<--requires a free PCIe slot --> means total amount of PCIe slots reduced

<--indicates how often this part can be configured in the related Server

### For further information see:

Link to datasheet:

<http://xxx>

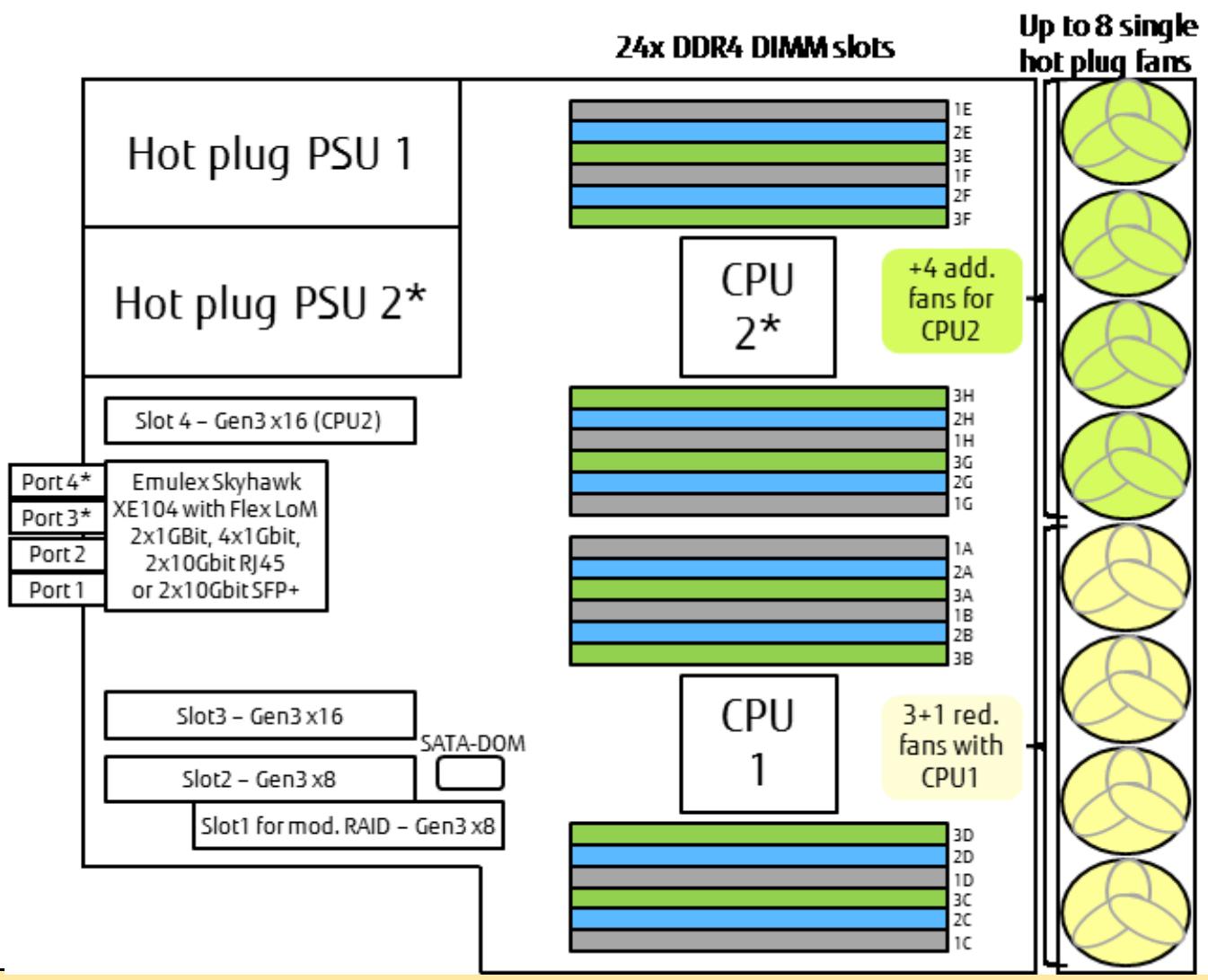
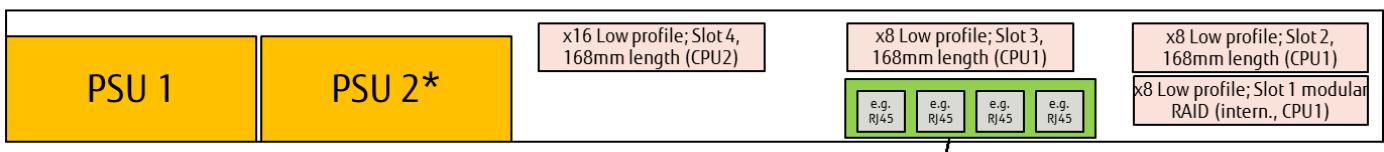
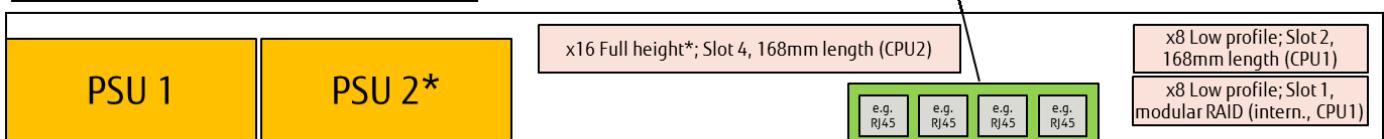
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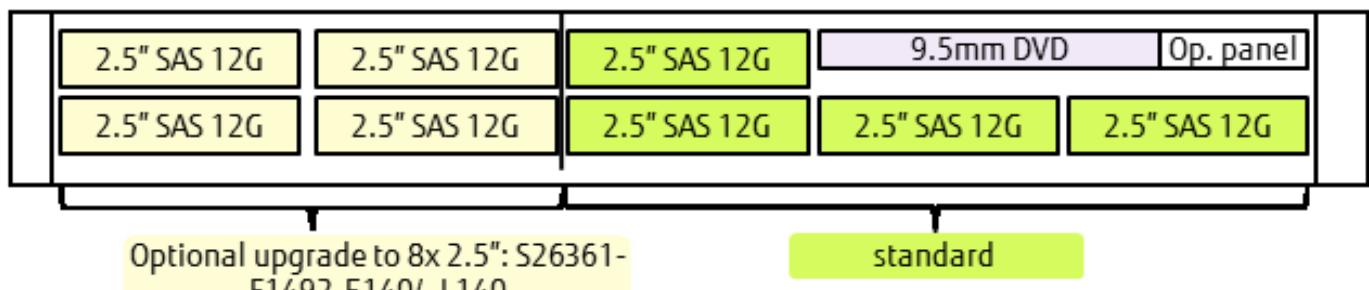
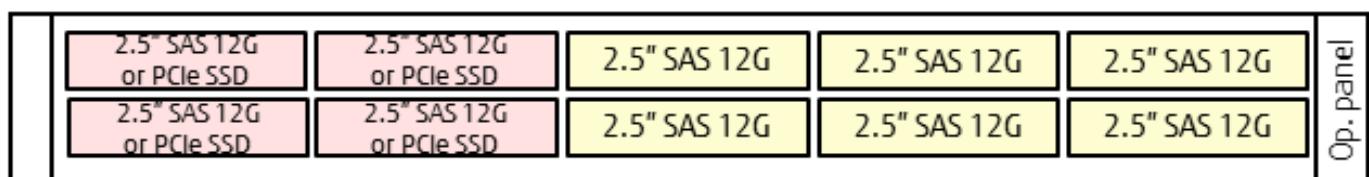
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# Abbreviations

|                 |  |   |
|-----------------|--|---|
| SAS             | Drives, RAID   | Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6GBit/s; SAS3.0 = 12GBit/s   |
| SATA            | Drives, RAID   | Serial ATA (HDD, SSD) current SATA speed = 6GBit/s  |
| HDD             | Drives   | Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)   |
| SSD             | Drives   | Solid state disk (Non volatile storage device), 2.5" (SFF)  |
| SFF             | Drives   | small form factor (=2.5")   |
| LFF             | Drives   | large form factor (=3.5")   |
| CPU             | Processor  | central processing unit ("processor")   |
| RAID            | Drives, RAID   | RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare   |
| Spaces          | OS   | Microsoft spaces, optimized in Win2012 R2 offers software RAID and storage tiering  |
| vSAN            | OS   |   |
| storage tiering | RAID   | offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")   |
| hot data        | Drives   | Data which are currently being processed  |
| cold data       | Drives   | Data which are currently not processed (only stored)  |
| ODD             | Drives   | optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)  |
| OS              | operating system   | OS=operating system - required for running, organize and administrating the server  |
| E-Part          | Part for assembly ex factory, derived from German word "Einbau" - Part | "e.g. S26361-F1234-E240" ordercode with "E" means it is either integrated into to Server (CPU, Mem, ..) or integrated in the shipping box (Keyboard, Mouse, ..) |
| L-Part          | Loose delivery, derived from German word "Lose Lieferung"-Part         | "e.g. S26361-F1234-L240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment                              |
|                 |  |   |
|                 |  |   |
|                 |  |   |
|                 |  |   |
|                 |  |   |

**PRIMERGY RX2530 M2 schematics of the System board and fans****PRIMERGY RX2530 M2 rear view with PSU, PCIe slots and dynamic LoM****Standard: RX2530 - Rear view****Option: Full height riser**

\*=option

**PRIMERGY RX2530 M2 front view with drives and operation panel****RX2530 4x3.5"- Front view****RX2530 4x2.5"- Front view****RX2530 10x2.5"- Front view**

| recommended components for RX2530 M2 | #  |
|--------------------------------------|----|
| Independant Mode installation        | 1x |
| PLAN EM 4x1Gb T interface card       | 1x |
| Region kit APAC/EMEA/India           | 1x |
| iRMC S4 advanced pack                | 1x |
| Cool safe Advanced Thermal design    | 1x |
| Modular PSU 450W platinum hot plug   | 2x |

## Chapter 1 - base unit

[Start](#)

### Power supply units & cooling

The PRIMERGY RX2530 M2 offer bays for 1x or 2x direct attached hot plug (opt. redundant) power supply units of 450W or 800W with up to 96% efficiency. The PRIMERGY RX2530 M2 are equipped with ultimate performance processor heat pipes and 3+1 (1CPU) or 7+1 (2 CPU) high performance single hot plug fans (3+1 or 7+1 redundant).

### Server Management

iRMC S4 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls You can highlight easily failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.

### Platform

Fujitsu Systemboard D3279 "made in Germany" based on Chipset Intel® C612

> 2 serial QPI links (Quick Path Interconnect)

> Up to two Xeon E5-2600 v4 series CPUs

Slots: as standard 4 PCIe slots are on Board - please see schematics in "description"

> 3 PCIe slots low profile, 167mm length @ first CPU:

Slot 1 PCIe-Gen3 x8 (internal) - only for modular RAID/SAS controller

Slot 2 PCIe-Gen3 x8

Slot 3 PCIe-Gen3 x16

> 1 PCIe slot low profile, 167mm length @ second CPU:

Slot 4 PCIe-Gen3 x8

PCIe controller population has to be according to internal or external connectivity requirements.

The system offers 1x internal PCIe slot for SAS / RAID controllers only 3x freely configurable PCIe slots for other PCIe controllers.

The required riser cards for the above configuration are part of the standard delivery.

Slot 4 can also be upgraded to PCIe Gen3 x16 full height, 167mm length (!Slot 3 and it's riser is not available in this case!)

Onboard RAID 0/1 6Gbit/s

available for up to 8x 2.5" SATA drives

System RAM up to DDR4-2400 MHz

2x12 memory slots for max. 1.5TB\* DDR4 RAM available (12 slots per CPU). Memory speed depends on CPU and configuration, please see folder "CPU" and "RAM" for further details.

\* Chipset supports with future models up to 3TB

### LAN

LAN on Motherboard based on the high performance Chip Emulex XE104 with flexible LAN connections - options for 2x1Gbit/s (RJ45), 4x1Gbit/s (RJ45), 2x10Gbit/s (RJ45), 2x10Gbit/s (SFP+) available.

### Software

\* ServerView Suite Software incl. ServerStart, ServerBooks, Management Software and Updates

### Connectivity

#### Interfaces at rear side

- 1 service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 2x USB 3.0 & 1x USB2.0

Flex LoM with 1 of these options:

RJ45: 2x1Gbit, 4x1Gbit or 2x10Gbit

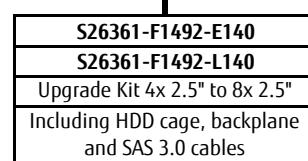
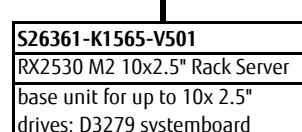
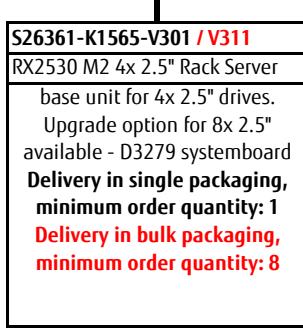
SFP+: 2x10Gbit ... or Dummy module (i.e. no LAN connector)

#### Interfaces at front

- for base units with up to 8 HDD: 2x USB 3.0
- for base units with 10HDD: 1x USB2.0 (on "ear")

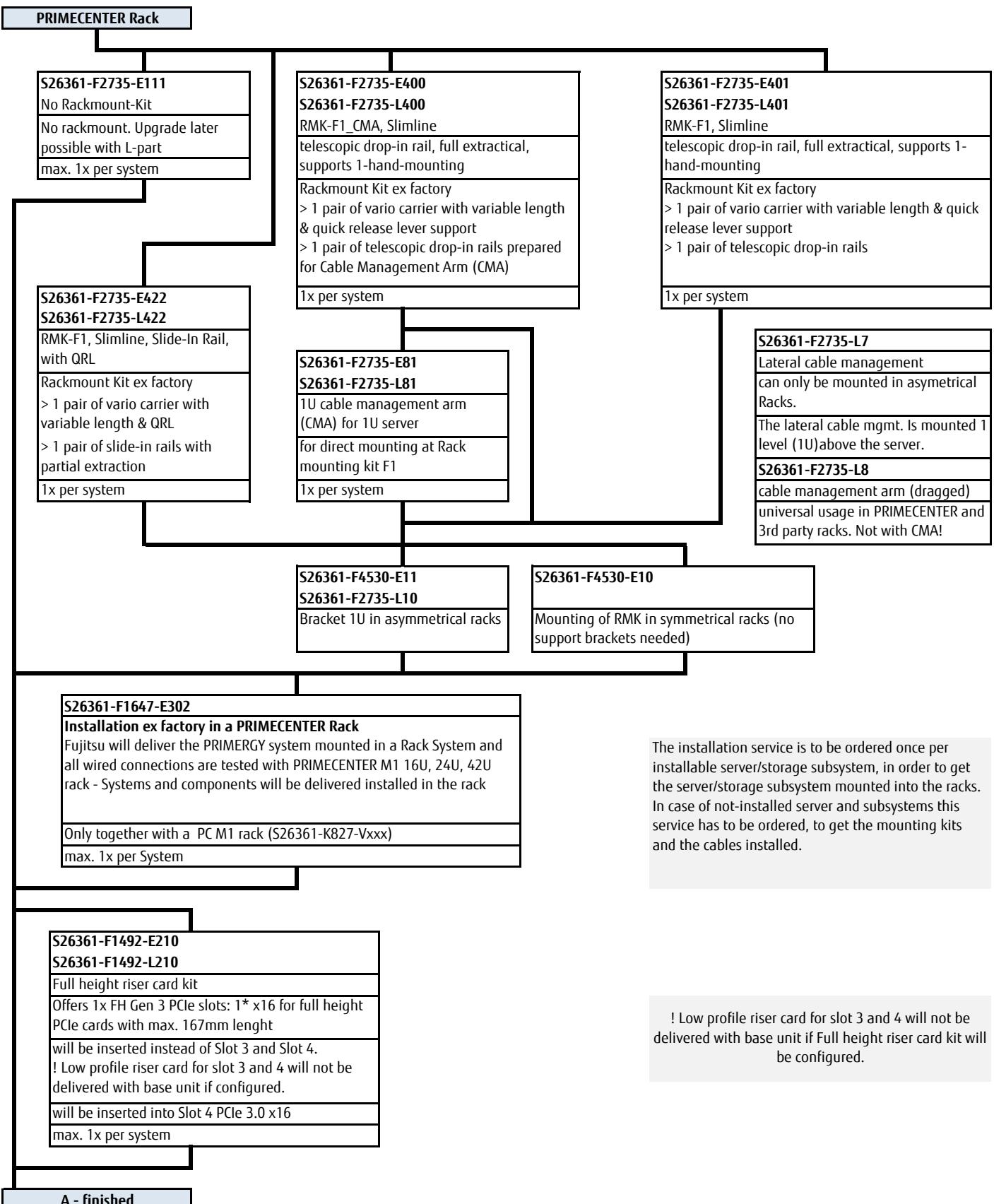
#### Interfaces internal

- 1x USB 3.0, 1x UFM
- 1x SATA DOM
- 2x 4\* SATA 6G



PRIMECENTER Rack

## Chapter 2 - Rack architecture



**Chapter 3 - CPU****B**

There are 2 processor sockets available. Please configure minimum 1 Processor, maximum 2 processors.

>> In case of Dual processor operation, processor 2 must be the same as processor 1.

>> for the processors on the left side (marked with blue headers) you may choose 1x or 2x CPUs

>> for the processors on the right side (marked with orange headers) you must choose 2x CPUs ("Dual processor only")

\* HT = Hyper Threading

**Xeon E5-26xx v4 series (R) Basic**

64-bit Intel Xeon processor supporting DDR4 @ 1.866MHz & QPI Bus @ 6.4 GT/s

|   |                          |                   |
|---|--------------------------|-------------------|
| Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W | <b>S26361-F3933-E103</b> | S26361-F3933-L303 |
| Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W | <b>S26361-F3933-E109</b> | S26361-F3933-L309 |

**Xeon E5-26xx v4 series (R) Standard**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2133 MHz & QPI Bus 8.0 GT/s

|   |                          |                   |
|---|--------------------------|-------------------|
| Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W  | <b>S26361-F3933-E120</b> | S26361-F3933-L320 |
| Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W | <b>S26361-F3933-E130</b> | S26361-F3933-L330 |
| Xeon E5-2640v4 10C/20T 2.40GHz 20MB 8.0GT/s 2133MHz 90W | <b>S26361-F3933-E140</b> | S26361-F3933-L340 |

**Xeon E5-26xx v4 series (R) Advanced**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s

|  |                          |                   |
|--|--------------------------|-------------------|
| Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W | <b>S26361-F3933-E150</b> | S26361-F3933-L350 |
| Xeon E5-2660v4 14C/28T 2.00GHz 35MB 9.6GT/s 2400MHz 105W | <b>S26361-F3933-E160</b> | S26361-F3933-L360 |
| Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W | <b>S26361-F3933-E180</b> | S26361-F3933-L380 |
| Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W | <b>S26361-F3933-E190</b> | S26361-F3933-L390 |

**Xeon E5-26xx v4 series (R) Frequency optimized**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2133 MHz & QPI Bus @ 8.0 GT/s

|   |                          |                   |
|---|--------------------------|-------------------|
| Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 85W | <b>S26361-F3933-E123</b> | S26361-F3933-L323 |
|---|--------------------------|-------------------|

**Xeon E5-26xx v4 series (R) Frequency optimized**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s

|   |                          |                   |
|---|--------------------------|-------------------|
| Xeon E5-2637v4 4C/8T 3.50GHz 15MB 9.6GT/s 2400MHz 135W  | <b>S26361-F3933-E137</b> | S26361-F3933-L337 |
| Xeon E5-2643v4 6C/12T 3.40GHz 20MB 9.6GT/s 2400MHz 135W | <b>S26361-F3933-E143</b> | S26361-F3933-L343 |
| Xeon E5-2667v4 8C/16T 3.20GHz 25MB 9.6GT/s 2400MHz 135W | <b>S26361-F3933-E167</b> | S26361-F3933-L367 |

**Xeon E5-26xx v4 series (R) High Core Count**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2400 MHz & QPI Bus @ 8.0 GT/s

|   |                          |                   |
|---|--------------------------|-------------------|
| Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W  | <b>S26361-F3933-E183</b> | S26361-F3933-L383 |
| Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W  | <b>S26361-F3933-E195</b> | S26361-F3933-L395 |
| Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W  | <b>S26361-F3933-E197</b> | S26361-F3933-L397 |
| Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W | <b>S26361-F3933-E191</b> | S26361-F3933-L391 |
| Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W  | <b>S26361-F3933-E198</b> | S26361-F3933-L398 |
| Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W  | <b>S26361-F3933-E199</b> | S26361-F3933-L399 |
| Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W | <b>S26361-F3933-E192</b> | S26361-F3933-L392 |

**Xeon E5-26xx v4 series (R) Low Power**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2133/2400 MHz & QPI Bus @ 8.0 GT/s

|  |                          |                   |
|--|--------------------------|-------------------|
| Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W | <b>S26361-F3933-E131</b> | S26361-F3933-L331 |
| Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W | <b>S26361-F3933-E151</b> | S26361-F3933-L351 |

**S26361-F3849-E100**

Cooling Kit 2nd CPU

For configuring a 2nd CPU please order the required heat pipe with this order code

**C1**

**C2**

C1

C2

**Xeon E5-26xx v4 series (R) Basic**

64-bit Intel Xeon processor supporting DDR4 @ 1.866MHz &amp; QPI Bus @ 6.4 GT/s

Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W S26361-F3933-E103

Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W S26361-F3933-E109

**Xeon E5-26xx v4 series (R) Standard**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2133 MHz &amp; QPI Bus 8.0 GT/s

Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W S26361-F3933-E120

Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W S26361-F3933-E130

Xeon E5-2640v4 10C/20T 2.40GHz 20MB 8.0GT/s 2133MHz 90W S26361-F3933-E140

**Xeon E5-26xx v4 series (R) Advanced**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2400 MHz &amp; QPI Bus @ 9.6 GT/s

Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W S26361-F3933-E150

Xeon E5-2660v4 14C/28T 2.00GHz 35MB 9.6GT/s 2400MHz 105W S26361-F3933-E160

Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W S26361-F3933-E180

Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W S26361-F3933-E190

**Xeon E5-26xx v4 series (R) Frequency optimized**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2133 MHz &amp; QPI Bus @ 8.0 GT/s

Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 85W S26361-F3933-E123

**Xeon E5-26xx v4 series (R) Frequency optimized**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 2400 MHz &amp; QPI Bus @ 9.6 GT/s

Xeon E5-2637v4 4C/8T 3.50GHz 15MB 9.6GT/s 2400MHz 135W S26361-F3933-E137

Xeon E5-2643v4 6C/12T 3.40GHz 20MB 9.6GT/s 2400MHz 135W S26361-F3933-E143

Xeon E5-2667v4 8C/16T 3.20GHz 25MB 9.6GT/s 2400MHz 135W S26361-F3933-E167

**Xeon E5-26xx v4 series (R) High Core Count**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 1866 MHz &amp; QPI Bus @ 8.0 GT/s

Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W S26361-F3933-E183

Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W S26361-F3933-E195

Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W S26361-F3933-E197

Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W S26361-F3933-E191

Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W S26361-F3933-E198

Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W S26361-F3933-E199

Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W S26361-F3933-E192

**Xeon E5-26xx v4 series (R) Low Power**

64-bit Intel Xeon processor supporting HT\*, DDR4 @ 1866 MHz &amp; QPI Bus @ 8.0 GT/s

Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W S26361-F3933-E131

Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W S26361-F3933-E151

D

## Chapter 4 - DDR4 System memory

**D**

The Systemboard of RX2530 M2, D3279, offers 24 DDR4 slots with up to 2.400MHz.

768GB DDR4 LRDIMM (12x 64GB 4R per CPU)

384GB DDR4 RDIMM (12x 32GB 2R per CPU)

=> max. 1.536GB for two CPUs (768GB per CPU), using LRDIMM

=> max. 3.072GB for two CPUs, using upcoming 8Rx4 LRDIMM technology with 128GB per module

The memory area is divided into 4 channels per CPU with 3 slots each

up to 2.400 MHz with 2DPC R-DIMM (depending on CPU\*)

up to 2.400 MHz with 2DPC LR-DIMM (depending on CPU\*)

1.866 MHz with 3DPC

DDR4 memory is operated at 1.2V

Registered and load reduced DIMM cannot be operated together in one Server.

\* = means: some CPU types support less than 2.400MHz, please check the details in the chapter "CPU"

|                         |                         |
|-------------------------|-------------------------|
| <b>S26361-F3694-E10</b> | Independent Memory Mode |
|-------------------------|-------------------------|

Independent Channel Mode allows all channels to be populated in any order. All channels must run at the same interface frequency. But each channel may run at different DIMM timings (RAS latency, CAS latency, and so forth). The slowest memory module defines to bus speed.

Configuration: minimum 1 memory module per CPU, maximum 12 memory modules per CPU

|                        |                   |
|------------------------|-------------------|
| <b>S26361-F3694-E1</b> | Rank sparing mode |
|------------------------|-------------------|

BIOS preconfiguration for rank sparing. Spare of other ranks on the same channel. Spare Rank is not shown in System Memory.

Configuration: minimum 2x 1R/2R or 1x 4R memory modul(es) per CPU, maximum 12 memory modules per CPU

|                        |                         |
|------------------------|-------------------------|
| <b>S26361-F3694-E2</b> | Performance Memory Mode |
|------------------------|-------------------------|

BIOS preconfiguration for maximum Performance. Four identical memory modules will be equipped in each slot of each channel to achieve highest memory performance. Always a multiple of 4 identical modules must be configured per CPU. All four modules are active and full capacity can be used.

Configuration: minimum 4 memory module or 8 memory module or 12 memory modules per CPU

BIOS preconfiguration for Mirror mode. Four identical memory modules are always equipped in one memory bank to use the mirrored channel mode. Only two modules contain active data, the remain two modules contain mirrored data.

Configuration: minimum 4 memory module or 8 memory module or 12 memory modules per CPU



### Resulting memory capacity / Rank Sparing Mode, 1 Channel populated

|      | RDIMM |    |      |    |      |    |       |    | LRDIMM |    |       |    |
|------|-------|----|------|----|------|----|-------|----|--------|----|-------|----|
|      | 8GB   | 1R | 16GB | 2R | 32GB | 2R | 64GB  | 4R | 64GB   | 4R | 128GB | 8R |
| 1DPC |       |    |      |    |      |    | 48GB  |    | 48GB   |    | 112GB |    |
| 2DPC | 8GB   |    | 24GB |    | 48GB |    | 112GB |    | 112GB  |    | 240GB |    |
| 3DPC | 16GB  |    | 40GB |    | 80GB |    | 176GB |    | 176GB  |    | 368GB |    |

### Registered Memory (RDIMM) with SDDC (chipkill) and ECC support

|                                    |             |                          |                          |
|------------------------------------|-------------|--------------------------|--------------------------|
| 8GB (1x8GB) 1Rx4 DDR4-2400 R ECC   | single rank | <b>S26361-F3934-E511</b> | <b>S26361-F3934-L511</b> |
| 16GB (1x16GB) 2Rx4 DDR4-2400 R ECC | Dual rank   | <b>S26361-F3934-E512</b> | <b>S26361-F3934-L512</b> |
| 32GB (1x32GB) 2Rx4 DDR4-2400 R ECC | Dual rank   | <b>S26361-F3934-E515</b> | <b>S26361-F3934-L515</b> |

### Registered Memory (RDIMM 3DS) with SDDC (chipkill) and ECC support

|                                      |           |                            |                            |
|--------------------------------------|-----------|----------------------------|----------------------------|
| 64GB (1x64GB) 4Rx4 DDR4-2400 3DS ECC | Quad rank | <b>S26361-F3934-E517**</b> | <b>S26361-F3934-L517**</b> |
|--------------------------------------|-----------|----------------------------|----------------------------|

### Registered Memory (RDIMM) without SDDC support

|                                    |           |                          |                          |
|------------------------------------|-----------|--------------------------|--------------------------|
| 8GB (1x8GB) 2Rx8 DDR4-2400 R ECC   | Dual rank | <b>S26361-F3934-E514</b> | <b>S26361-F3934-L514</b> |
| 16GB (1x16GB) 2Rx8 DDR4-2400 R ECC | Dual rank | <b>S26361-F3934-E513</b> | <b>S26361-F3934-L513</b> |

### Load Reduced Memory (LRDIMM) with SDDC (chipkill) support

|                                       |           |                           |                           |
|---------------------------------------|-----------|---------------------------|---------------------------|
| 32GB (1x32GB) 4Rx4 DDR4-2400 LR ECC   | Quad rank | <b>S26361-F3935-E515</b>  | <b>S26361-F3935-L515</b>  |
| 64GB (1x64GB) 4Rx4 DDR4-2400 LR ECC   | Quad rank | <b>S26361-F3935-E516</b>  | <b>S26361-F3935-L516</b>  |
| 128GB (1x128GB) 8Rx4 DDR4-2400 LR ECC | Quad rank | <b>S26361-F3935-E517*</b> | <b>S26361-F3935-L517*</b> |

\* late availability expected

special release only

\*\* available from Q4/2017

**E**

**Detailed information**

| Mode                     | Configuration              | RDIMM  | RDIMM | Use case, advantage                               |
|--------------------------|----------------------------|--------|-------|---|
|                          |                            | LRDIMM | x4    |   |
|                          |                            | x8     | x8    |   |
| SDDC (chipkill) support  | any                        | no     | yes   | supports detecting multi-bit errors               |
| Independent 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 performance and capacity                 |

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

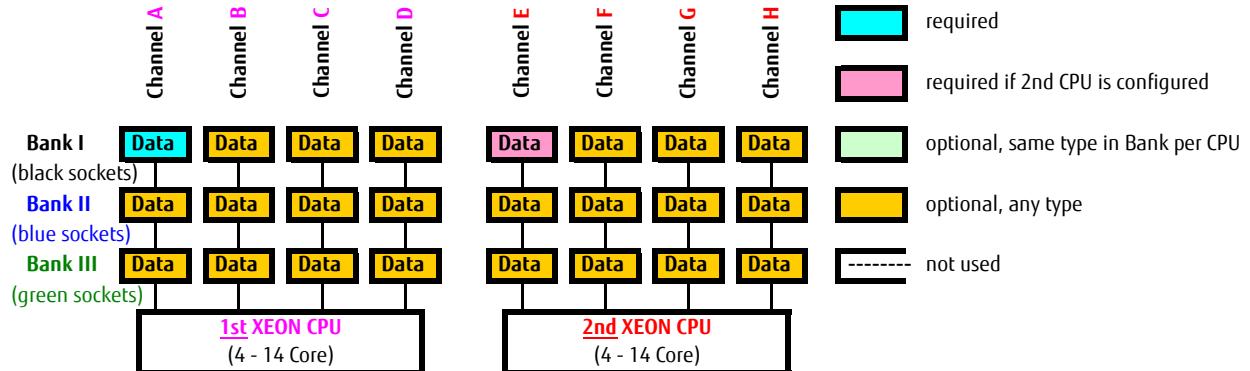
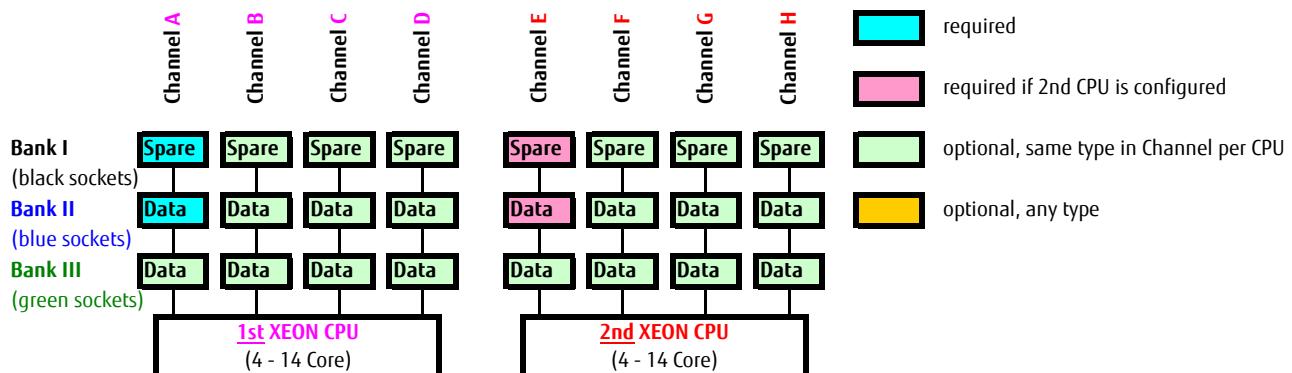
| Capacity               | Configuration       | RDIMM   | LRDIMM   | Notes                       |
|------------------------|---------------------|---------|----------|-----------------------------|
| Min. Memory per CPU    | 1 Module / CPU      | 1x8GB   | 1x64GB   | with one CPU                |
| Max. Memory per CPU    | 12 Modules / CPU    | 12x64GB | 12x128GB | with one CPU                |
| Max. Memory per System | 24 Modules / System | 1.536GB | 3.072GB  | if second CPU is configured |

Max. DDR4 memory speed depends on the memory configuration (DIMM per channel) and the type of CPU. The memory channel with the lowest speed defines the speed of all CPU channels in the system

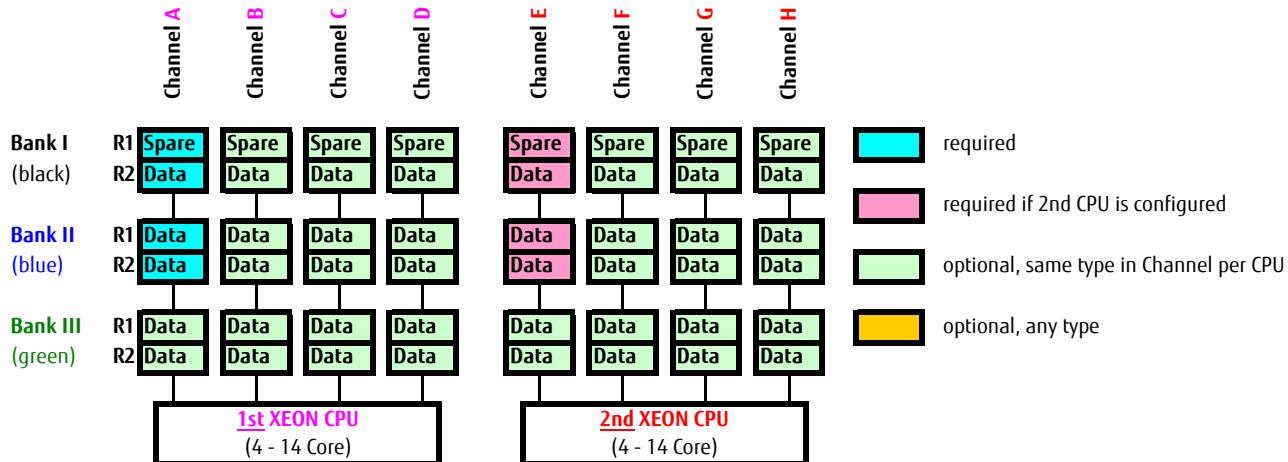
| Mem. Speed provided by CPU  | Maximum memory-bus speed [MHz] |       |       |                |       |       |
|-----------------------------|--------------------------------|-------|-------|----------------|-------|-------|
|                             | RDIMM 2400MHz                  |       |       | LRDIMM 2400MHz |       |       |
| CPU type \ Dimm per channel | 1 DPC*                         | 2 DPC | 3 DPC | 1 DPC          | 2 DPC | 3 DPC |
| CPU with 2400MHz DDR4 Bus   | 2 400                          | 2 400 | 1 866 | 2 400          | 2 400 | 2 133 |
| CPU with 2133MHz DDR4 Bus   | 2 133                          | 2 133 | 1 866 | 2 133          | 2 133 | 2 133 |
| CPU with 1866MHz DDR4 Bus   | 1 866                          | 1 866 | 1 866 | 1 866          | 1 866 | 1 866 |

The memory sockets on the Systemboards are color coded

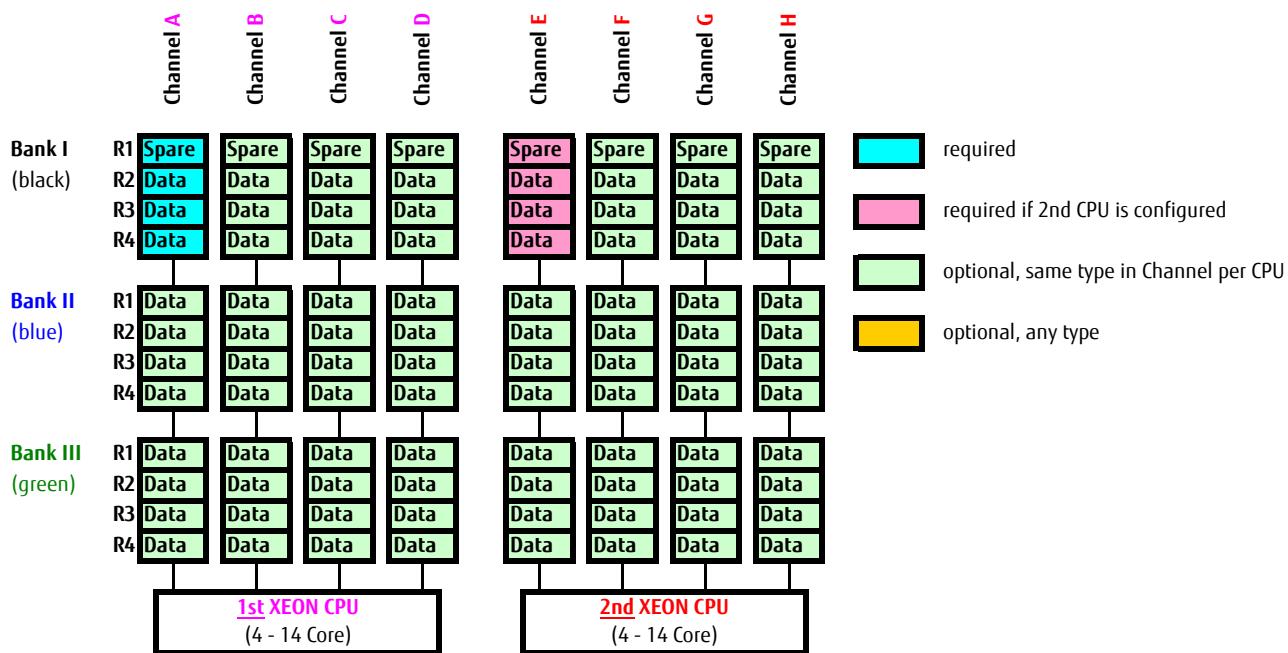
|               |               |                |              |                 |               |
|---------------|---------------|----------------|--------------|-----------------|---------------|
| <b>Bank I</b> | black sockets | <b>Bank II</b> | blue sockets | <b>Bank III</b> | green sockets |
|---------------|---------------|----------------|--------------|-----------------|---------------|

**Independent channel mode****Rank sparing mode --- 1-Rank Memory modules (R-DIMM)**

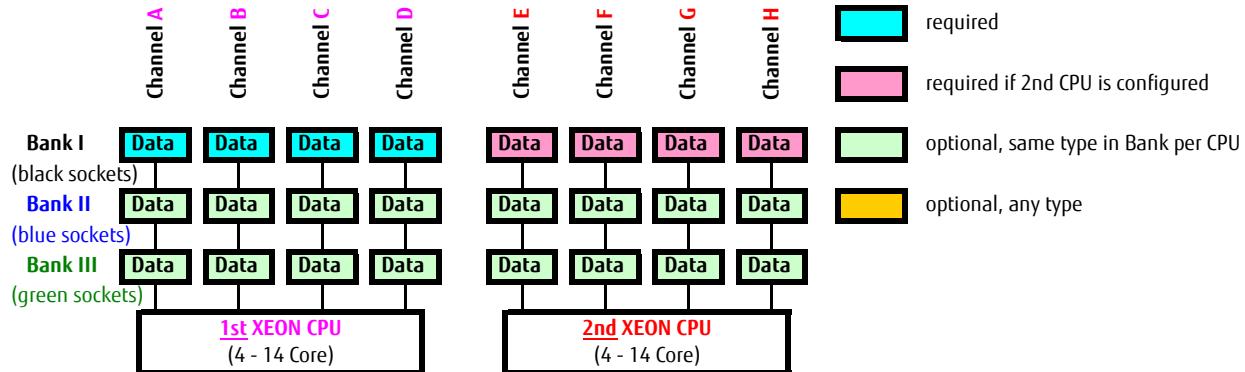
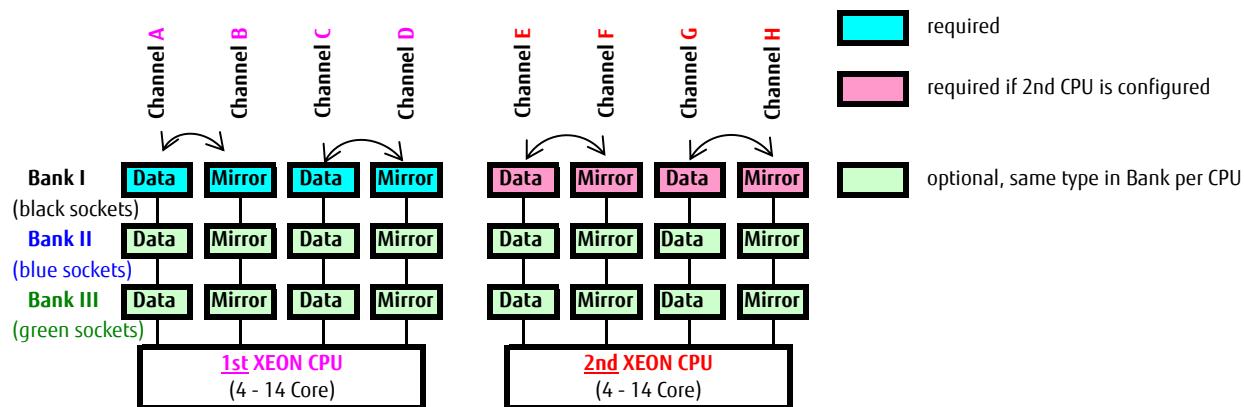
## Rank sparing mode --- 2-Rank Memory modules (R-DIMM)



## Rank sparing mode --- 4-Rank Memory modules (LR-DIMM)



Rank Sparin 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 Sparin Mode". Popula-tion rule for Rank sparing mode is to achieve max. available memory, e.g. 6 DIMMs will be spread across two channels, each with 3DPC

**Performance Channel Mode****Mirror 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.

## Chapter 5 - Graphics options

E

S26361-F1420-E131

S26361-F1420-L131

Front VGA connector (15-pin)

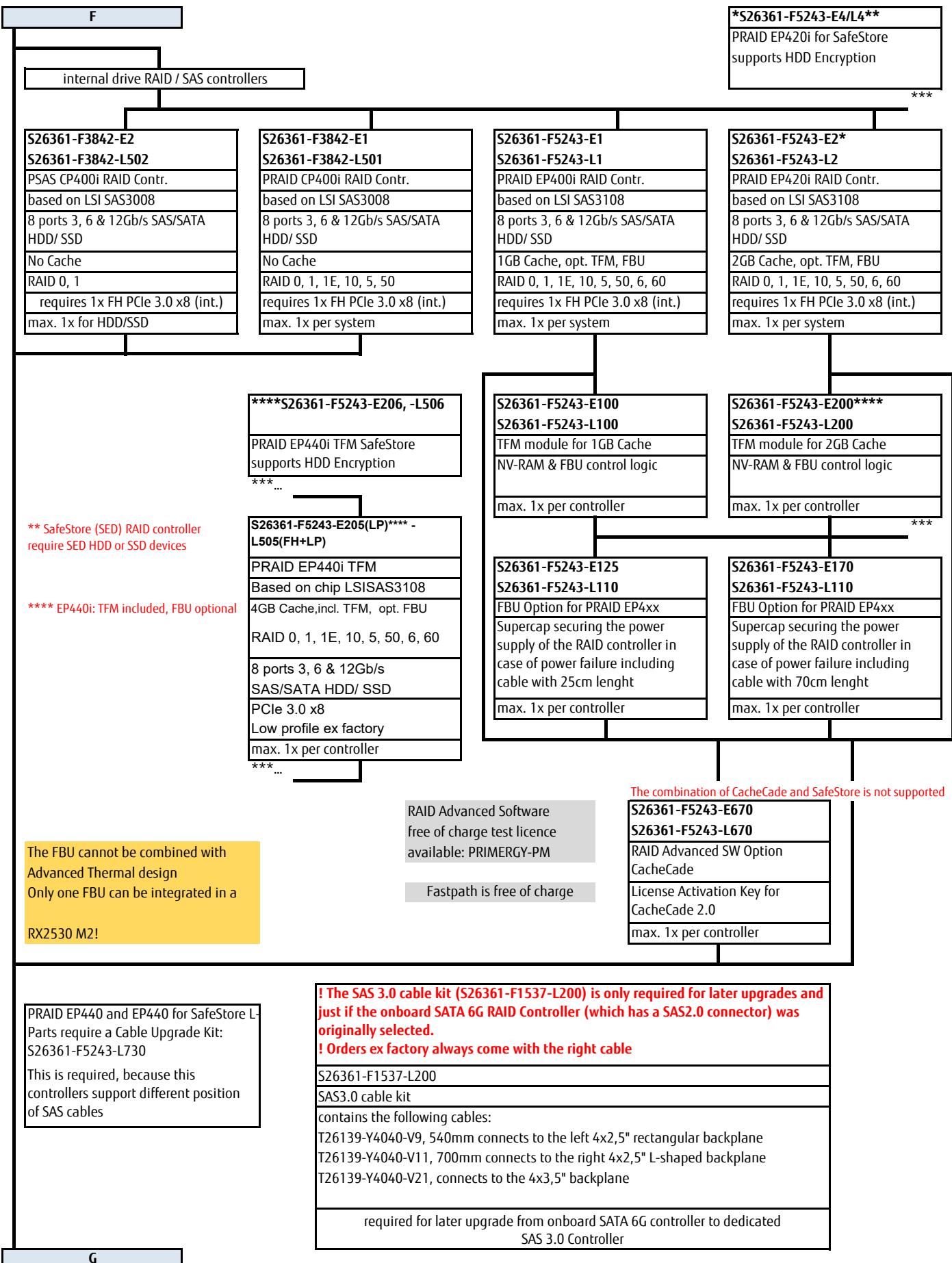
Front VGA connector (15-pin) including cable and  
front connector

for base unit S26361-K1492-V101 or -V301 only

max. 1x per system

F

## Chapter 7 - SAS / RAID Controller



**G****External drive RAID / SAS Controllers****S26361-F3845-E201 (-E1 FH)****S26361-F3845-L501**

PSAS CP400e SAS Controller

based on LSI SAS3008

8 ports external 3, 6 & 12Gb/s  
SAS/SATA HDD/ SSD or LTO drives

No Cache

no RAID

requires 1x LP PCIe 3.0 x8

max. 2x per system

**S26361-F3847-E202 (-E2 FH)****S26361-F3847-L502**

PRAID EP420e RAID Controller

based on LSI SAS 3108

8 ports external 3, 6 & 12Gb/s  
SAS/SATA HDD/ SSD or LTO drives

2GB Cache, opt. TFM, FBU

RAID 0, 1, 10, 5, 50, 6, 60

requires 1x LP PCIe 3.0 x8

max. 2x per system

**S26361-F5243-E200****S26361-F5243-L200**

TFM module for 2GB Cache

NV-RAM &amp; FBU control logic

max. 1x per controller

The FBU cannot be combined with  
Advanced Thermal design  
Only one FBU can be integrated in a  
RX2530 M2!

for base V101

**S26361-F5243-E125****S26361-F5243-L110**

FBU Option for PRAID EP4xx

Supercap securing the power supply  
of the RAID controller in case of  
power failure including cable with  
25cm lenght

max. 1x per controller

for V301, V501

**S26361-F5243-E170****S26361-F5243-L110**

FBU Option for PRAID EP4xx

Supercap securing the power  
supply of the RAID controller in  
case of power failure including  
cable with 70cm lenght

max. 1x per controller

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

Fastpath is free of charge

**S26361-F5243-E670****S26361-F5243-L670**

RAID Advanced SW Option

CacheCade

License Activation Key for  
CacheCade 2.0

max. 1x per controller

**PCIe Switch****S26361-F5267-E201****S26361-F5267-L503**

PCIe EP x16 Switch Ip

divides 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. 1x per system

This PCIe card comes in a low profile PCIe form factor  
The E-order code contains the fitting cable (length) per each  
system .  
The L-order code contains all cables for the related system.  
The switch should be installed in PCIe Slot 3. Otherwise the  
datarate should be decrease.

**H**

## Chapter 8 - ODD optical disk drives

The base units with up to 8x HDD offer 1x 9.5mm optical drive bay

| H                        |
|--------------------------|
| Config with 1x 9.5mm bay |



| S26361-F3778-E1               | S26361-F3641-E6                  | S26361-F3718-E2     |
|-------------------------------|----------------------------------|---------------------|
| S26361-F3778-L1               | S26361-F3641-L6                  | S26361-F3718-L2     |
| DVD-RW supermulti ultra slim  | Blu-ray Triple Writer ultra slim | DVD-ROM             |
| all formats, DUAL/DL, DVD-RAM | 6x BD-RW, 8x DVD, 24x CD,        | 16x DVD; 48x CD-ROM |
| only W2K, W3K and Linux       | BD DL and all CD/DVD formats     | 9.5mm black bezel   |
| 9.5mm, black bezel            | 9.5mm, black bezel               | max. 1x per system  |
| max. 1x per system            | max. 1x per system               | max. 1x per system  |

I

## Chapter 10 - storage drives

**I**

Currently, BC SAS/ BC SATA drives can not be mixed with SAS/SATA drives without restrictions. This affects V301 and V501 versions. It is possible, though, to apply a mixture between those types of following rules are obeyed: Even numbers (2,4,6,8) of BC SATA or BC SAS drives can be mixed with any number of non-BC drives. (in V301, also 7 of 8 slots can be BC SAS or BC SATA). Until further notice, in case our customer requires a drive mix as permitted above, unfortunately it can only be served via special release.

SAS drives and SATA drives can be mixed, but cannot be used in one logical RAID volume.

SATA drives can be connected to the onboard Controller (max. 8x),

SAS drives require a dedicated SAS / RAID Controller

Hard Disk Sector Format Information:

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 6.0 or earlier is not supported.

When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.

<https://kb.vmware.com/kb/2145210>

dwpd (5y): drive writes per day over 5 years.

SED (=Self Encrypting Drives) require either a RAID controller with \*SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.

It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.

HDD Classes:

Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.

Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 6G or SAS 12G .

Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.

Warranty:

SSD and SATA DOM (except for SLC) have a built-in Wear-Out indicator. In this case the warranty for such a component, as an exception to the system warranty, is restricted to the time period until the indicator reaches the exhaust level.

### 2.5" PCIe-SSD, SSD and SATADOM

#### SSD SAS 2.5" (SFF) Enterprise with hot plug/hot replace tray

| capacity | Formfactor | Interface | Category         | dwpd (5y) | order code E-part                 | order code L-part                 |
|----------|------------|-----------|------------------|-----------|-----------------------------------|-----------------------------------|
| 400GB    | 2.5" (SFF) | 12GBit/s  | mainly write     | 10        | <a href="#">S26361-F5608-E400</a> | <a href="#">S26361-F5608-L400</a> |
| 800GB    | 2.5" (SFF) | 12GBit/s  | mainly write     | 10        | <a href="#">S26361-F5608-E800</a> | <a href="#">S26361-F5608-L800</a> |
| 1.6TB    | 2.5" (SFF) | 12GBit/s  | mainly write     | 10        | <a href="#">S26361-F5608-E160</a> | <a href="#">S26361-F5608-L160</a> |
| 400GB    | 2.5" (SFF) | 12GBit/s  | SED mainly write | 10        | <a href="#">S26361-F5611-E400</a> | <a href="#">S26361-F5611-L400</a> |
| 800GB    | 2.5" (SFF) | 12GBit/s  | SED mainly write | 10        | <a href="#">S26361-F5611-E800</a> | <a href="#">S26361-F5611-L800</a> |
| 1.6TB    | 2.5" (SFF) | 12GBit/s  | SED mainly write | 10        | <a href="#">S26361-F5611-E160</a> | <a href="#">S26361-F5611-L160</a> |
| 480GB    | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5614-E480</a> | <a href="#">S26361-F5614-L480</a> |
| 960GB    | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5614-E960</a> | <a href="#">S26361-F5614-L960</a> |
| 1.92TB   | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5614-E192</a> | <a href="#">S26361-F5614-L192</a> |
| 3.84TB   | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5614-E384</a> | <a href="#">S26361-F5614-L384</a> |
| 400GB    | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5666-E400</a> | <a href="#">S26361-F5666-L400</a> |
| 800GB    | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5666-E800</a> | <a href="#">S26361-F5666-L800</a> |
| 1.6TB    | 2.5" (SFF) | 12GBit/s  | read / write     | 3         | <a href="#">S26361-F5666-E160</a> | <a href="#">S26361-F5666-L160</a> |
| 3.2TB    | 2.5" (SFF) | 12GBit/s  | read / write     | 2.3       | <a href="#">S26361-F5666-E320</a> | <a href="#">S26361-F5666-L320</a> |
| 480GB    | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5617-E480</a> | <a href="#">S26361-F5617-L480</a> |
| 960GB    | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5617-E960</a> | <a href="#">S26361-F5617-L960</a> |
| 1.92TB   | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5617-E192</a> | <a href="#">S26361-F5617-L192</a> |
| 3.84TB   | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5617-E384</a> | <a href="#">S26361-F5617-L384</a> |
| 480GB    | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5670-E480</a> | <a href="#">S26361-F5670-L480</a> |
| 960GB    | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5670-E960</a> | <a href="#">S26361-F5670-L960</a> |
| 1.92TB   | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5670-E192</a> | <a href="#">S26361-F5670-L192</a> |
| 3.84TB   | 2.5" (SFF) | 12GBit/s  | read intensive   | 1         | <a href="#">S26361-F5670-E384</a> | <a href="#">S26361-F5670-L384</a> |

max. 10x - depending on base unit & configuration

#### SSD SATA 2.5" (SFF) Enterprise with hot plug/hot replace tray

| capacity | Formfactor | Interface | Category       | dwpd (5y) | order code E-part                 | order code L-part                 |
|----------|------------|-----------|----------------|-----------|-----------------------------------|-----------------------------------|
| 240GB    | 2.5" (SFF) | 6Gb/s     | read / write   | 3         | <a href="#">S26361-F5588-E240</a> | <a href="#">S26361-F5588-L240</a> |
| 480GB    | 2.5" (SFF) | 6Gb/s     | read / write   | 3         | <a href="#">S26361-F5588-E480</a> | <a href="#">S26361-F5588-L480</a> |
| 240GB    | 2.5" (SFF) | 6Gb/s     | read / write   | 3.6       | <a href="#">S26361-F5675-E240</a> | <a href="#">S26361-F5675-L240</a> |
| 480GB    | 2.5" (SFF) | 6Gb/s     | read / write   | 3.6       | <a href="#">S26361-F5675-E480</a> | <a href="#">S26361-F5675-L480</a> |
| 960GB    | 2.5" (SFF) | 6Gb/s     | read / write   | 3         | <a href="#">S26361-F5588-E960</a> | <a href="#">S26361-F5588-L960</a> |
| 1.92TB   | 2.5" (SFF) | 6Gb/s     | read / write   | 3         | <a href="#">S26361-F5588-E192</a> | <a href="#">S26361-F5588-L192</a> |
| 120GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 0.3       | <a href="#">S26361-F5525-E120</a> | <a href="#">S26361-F5525-L120</a> |
| 800GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 0.3       | <a href="#">S26361-F5525-E800</a> | <a href="#">S26361-F5525-L800</a> |
| 240GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E240</a> | <a href="#">S26361-F5632-L240</a> |
| 480GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E480</a> | <a href="#">S26361-F5632-L480</a> |
| 800GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E800</a> | <a href="#">S26361-F5632-L800</a> |
| 960GB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E960</a> | <a href="#">S26361-F5632-L960</a> |
| 1.2TB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E120</a> | <a href="#">S26361-F5632-L120</a> |
| 1.6TB    | 2.5" (SFF) | 6Gb/s     | read intensive | 1         | <a href="#">S26361-F5632-E160</a> | <a href="#">S26361-F5632-L160</a> |

max. 10x - depending on base unit & configuration

F5675: as soon as available

**J**

J

**SATA DOM Non volatile storage drive for booting**

| capacity | FF  | Interface | Category | dwpd (5y) | order code E-part | order code L-part |
|----------|-----|-----------|----------|-----------|-------------------|-------------------|
| 64GB     | DOM | 6Gb/s     | Boot     | 0.14      | S26361-F5618-E64  | S26361-F5618-L64  |
| 128GB    | DOM | 6Gb/s     | Boot     | 0.13      | S26361-F5618-E128 | S26361-F5618-L128 |

SATADOM is designed for use as a boot drive with the Endurance Spec. above.

max. 1x per Server; connector located on Motherboard (please see folder "description"). Vmware is not supported.



Mixed configuration SATA DOM SLC with SATA DOM not allowed

**SATA DOM SLC Non volatile storage drive for booting**

| capacity | FF  | Interface | Category |  | order code E-part | order code L-part |
|----------|-----|-----------|----------|--|-------------------|-------------------|
| 64GB     | DOM | 6Gb/s     | Boot     |  | S26361-F5620-E64  | S26361-F5620-L64  |

SATADOM SLC is designed for use as a Virtual SAN boot drive.

max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi 6.0 U2 or later is supported.

**2.5" (SFF) Hard drives**

Mixed configuration 2.5" HDD BC SAS/ SATA 7.2K with 2.5" HDD SAS 10K/ 15K not allowed

**HDD SAS 2.5" 7.2K (SFF) Enterprise Business critical with hot plug/hot replace tray**

| capacity | RPM   | Interface | Cache | sector |  |  |  | order code E-part | order code L-part |
|----------|-------|-----------|-------|--------|--|--|--|-------------------|-------------------|
| 1TB      | 7 200 | 12Gb/s    | 128MB | 512n   |  |  |  | S26361-F5600-E100 | S26361-F5600-L100 |
| 2TB      | 7 200 | 12Gb/s    | 128MB | 512n   |  |  |  | S26361-F5600-E200 | S26361-F5600-L200 |
| 1TB      | 7 200 | 12Gb/s    | 128MB | 512e   |  |  |  | S26361-F5573-E100 | S26361-F5573-L100 |
| 2TB      | 7 200 | 12Gb/s    | 128MB | 512e   |  |  |  | S26361-F5573-E200 | S26361-F5573-L200 |

max. 10x - depending on base unit &amp; configuration

**HDD SAS 2.5" (SFF) Enterprise Mission Critical with hot plug/hot replace tray**

| capacity | RPM    | Interface | Cache | sector |     |  |  | order code E-part | order code L-part |
|----------|--------|-----------|-------|--------|-----|--|--|-------------------|-------------------|
| 300GB    | 10 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5550-E130 | S26361-F5550-L130 |
| 600GB    | 10 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5550-E160 | S26361-F5550-L160 |
| 900GB    | 10 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5550-E190 | S26361-F5550-L190 |
| 1.2TB    | 10 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5550-E112 | S26361-F5550-L112 |
| 300GB    | 10 000 | 12Gb/s    | 128MB | 512n   | SED |  |  | S26361-F5581-E130 | S26361-F5581-L130 |
| 600GB    | 10 000 | 12Gb/s    | 128MB | 512n   | SED |  |  | S26361-F5581-E160 | S26361-F5581-L160 |
| 1.2TB    | 10 000 | 12Gb/s    | 128MB | 512n   | SED |  |  | S26361-F5581-E112 | S26361-F5581-L112 |
| 600GB    | 10 000 | 12Gb/s    | 128MB | 512e   |     |  |  | S26361-F5543-E160 | S26361-F5543-L160 |
| 900GB    | 10 000 | 12Gb/s    | 128MB | 512e   |     |  |  | S26361-F5543-E190 | S26361-F5543-L190 |
| 1.2TB    | 10 000 | 12Gb/s    | 128MB | 512e   |     |  |  | S26361-F5543-E112 | S26361-F5543-L112 |
| 1.8TB    | 10 000 | 12Gb/s    | 128MB | 512e   |     |  |  | S26361-F5543-E118 | S26361-F5543-L118 |
| 1.8TB    | 10 000 | 12Gb/s    | 128MB | 512e   | SED |  |  | S26361-F5582-E118 | S26361-F5582-L118 |
| 300GB    | 15 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5531-E530 | S26361-F5531-L530 |
| 450GB    | 15 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5531-E545 | S26361-F5531-L545 |
| 600GB    | 15 000 | 12Gb/s    | 128MB | 512n   |     |  |  | S26361-F5531-E560 | S26361-F5531-L560 |

max. 10x - depending on base unit &amp; configuration.



Mixed configuration 2.5" HDD BC SAS/ SATA 7.2K with 2.5" HDD SAS 10K/ 15K not allowed

**HDD SATA 2.5" 7.2K (SFF) Enterprise Business critical with hot plug/hot replace tray**

| capacity | RPM   | Interface | Cache | sector |  |  |  | order code E-part | order code L-part |
|----------|-------|-----------|-------|--------|--|--|--|-------------------|-------------------|
| 1TB      | 7 200 | 6Gb/s     | 128MB | 512n   |  |  |  | S26361-F3956-E100 | S26361-F3956-L100 |
| 2TB      | 7 200 | 6Gb/s     | 128MB | 512n   |  |  |  | S26361-F3956-E200 | S26361-F3956-L200 |
| 1TB      | 7 200 | 6Gb/s     | 128MB | 512e   |  |  |  | S26361-F3907-E100 | S26361-F3907-L100 |
| 2TB      | 7 200 | 6Gb/s     | 128MB | 512e   |  |  |  | S26361-F3907-E200 | S26361-F3907-L200 |

max. 10x - depending on base unit &amp; configuration.

K

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**3.5" (LFF) Hard drives****SSD SAS 3.5" (LFF) 2.5" SSD Enterprise with 3.5" with hot plug/hot replace tray**

| capacity | Formfactor | Interface |  |  | Endurance       | dwpd (5y) | order code E-part | order code L-part |
|----------|------------|-----------|--|--|-----------------|-----------|-------------------|-------------------|
| 400GB    | 3.5" (LFF) | 12Gb/s    |  |  | Write Intensive | 10        | S26361-F5607-E400 | S26361-F5607-L400 |
| 800GB    | 3.5" (LFF) | 12Gb/s    |  |  | Write Intensive | 10        | S26361-F5607-E800 | S26361-F5607-L800 |
| 1.6TB    | 3.5" (LFF) | 12Gb/s    |  |  | Write Intensive | 10        | S26361-F5607-E160 | S26361-F5607-L160 |
| 480GB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5612-E480 | S26361-F5612-L480 |
| 960GB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5612-E960 | S26361-F5612-L960 |
| 1.92TB   | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5612-E192 | S26361-F5612-L192 |
| 3.84TB   | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5612-E384 | S26361-F5612-L384 |
| 400GB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5662-E400 | S26361-F5662-L400 |
| 800GB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5662-E800 | S26361-F5662-L800 |
| 1.6TB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 3         | S26361-F5662-E160 | S26361-F5662-L160 |
| 3.2TB    | 3.5" (LFF) | 12Gb/s    |  |  | Mixed Use       | 2.3       | S26361-F5662-E320 | S26361-F5662-L320 |
| 480GB    | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5615-E480 | S26361-F5615-L480 |
| 960GB    | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5615-E960 | S26361-F5615-L960 |
| 1.92TB   | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5615-E192 | S26361-F5615-L192 |
| 3.84TB   | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5615-E384 | S26361-F5615-L384 |
| 480GB    | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5668-E480 | S26361-F5668-L480 |
| 960GB    | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5668-E960 | S26361-F5668-L960 |
| 1.92TB   | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5668-E192 | S26361-F5668-L192 |
| 3.84TB   | 3.5" (LFF) | 12Gb/s    |  |  | Read Intensive  | 1         | S26361-F5668-E384 | S26361-F5668-L384 |

only possible in RX2530 M2 base unit with up to 4x3.5" HDD max. 4x HDD

**SSD SATA 3.5" (LFF) 2.5" Enterprise SSD with 3.5" hot plug/hot replace tray**

| capacity | Formfactor | Interface | Category       | dwpd (5y) | order code E-part | order code L-part |
|----------|------------|-----------|----------------|-----------|-------------------|-------------------|
| 240GB    | 3.5" (LFF) | 6Gb/s     | read / write   | 3         | S26361-F5589-E240 | S26361-F5589-L240 |
| 480GB    | 3.5" (LFF) | 6Gb/s     | read / write   | 3         | S26361-F5589-E480 | S26361-F5589-L480 |
| 240GB    | 3.5" (LFF) | 6Gb/s     | read / write   | 3.6       | S26361-F5673-E240 | S26361-F5673-L240 |
| 480GB    | 3.5" (LFF) | 6Gb/s     | read / write   | 3.6       | S26361-F5673-E480 | S26361-F5673-L480 |
| 960GB    | 3.5" (LFF) | 6Gb/s     | read / write   | 3         | S26361-F5589-E960 | S26361-F5589-L960 |
| 1.92TB   | 3.5" (LFF) | 6Gb/s     | read / write   | 3         | S26361-F5589-E192 | S26361-F5589-L192 |
| 120GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 0.3       | S26361-F5530-E120 | S26361-F5530-L120 |
| 800GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 0.3       | S26361-F5530-E800 | S26361-F5530-L800 |
| 240GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E240 | S26361-F5630-L240 |
| 480GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E480 | S26361-F5630-L480 |
| 800GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E800 | S26361-F5630-L800 |
| 960GB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E960 | S26361-F5630-L960 |
| 1.2TB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E120 | S26361-F5630-L120 |
| 1.6TB    | 3.5" (LFF) | 6Gb/s     | read intensive | 1         | S26361-F5630-E160 | S26361-F5630-L160 |

only possible in RX2530 M2 base unit with up to 4x3.5" HDD max. 4x HDD

F5673: as soon as available

**HDD SAS 3.5" (LFF) 2.5" Enterprise Mission critical HDD with 3.5" hot plug/hot replace tray**

| capacity | RPM    | Interface | Cache | sector |  |  | order code E-part | order code L-part |
|----------|--------|-----------|-------|--------|--|--|-------------------|-------------------|
| 300GB    | 15 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5532-E530 | S26361-F5532-L530 |
| 450GB    | 15 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5532-E545 | S26361-F5532-L545 |
| 600GB    | 15 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5532-E560 | S26361-F5532-L560 |
| 300GB    | 10 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5568-E130 | S26361-F5568-L130 |
| 600GB    | 10 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5568-E160 | S26361-F5568-L160 |
| 1.2TB    | 10 000 | 12Gb/s    | 128MB | 512n   |  |  | S26361-F5568-E112 | S26361-F5568-L112 |
| 1.8TB    | 10 000 | 12Gb/s    | 128MB | 512e   |  |  | S26361-F5569-E118 | S26361-F5569-L118 |

only possible in RX2530 M2 base unit with up to 4x3.5" HDD max. 4x HDD

8/10TB HDDs not released with PSAS CP400i (S26361-F3842-E2)

| capacity | RPM   | Interface | Cache | sector |     |  | order code E-part | order code L-part |
|----------|-------|-----------|-------|--------|-----|--|-------------------|-------------------|
| 1TB      | 7 200 | 6Gb/s     | 32MB  | 512n   |     |  | S26361-F3820-E100 | S26361-F3820-L100 |
| 2TB      | 7 200 | 6Gb/s     | 32MB  | 512n   |     |  | S26361-F3820-E200 | S26361-F3820-L200 |
| 4TB      | 7 200 | 6Gb/s     | 32MB  | 512n   |     |  | S26361-F3820-E400 | S26361-F3820-L400 |
| 2TB      | 7 200 | 12Gb/s    | 128MB | 512e   |     |  | S26361-F5571-E200 | S26361-F5571-L200 |
| 4TB      | 7 200 | 12Gb/s    | 128MB | 512e   |     |  | S26361-F5571-E400 | S26361-F5571-L400 |
| 6TB      | 7 200 | 12Gb/s    | 128MB | 512e   |     |  | S26361-F5571-E600 | S26361-F5571-L600 |
| 8TB      | 7 200 | 12Gb/s    | 256MB | 512e   |     |  | S26361-F5571-E800 | S26361-F5571-L800 |
| 10TB     | 7 200 | 12Gb/s    | 256MB | 512e   |     |  | S26361-F5571-E100 | S26361-F5571-L100 |
| 6TB      | 7 200 | 12Gb/s    | 128MB | 512e   | SED |  | S26361-F5584-E600 | S26361-F5584-L600 |
| 10TB     | 7 200 | 12Gb/s    | 256MB | 512e   | SED |  | S26361-F5624-E100 | S26361-F5624-L100 |

only possible in RX2530 M2 base unit with up to 4x3.5" HDD max. 4x HDD

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| K1   |       |           |       |        |                             |  |                   |                   |
|--|-------|-----------|-------|--------|-----------------------------|--|-------------------|-------------------|
| 8/10TB HDDs not released with PSAS CP400i (S26361-F3842-E2)                            |       |           |       |        |                             |  |                   |                   |
| <b>HDD SATA 3.5" (LFF) Enterprise Business critical with hot plug/hot replace tray</b> |       |           |       |        |                             |  |                   |                   |
| capacity   | RPM   | Interface | Cache | sector |                             |  | order code E-part | order code L-part |
| 1TB  | 7 200 | 6Gb/s     | 64MB  | 512n   |                             |  | S26361-F3950-E100 | S26361-F3950-L100 |
| 2TB  | 7 200 | 6Gb/s     | 64MB  | 512n   |                             |  | S26361-F3815-E200 | S26361-F3815-L200 |
| 4TB  | 7 200 | 6Gb/s     | 64MB  | 512n   |                             |  | S26361-F3815-E400 | S26361-F3815-L400 |
| 4TB  | 7 200 | 6Gb/s     | 128MB | 512e   | not released for Japan/APAC |  | S26361-F3904-E400 | S26361-F3904-L400 |
| 6TB  | 7 200 | 6Gb/s     | 128MB | 512e   |                             |  | S26361-F3904-E600 | S26361-F3904-L600 |
| 8TB  | 7 200 | 6Gb/s     | 256MB | 512e   |                             |  | S26361-F3904-E800 | S26361-F3904-L800 |
| 10TB   | 7 200 | 6Gb/s     | 256MB | 512e   |                             |  | S26361-F3904-E100 | S26361-F3904-L100 |
| only possible in RX2530 M2 base unit with up to 4x3.5" HDD max. 4x HDD                 |       |           |       |        |                             |  |                   |                   |

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**Chapter 11 - LAN Components**

| Dynamic LoM interface cards  |   |                    |                   |   | one DynamicLoM order code is mandatory |  |
|--|---|--------------------|-------------------|---|--|--|
| <b>Interface card to provide the external connectors for on-board LAN</b>                                      |   |                    |                   |   |  |  |
| PLAN EM blind panel  |   |                    |                   |   |  |  |
| PLAN EM 2x1Gb T interface card   | Blind panel if no DynamicLoM  | S26361-F5302-E100  | n/a               |   |  |  |
| PLAN EM 4x1Gb 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 EMEA   | 2x RJ45 plug for 10GBASE-T  | S26361-F5302-E210  | S26361-F5302-L210 |   |  |  |
| PLAN EM 2x10Gb T interface card v2 APC, JP   | 2x RJ45 plug for 10GBASE-T  | S26361-F5302-E220  | S26361-F5302-L220 |   |  |  |
| PLAN EM 2x10Gb SFP interface card  | 2x SFP+ plugs for twinax or modules<br><i>for SFP modules and cables see link</i> | S26361-F5302-E211  | S26361-F5302-L211 |   |  |  |
| required 1x per system   |   |                    |                   |   |  |  |
| 1Gb Ethernet network components  |   |                    |                   |   |  |  |
| Max. 3x LAN Controller per System (configuration of different Contr. possible)                                 |   |                    |                   |   |  |  |
| <b>1Gb Ethernet controller with RJ45 interface (1000BASE-T)</b>  |   |                    |                   |   |  |  |
| PLAN CP 2x1Gb Cu Intel I350-T2 LP  | 3x 2 port, Intel  | S26361-F4610-E202  | S26361-F4610-L502 |   |  |  |
| PLAN CP 4x1Gb Cu Intel I350-T4 LP  | 3x 4 port, Intel  | S26361-F4610-E204  | S26361-F4610-L504 |   |  |  |
| max. 3 Controller per system   |   |                    |                   |   |  |  |
| 10Gb Ethernet network components   |   |                    |                   |   |  |  |
| <b>10Gb Ethernet controller with RJ45 interface (10GBASE-T)</b>  |   |                    |                   |   |  |  |
| Eth Ctrl 2x10Gb-T PCIe x8 X540-T2 LP   | 2x 2 port NIC, Intel  | S26361-F3752-E202  | S26361-F3752-L502 |   |  |  |
| PLAN EP X550-T2 2x10GBASE-T LP   | 2x 2 port NIC, Intel  | S26361-F3948-E202  | S26361-F3948-L502 |   |  |  |
| PLAN EP Oce14102 2x 10GbBase-T LP  | 2x 2 port NIC with RDMA, Emulex   | S26361-F5557-E201  | S26361-F5557-L501 |   |  |  |
| <b>10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Fujitsu / Intel based)</b> |   |                    |                   |   |  |  |
| Eth Ctrl 2x10Gb PCIe x8 D2755 SFP+   | 2x 2 port NIC, Intel 82599 based  | S26361-F3629-E202  | S26361-F3629-L502 |   |  |  |
| <b>optional 10Gb SFP+ module with LC connector for Fujitsu / Intel based controller</b>                        |   |                    |                   |   |  |  |
| 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  |                   | see table at the<br>bottom of this page |  |  |
| SFP+ active Twinax Cable Brocade   | (best fitting cable length is defined during rack<br>installation at the factory) | S26361-F3873-E500  |                   |   |  |  |
| SFP+ passive Twinax Cable Cisco  | 2x  | S26361-F4571-E500  |                   |   |  |  |
| max. 2x SFP+ or Twinax Cable per controller  |   |                    |                   |   |  |  |
| <b>10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)</b>                |   |                    |                   |   |  |  |
| PLAN EP Oce14102 2x10Gb LP   | 2x 2 port NIC with RDMA, Emulex   | S26361-F5536-E202  | S26361-F5536-L502 |   |  |  |
| PCNA EP Oce14102 2x 10Gb LP  | 2x 2 port CNA with FCoE & RDMA, Emulex  | S26361-F5250-E201  | S26361-F5250-L501 |   |  |  |
| PCNA EP Oce14102 2x 10Gb DMF LP  | 1x 2 port CNA with DMF for PAN, Emulex  | S26361-F5250-E210  | S26361-F5250-L510 |   |  |  |
| <b>optional 10Gb SFP+ module with LC connector for Emulex controller</b>                                       |   |                    |                   |   |  |  |
| 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  |                   | see table at the<br>bottom of this page |  |  |
| SFP+ active Twinax Cable Brocade   | (best fitting cable length is defined during rack<br>installation at the factory) | S26361-F3873-E500  |                   |   |  |  |
| SFP+ passive Twinax Cable Cisco  | 2x  | S26361-F4571-E500  |                   |   |  |  |
| max. 2x SFP+ or Twinax Cable per controller  |   |                    |                   |   |  |  |
| max. 2 Controller per system   |   |                    |                   |   |  |  |
| 25/10Gb Ethernet network components  |   |                    |                   |   |  |  |
| <b>25/10Gb Ethernet controller with 2x SFP28 cages (for twinax cables or optical transceiver SFP+ modules)</b> |   |                    |                   |   |  |  |
| Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port                                 |   |                    |                   |   |  |  |
| PLAN EP QL45212 2x25Gb LP  | 2x Dual Port NIC, RoCE RDMA, WS2016, Ologic                                       | S26361-F5622-E202  | S26361-F5622-L502 |   |  |  |
| <b>optional 25Gb SFP28 module with LC connector for Fujitsu / Intel / Qlogic based controller</b>              |   |                    |                   |   |  |  |
| Twinax Anschlussplatz Primergy   | 2x virtual connector for twinax cables  | V:TWX CONNECTOR-PY |                   |   |  |  |
| SFP28 Twinaxial Cable Fujitsu  | 2x customized cable length  | future             |                   | future                                  |  |  |
| SFP28 Twinax Cable Brocade   | (best fitting cable length is defined during rack<br>installation at the factory) | future             |                   |   |  |  |
| max. 2x SFP28 Twinax Cable per controller  |   |                    |                   |   |  |  |
| <b>optional 10Gb SFP+ module with LC connector for Fujitsu / Intel / Qlogic based controller</b>               |   |                    |                   |   |  |  |
| SFP+ Transceiver Module MMF 10GbE LC   | 2x MMF / SR SFP+ module, up to 400m   | S26361-F3986-E3    | S26361-F3986-L3   |   |  |  |
| SFP+ Transceiver 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  |                   | see table at the<br>bottom of this page |  |  |
| SFP+ active Twinax Cable Brocade   | (best fitting cable length is defined during rack<br>installation at the factory) | S26361-F3873-E500  |                   |   |  |  |
| max. 2x SFP+ or Twinax Cable per controller  |   |                    |                   |   |  |  |
| max. 2 Controller per system   |   |                    |                   |   |  |  |
| special release only; max 1 controller   |   |                    |                   |   |  |  |
| <b>40Gb Ethernet controller with QSFP+ interface (for QSFP+ modules or twinax cables, Emulex)</b>              |   |                    |                   |   |  |  |
| PCNA EP Oce14401 1x 40Gb LP  | 1x 2x QSFP+ plugs for twinax or modules   | S26361-F5539-E201  | S26361-F5539-L501 |   |  |  |
| <b>optional 40Gb QSFP+ module with MTO connector for Emulex controller</b>                                     |   |                    |                   |   |  |  |
| 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  |                   | see table at the<br>bottom of this page |  |  |
| QSFP+ aktives Twinax Kabel Brocade   | (best fitting cable length is defined during rack<br>installation at the factory) | S26361-F5317-E40   |                   |   |  |  |
| max. 1x QSFP+ or Twinax Cable per controller   |   |                    |                   |   |  |  |
| max. 2 Controller per system   |   |                    |                   |   |  |  |

### Network cables for later upgrade

| <b>Fujitsu active SFP+ Twinax 10Gb cable</b> |                   |
|--|-------------------|
| 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 |

| <b>Fujitsu QSFP+ / QSFP+ Twinax 40Gb cable</b> |                   |
|--|-------------------|
| 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 |

| <b>Brocade active SFP+ Twinax 10Gb cable</b> |                   |
|--|-------------------|
| 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 |

| <b>Brocade active QSFP+ / QSFP+ Twinax 40Gb cable</b>  |                    |
|--|--------------------|
| 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   |
| 40GbE Direct Attached QSFP-QSFP, 10m, 1pack            | D:QSFP-QSFP-AOC10L |
| <b>Brocade active QSFP+ / 4xSFP+ Twinax 40Gb cable</b> |                    |
| 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  |
| 4x10GbE Direct QSFP-4SFP Cable, 10m, 1-pack            | D:QSFP-4SFP-AOC10L |

### Chapter 12 - Fibre Channel Controller

| <b>32Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)</b> |    |                                      |                   |                   |
|--|----|--------------------------------------|-------------------|-------------------|
| Triple speed support - supports 32Gb, 16Gb, and 8Gb  |    |                                      |                   |                   |
| PFC EP LPe32000 1x 32Gb LP   | 2x | 1 port, low profile, Broadcom/Emulex | S26361-F4044-E201 | S26361-F4044-L501 |
| PFC EP LPe32002 2x 32Gb LP   | 2x | 2 port, low profile, Broadcom/Emulex | S26361-F4044-E202 | S26361-F4044-L502 |
| <b>16Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)</b> |    |                                      |                   |                   |
| Dual speed support - supports 16Gb and 8Gb   |    |                                      |                   |                   |
| PFC EP LPe31000 1x 16Gb Emulex LP  | 3x | 1 port, low profile, Emulex          | S26361-F5596-E201 | S26361-F5596-L501 |
| PFC EP LPe31002 2x 16Gb Emulex LP  | 3x | 2 port, low profile, Emulex          | S26361-F5596-E202 | S26361-F5596-L502 |
| PFC EP QLE2690 1x 16Gb LP  | 3x | 1 port, low profile, Qlogic          | S26361-F5580-E201 | S26361-F5580-L501 |
| PFC EP QLE2692 2x 16Gb LP  | 3x | 2 port, low profile, Qlogic          | S26361-F5580-E202 | S26361-F5580-L502 |
| <b>16Gb Fibre Channel controller generation 5 with LC interface for 50µm optical cables (OM3 or OM4)</b> |    |                                      |                   |                   |
| Predecessor - Dual speed support - supports 16Gb and 8Gb   |    |                                      |                   |                   |
| PFC EP LPe16000 1x 16Gb LP   | 3x | 1 port, low profile, Emulex          | S26361-F4994-E201 | S26361-F4994-L501 |
| PFC EP LPe16002 2x 16Gb LP   | 3x | 2 port, low profile, Emulex          | S26361-F4994-E202 | S26361-F4994-L502 |
| PFC EP QLE2670 1x 16Gb LP  | 3x | 1 port, low profile, Qlogic          | S26361-F5313-E201 | S26361-F5313-L501 |
| PFC EP QLE2672 2x 16Gb LP  | 3x | 2 port, low profile, Qlogic          | S26361-F5313-E202 | S26361-F5313-L502 |
| <b>8Gb Fibre Channel controller generation 4 with LC interface for 50µm optical cables (OM3 or OM4)</b>  |    |                                      |                   |                   |
| Dual speed support - supports 8Gb and 4Gb  |    |                                      |                   |                   |
| FC Ctrl 8Gb/s 1 Kanal LPe1250 MMF LC LP  | 3x | 1 port, low profile, Emulex          | S26361-F3961-E201 | S26361-F3961-L201 |
| FC Ctrl 8Gb/s 2 Kanal LPe12002 MMF LC LP   | 3x | 2 port, low profile, Emulex          | S26361-F3961-E202 | S26361-F3961-L202 |
| FC Ctrl 8Gb/s 1 Kanal QLE2560 MMF LC LP  | 3x | 1 port, low profile, Qlogic          | S26361-F3631-E201 | S26361-F3631-L201 |
| FC Ctrl 8Gb/s 2 Kanal QLE2562 MMF LC LP  | 3x | 2 port, low profile, Qlogic          | S26361-F3631-E202 | S26361-F3631-L202 |
| max. 3 Controller per system (mixed configurations are supported)  |    |                                      |                   |                   |

as soon as available, GA planned Q1/2017

### Chapter 13 - Infiniband Controllers

|   |  |
|---|--|
| <b>will be EoL on 12/31/2016</b>  |  |
| <b>S26361-F4475-E122/E222</b>   | <b>S26361-F4475-E103/E203</b>  |
| <b>S26361-F4475-L122/L22</b>  | <b>S26361-F4475-L103/L203</b>  |
| PIB EP QLE7340e/ 7342e  | IB HCA 40Gb 1 / 2channel QDR   |
| Intel IB HCA 1x/2x 40Gb PCIe Gen2 (5GT/s)   | 40GbBit 1 / 2channel Infiniband Controller<br>QDR technology (8.0GT/s) |
| 1x / 2x Q-SFP+ connector  | 1x / 2x Q-SFP+ connector   |
| PCIe Gen2 x8 low profile Card, 170mm  | PCIe Gen3 x8 low profile Card, 170mm                                   |
| max. 2x per system  | max. 2x per system   |
| <b>S26361-F3996-E203</b>  | <b>S26361-F3996-E210</b>   |
| Intel IB Cu Cable 40Gb  | Intel IB FO Cable 40Gb   |
| QSFP, 3m  | QSFP, 10m  |
| max. 1/ 2x per Controller   | max. 1/ 2x per Controller  |
| <b>S26361-F5540-E102/E202</b>   | <b>S26361-F5562-E10 / L10</b>  |
| <b>S26361-F5540-L102/L202</b>   | <b>POP EP 100Gb 1 Channel</b>  |
| IB HCA 10Gb 1 / 2channel EDR  | 100GbBit 1 channel Omni Path HFI Card                                  |
| 100GbBit 1 / 2channel Infiniband Controller<br>EDR technology (8.0GT/s)                   | (8.0GT/s)  |
| 1x / 2x Q-SFP+ connector  | 1x Q-SFP+ connector  |
| PCIe Gen3 x16 low profile Card, 170mm   | PCIe Gen3 x16 low profile Card, 170mm                                  |
| max. 2x per system  | max. 2x per system   |
| <b>S26361-F5549-E561/-E563</b>  | <b>S26361-F5563-E150/-E200/-E300</b>                                   |
| IB Cu Cable 100Gb   | Omni Passive Cable 100Gb   |
| QSFP, 1 or 3m   | QSFP, 1.5m or 2m or 3m   |
| max. 1/ 2x per Controller   | max. 1 per Controller  |
| Copper cable are also available for loose delivery  |  |
| S26361-F5549-L561, QSFP, IB 100Gb, 1m   |  |
| S26361-F5549-L563, QSFP, IB 100Gb, 3m   |  |
| <b>M</b>  |  |
| Max. 2x Omni Path Card per System (configuration of different Controllers NOT supported ) |  |
| Max. 2x IB Controller per System (configuration of different Controllers NOT supported )  |  |

## Chapter 14 - Power supply unit, power cable, country specific options

**M**

|   |   |   |   |
|---|---|---|---|
| <b>S26113-F575-E13</b><br><b>S26113-F575-L13</b><br>450W platinum power supply unit<br>450W PSU module platinum 1st or 2nd PSU for redundancy. 94% efficiency<br>100-240V, 50-60Hz<br>occupies hot plug PSU slot<br>min. 1 / max. 2x per system | <b>S26113-F574-E13</b><br><b>S26113-F574-L13</b><br>800W platinum power supply unit<br>800W PSU module platinum 1st or 2nd PSU for redundancy. 94% efficiency<br>100-240V, 50-60Hz<br>occupies hot plug PSU slot<br>min. 1 / max. 2x per system | <b>S26113-F615-E10</b><br><b>S26113-F615-L10</b><br>800W titanium power supply unit<br>800W PSU module titanium 1st or 2nd PSU for redundancy. 96% efficiency<br>110V range not supported<br>220-240V only, 50Hz<br>occupies hot plug PSU slot<br>min. 1 / max. 2x per system | <b>S26113-F624-E10*</b><br><b>S26113-F624-L10*</b><br>800W -48V DC power supply unit<br>800W -48 DC PSU module platinum 1st or 2nd PSU for redundancy. 92% efficiency<br>48V DC, special power cable<br>occupies hot plug PSU slot<br>min. 1 / max. 2x per system |
|---|---|---|---|

|   |
|---|
| <b>S26113-F574-E99</b><br><br>Dummy module instead PSU<br>Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped<br><br>closes hot plug PSU slot<br>max. 1x per system |
|---|

### Power cord option for Rack Server, 4m, grey (1x per PSU)

|                           |   |
|---------------------------|---|
| <b>T26139-Y1968-E100</b>  | Powercord for rack, IEC 320 C14 connector |
| <b>T26139-Y1757-E/L10</b> | Taiwan, 1.8m                              |
| <b>T26139-Y1742-E10</b>   | USA, Canada, 1.8m, black                  |
| <b>T26139-Y3850-E10</b>   | no power cord                             |

### S26361-F3301-E123

Certification for India  
! Only with "no powercord option"  
max. 1x per system

### S26361-F3301-E120

Certification for China (CCC)  
! Only with "no powercord option"  
max. 1x per system

### S26361-F1452-E100

Region Kit EMEA / Asia / Pacific

### S26361-F1452-E130

Region Kit Amerika

as soon as available

### \*Power cord option for Rack Server, 4m, black (1x per 48V DC PSU)

|                           |                               |
|---------------------------|-------------------------------|
| <b>T26139-Y4024-E/L10</b> | Power Cord -48V DC, 4m, black |
|---------------------------|-------------------------------|

**N**

## Chapter 15 - Accessories

N

<http://www.fujitsu.com/fts/products/computing/peripheral/accessories/index-facts.html>**USB sticks (FOR PROJECTS ONLY) - no standard release**

|  |  |                   |
|--|--|-------------------|
| ADATA USB 3.0 Flash Stick UE700 – 32GB |  | S26391-F6048-L332 |
| ADATA USB 3.0 Flash Stick UE700 – 64GB |  | S26391-F6048-L364 |

**USB Optical Disc Drive**

|  |                  |
|--|------------------|
| External Ultra Slim Portable DVD Writer (Hitachi-LG) | S26341-F103-L142 |
|--|------------------|



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## Chapter 16 - others

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**S26361-F1790-E243****S26361-F1790-L244**

iRMC S4 advanced pack

integrated remote Management controller activation key for graphical console redirection and remote media redirection

max. 1x per system

Advanced Thermal design cannot be combined with the Flash backup unit of the RAID controllers

**S26361-F3776-E240**

Cool-safe ® Advanced Thermal design 40°C

enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings

this setting can be activated ex factory only

max. 1x per system

**S26361-F3776-E245**

Cool-safe ® Advanced Thermal design 45°C

enables the PRIMERGY Server to cope with temperatures from 5-45° in operating mode due to extended Fan settings

this setting can be activated ex factory only

max. 1x per system

**S26361-F3552-E6****S26361-F3552-L6**

TPM 1.2 Module

max. 1x per system

**S26361-F3552-E10****S26361-F3552-L10**

TPM 2.0 Module

max. 1x per system

**S26361-F3120-E3****S26361-F3120-L3**

serial port (RS232)

serial port (RS232) mounted on a low profile PCIe slot

max. 1x per system

**S26361-F3552-L23**

TPM 1.2 Module

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Your Server is ready

| Date of change<br>[dd.mm.yyyy] | Folder / order code / description                                       | Name              | What has been changed / comment                          |
|--------------------------------|---|-------------------|--|
|                                |   |                   |  |
| 01.04.2016                     | PY RX2530 M2  |                   | First Release  |
| 10.05.2016                     | S26361-F5580-xxxx   | Freise, Peter     | QLE269x finally released                                 |
| 19.05.2016                     | S26361-F3926-*  | Karakas, Özcan    | 2.5 BC-SAS HDDs removed.                                 |
| 19.05.2016                     | S26361-F3816-*  | Karakas, Özcan    | 2.5 BC-SATA HDDs removed.                                |
| 02.06.2016                     | S26361-F5243-E4/L4  | Seil, Fabian      | added  |
| 16.06.2016                     | S26361-F3552-L23  | Seil, Fabian      | added TPM 1.2 Module                                     |
| 22.06.2016                     | S26361-F3934-E517   | Ruf, Klaus-Dieter | 64GB 3DS RDIMM added                                     |
| 12.07.2016                     | S26361-F5600-*  | Sudo, Tatsuya     | added  |
| 13.07.2016                     |   |                   | box numbering of document updated                        |
| 15.07.2016                     | S26361-F5607/F5608-*  | Sudo, Tatsuya     | added  |
| 15.07.2016                     | S26361-F5612/F5614/F5615/F5617-*  | Sudo, Tatsuya     | added  |
| 05.08.2016                     | S26361-F5600-*  | Sudo, Tatsuya     | now available  |
| 05.08.2016                     | S26361-F3956-*  | Sudo, Tatsuya     | added  |
| 02.08.2016                     | S26361-F3935-E515/L515  | Seil, Fabian      | added  |
| 19.09.2016                     | T26139-Y4024-E/L10  | Johannes Linne    | added Power Cord -48V DC, 4m, black                      |
| 20.09.2016                     | LAN / S26361-F5622-E202, -L502  | Lösch, Ulrich     | Added: PLAN EP QL45212                                   |
| 27.09.2016                     |   | Seil, Fabian      | Memory page updated                                      |
| 26.10.2016                     | S26361-F3933-L367   | Seil, Fabian      | added  |
| 27.10.2016                     | S26361-F3933-E192   | Seil, Fabian      | added  |
| 31.10.2016                     | HD_SSD / SSD SAS  | Sudo, Tatsuya     | updated  |
| 31.10.2016                     | HD_SSD / S26361-F3956-E100/L100   | Sudo, Tatsuya     | added  |
| 31.10.2016                     | LAN   | Lösch, Ulrich     | Yellow highlighting removed from PLAN EP QL45212         |
| 31.10.2016                     | FC  | Lösch, Ulrich     | Yellow highlighting removed from PFC EP LPe3100X         |
| 01.11.2016                     | HD_SSD / S26361-F5620-E64/L64   | Sudo, Tatsuya     | added  |
| 03.11.2016                     | S26341-F103-L140  | Seil, Fabian      | changed to new USB Optical Disc Drive                    |
| 08.11.2016                     | S26361-F5302-E220, -L220  | Lösch, Ulrich     | New product: PLAN EM 2x10Gb T interface card APC, JP     |
| 23.11.2016                     | LAN   | Seil, Fabian      | New Fibre Channel Controller added                       |
| 13.12.2016                     | S26361-F5243-E4/L4  | Seil, Fabian      | V550 for EMEA only                                       |
| 21.12.2016                     | HD_SSD / S26361-F3904/F5571-E800/E100                                   | Sudo, Tatsuya     | added  |
| 21.12.2016                     | HD_SSD / S26361-F5630/F5632-*   | Sudo, Tatsuya     | added  |
| 26.12.2016                     | HD_SSD / SED  | Sudo, Tatsuya     | added  |
| 11.01.2017                     | S26361-F3933-L3*  | Seil, Fabian      | loose components added                                   |
| 17.01.2017                     | HD_SSD / 8/10TB HDDs  | Sudou, Tatsuya    | Info-Text added  |
| 24.01.2017                     | RAM   | Seil, Fabian      | Memory speed corrected                                   |
| 07.02.2017                     | HD_SSD / S26361-F5618-*   | Sudou, Tatsuya    | added  |
| 08.02.2017                     | S26361-F5243-E4/L4  | Seil, Fabian      | comment added  |
| 14.02.2017                     | S26361-F5243-E5, E205, L505,<br>E6, E206, L506<br>and S26361-F5243-L730 | Seil, Fabian      | Included PRAID EP440i + EP440i for Safestore + Cable Set |
| 08.03.2017                     | S26361-F3948-E202/L502  | Seil, Fabian      | added  |
| 14.03.2017                     | S26361-F3933-L3*  | Seil, Fabian      | loose components added                                   |
| 14.03.2017                     | S26361-F3934-E517/L517  | Seil, Fabian      | comment added  |
| 14.03.2017                     | SED controller, SED drives  | Johannes Linne    | added comment to allow SED ctrl. or SED Drive only       |
| 23.03.2017                     | HD_SSD / S26361-F5618-* / F5583-*                                       | Sudou, Tatsuya    | Endurance updated / removed                              |
| 12.04.2017                     | HD_SSD / SATA DOM SLC   | Sudou, Tatsuya    | comment updated  |
| 27.04.2017                     | T26139-Y1757-E/L10  | Seil, Fabian      | powercord for Taiwan added                               |
| 27.04.2017                     | USB Devices   | M.Maridakis       | New ext. ODD added                                       |
| 27.04.2017                     | PLAN EP QL45212   | U.Lösch           | updated  |
| 03.05.2017                     | RAID  | Seil, Fabian      | EP440i info changed                                      |
| 06.06.2017                     | HD_SSD / F5666/F5670/F5662/F5668-*                                      | Sudou, Tatsuya    | added  |
| 06.06.2017                     | HD_SSD / F5588/F5589-E120 /   | Sudou, Tatsuya    | F5525/F5530-E240/E480 / F5522-E64/E128 removed           |
| 06.06.2017                     | S26361-F5243-E206, -L506, -E205, -L505                                  | Seil, Fabian      | product name changed                                     |
| 13.06.2017                     | RAID  | Seil, Fabian      | descriptions of FBU options changed                      |
| 24.07.2017                     | HD_SSD / F5673/F5675-*  | Sudou, Tatsuya    | added  |
| 05.09.2017                     | HD_SSD / F5534/F5546-*  | Sudou, Tatsuya    | removed (EOL)  |
| 19.10.2017                     | HD_SSD / F5298/F5320/F5592/F5593-*                                      | Sudou, Tatsuya    | removed (EOL)  |
| 25.10.2017                     | RAID  | Spörl, Anna       | note in Z26S3 changed                                    |
| 25.10.2017                     | S26113-F624-E10 48V DC PSU  | Linne, Johannes   | change efficiency 92%                                    |