FUJITSU

PRIMERGY TX300 S8
PRIMERGY RX350 S8

System configurator and order-information guide

Contents

Instructions

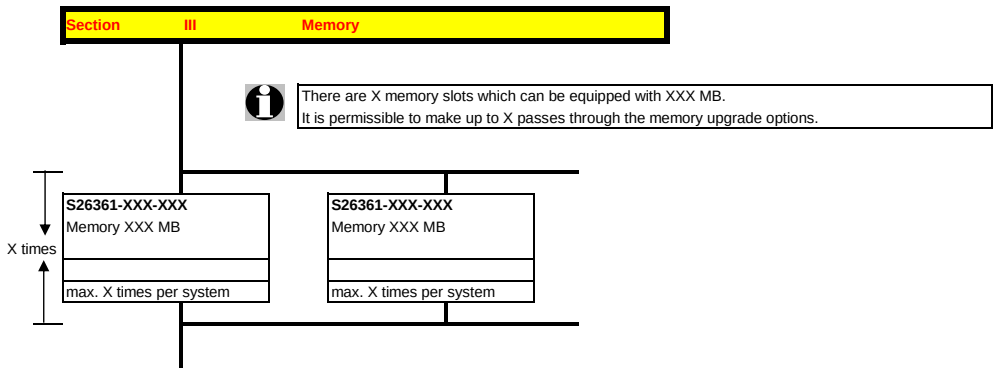
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

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

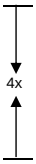
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

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

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 4x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.

For further information see:

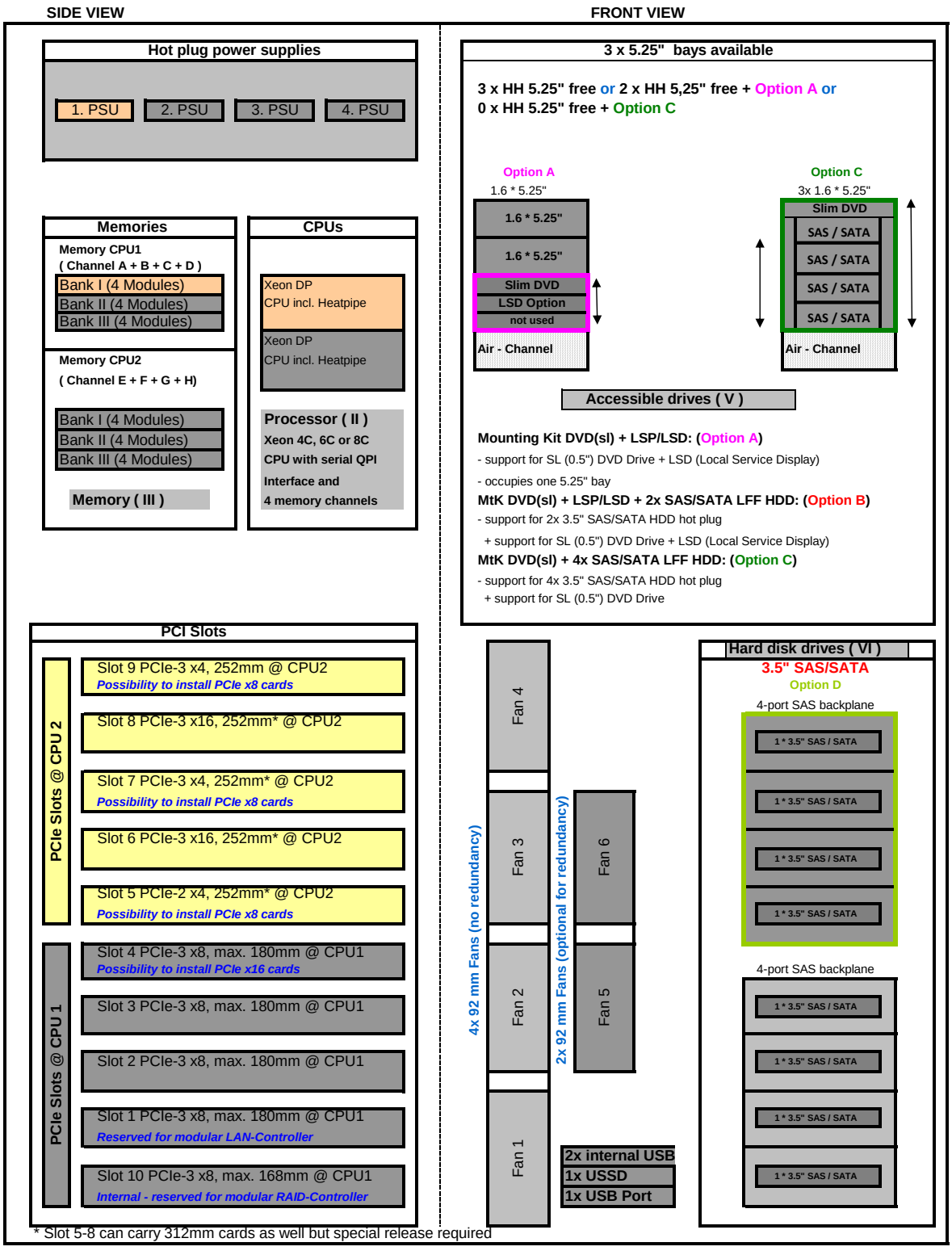
http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/SystemArchitect.
Subject to change and errors excepted.

Configuration diagram PRIMERGY

System unit (3.5" HDDs)



* Slot 5-8 can carry 312mm cards as well but special release required

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

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

Configuration diagram PRIMERGY

System unit (2.5" HDDs) **prepared for up to 8, 16 or 24x 2.5" Hard disk drives**

SIDE VIEW

Hot plug power supplies

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

Memories

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

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

Memory (III)

CPUs

Xeon DP
CPU incl. Heatpipe

Xeon DP
CPU incl. Heatpipe

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

PCI Slots

PCIe Slots @ CPU 2

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

Slot 8 PCIe-3 x16, 252mm* @ CPU2

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

Slot 6 PCIe-3 x16, 252mm* @ CPU2

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

PCIe Slots @ CPU 1

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

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

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

Slot 1 PCIe-3 x8, max. 180mm @ CPU1
Reserved for modular LAN-Controller

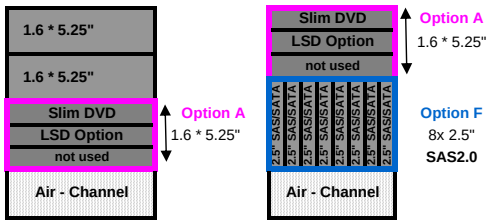
Slot 10 PCIe-3 x8, max. 168mm @ CPU1
Internal - reserved for modular RAID-Controller

* Slot 5-8 can carry 312mm cards as well but special release required

FRONT VIEW

3 x 5.25" bays available

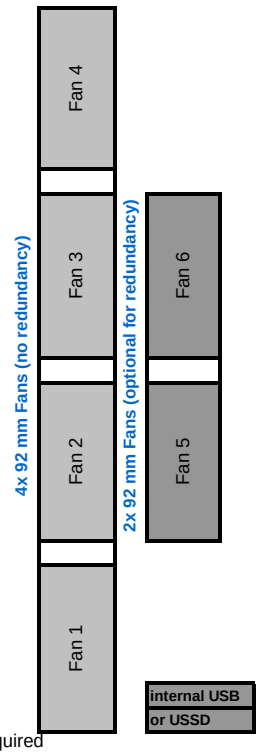
3 x HH 5.25" free or
2 x HH 5.25" free + Option A or
1 x HH 5.25" free + Option F or
0 x HH 5.25" free + Option A + Option F



Accessible drives (V)

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

optional SFF SAS/SATA HDD extension Box: (Option F)
- support for 8x 2.5" (SFF) SAS/SATA HDD hot plug SAS2.0 only
- occupies two 5.25" bays



HDDs or SSDs (VI)

8x **SAS2.0** backplane

1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe | 1 * 2.5" SAS / PCIe

2.5" SAS2.0/ or SAS3.0

8-port **SAS2.0** backplane
8-port **SAS3.0** backplane

SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0 | SAS2.0 or SAS3.0

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

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

Start PRIMERGY TX300 S8

Section I - base unit

SAS - System unit, Rack and Floorstand
lockable front bezel for floorstand version
All Base units are equipped with
- 4 Hot-Plug Power Supply Slots
- 4 Standard Fans (92mm; redundancy requires 2 additional Fans)
- SAS/ SATA backplane with hot plug bays only for 4x 3.5" HDDs (only LFF base units)
- SFF base units do not contain backplanes (they need to be configured separately)

Integrated ServerView Diagnostics Technology with an modul for indication of failed components via LEDs. The LEDs can be displayed during service even without mains connection.
Simultaneously components which can be replaced by the customer are marked

Options:
* up to 4 hot plug power supply modules with either 450W or 800W (no mix allowed)
* Upgrade options for up to 12x 3.5" or 24x 2.5" HDDs
* Optional modular RAID 0/1 controllers with IME (Integrated Mirroring Enhanced) support based on LSI 1064 or LSI SAS2008 chipset (ist das auf dem Board?) or optional modular RAID 5 controller based on LSI SAS2108 chipset.
* up to 3 drive bays 5,25" for accessible drives (ODD, backup drives,..)
* One LC- display for LocalView can be configured with an optional frame (occupies a slim bay)

Cables
* SATA cable for DVD
* 2x SAS cables for connection of 4 SAS-ports each incl. signaling

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

Systemboard D2649-B based on Chipset Intel® C600 Series(codenamed Patsburg)
> 2 serial QPIlinks (Quick Path Interconnect)
> Up to two Xeon EP2600 v2 series CPUs (Socket-R)

10 PCIe slots in total (with 2 CPU)
> 5 PCI slots @ first CPU:
4x PCIe-3 x8 (1x notched for x16 cards)
1x PCIe-3 x8 (for modular RAID only)
> 5 PCI slots @ second CPU:
2x PCIe-3 x16
2x PCIe-3 x4
2x PCIe-2 x4

System RAM (DDR3-1066, 1333, 1600 & 1866 MHz)
2x12 memory slots for max. 1.536GB RAM DDR3 available
12 DIMMs per CPU (4 channels with 3 slots per channel)
Possible max. configurations are:
24x 64GB LRDIMM (eight rank modules) = 1536GB
24x 16GB RDIMM (dual rank modules) = 384GB
16x 4GB UDIMM (dual rank modules) = 64GB (on special release only)
First Memory (one module) has to be selected for an orderable basic unit per CPU
Memory upgrade is possible module wise
Memory mirrroring is supported with 2 identical modules in channel A+B CPU 1 or D+E CPU 2
Rank sparing mode is supported with min. 2x 1R/2R or 1x 4R modules for RDIMM or LRDIMM
SDDC (Chipkill) is supported for RDIMMs (except x8 organisation) and LRDIMMs.

LAN onboard
Dual Port 10/100/1000 x4 PCI Express Gigabit Ethernet Intel LAN controller Powerville on-board

System Management
iRMC S4 (integrated Remote Management Controller) on-board with dedicated 10/100/1000 Service LAN-port and integrated graphics controller.
The Service LAN-port can be switched alternatively on standard Gbit LAN port 1

Graphics controller
Graphics Controller integrated in iRMC S4 (integrated Remote Management Controller):
Supported graphical resolutions are:
1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz.
1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off

Connectivity

Interfaces at rear	Interfaces at front
- 1x RS-232-C (serial, 9 pin) for iRMC S4 or OS or shared - 1x RS-232-C (serial, 9 pin) - 1x VGA (15 pins) - 4x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup - 2x LAN RJ45, 1x Service-LAN RJ45	- 2x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup - 1x Service-LAN RJ45 as an option Interfaces internal: - 2x internal USB connectors for backup devices - 1x USB 2.0 (UHCI) with 480MBit/s for dongle usage (no USB wakeup) - 1x USSD

TX300 S8 Floorstand System
with four hot plug fans (no redundancy)
without CPU, Memory and PSU with:

LFF Base Unit **S26361-K1456-V101**
- 4-port SAS 2.0 backplane for 4x 3.5" hot plug SAS or SATA HDs incl. cables for connection to the modular 8-port SAS controllers

SFF Base Unit **S26361-K1456-V201**
This base unit comes w/o backplane, please choose the appropriate one in the following steps.

RX350 S8 Rack System
without CPU, Memory and PSU
with four hot plug fans (no redundancy)

LFF Base Unit **S26361-K1456-V301**
- 4-port SAS 2.0 backplane for 4x 3.5" hot plug SAS or SATA HDs incl. cables for connection to the modular 8-port SAS controllers

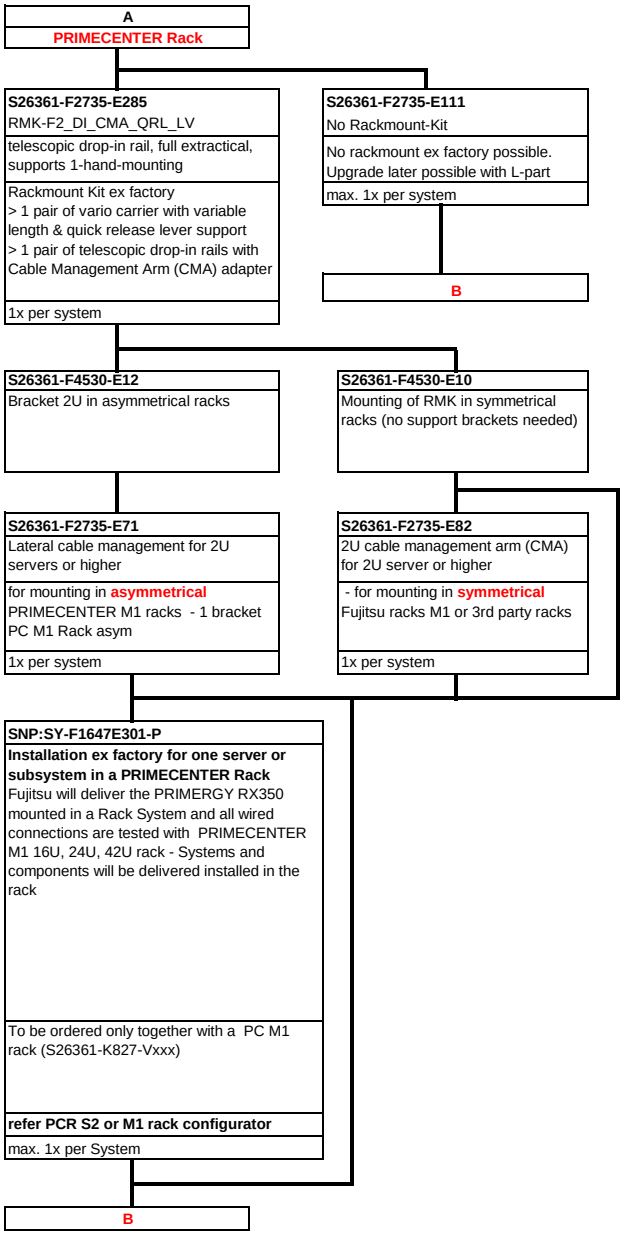
SFF Base Unit **S26361-K1456-V401**
This base unit comes w/o backplane, please choose the appropriate one in the following steps.

SX350 S8 Rack System
without CPU, Memory and PSU
with four hot plug fans (no redundancy)

LFF Base Unit **S26361-K1456-V903**
- 4-port SAS 2.0 backplane for 4x 3.5" hot plug SAS or SATA HDs incl. cables for connection to the modular 8-port SAS controllers

SFF Base Unit **S26361-K1456-V904**
!without backplane! (please configure one of the "G" options)

B
A



S26361-F2735-L285
RMK-F2_DI_CMA_QRL_LV
Rackmount Kit for later upgrade:
> 1 pair of vario carrier with variable length & quick release lever support
> 1 pair of telescopic drop-in rails with CMA adapter

S26361-F2735-L31
Adapter angle PC/DC-Rack, till 200Kg
necessary for mounting RMKs in asymmetrical racks

S26361-F2735-L7
Lateral cable management can only be mounted in asymmetrical PRIMECENTER S2 or new M1 racks. Requires 1U space above RMK

Cable Management Arm (CMA) can only be used for FTS RMKs with CMA adapter

S26361-F2735-L82
Cable management arm for 2U Server or higher for loose delivery can only be mounted at RMK with CMA adapter
for later upgrade

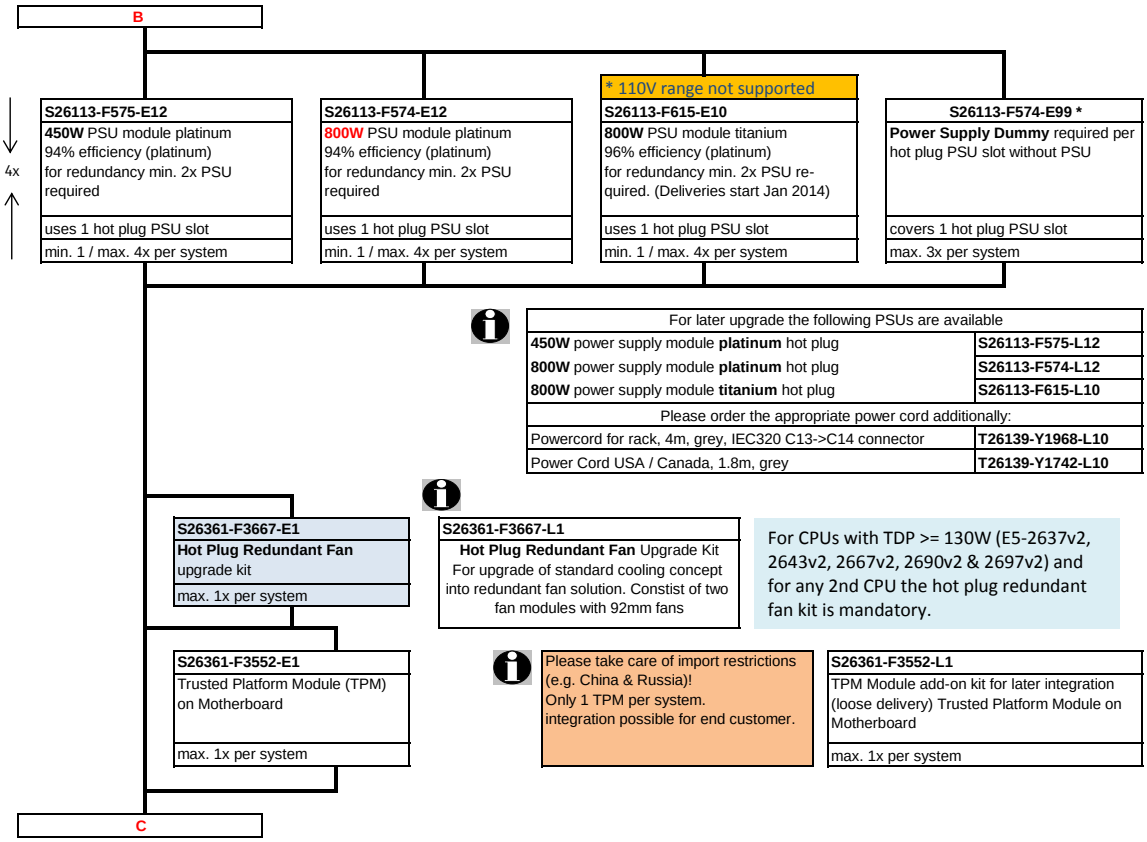
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the racks.
In case of the 46 U PCR S2 this service has to be ordered, to get the mounting kits and the cables installed

PRIMERGY Classic 19" rack is not supported

For later conversion of a Tower Server (PRIMERGY TX300 S8) into a rack Server please order

S26361-F1729-L260
Contains all necessary parts to convert PRIMERGY TX300 Tower Server into a PRIMERGY RX350 Rack server.

!! Mounting kit has to be ordered seperatly.


B
4x
S26113-F575-E12
450W PSU module platinum
94% efficiency (platinum)
for redundancy min. 2x PSU required
uses 1 hot plug PSU slot
min. 1 / max. 4x per system
S26113-F574-E12
800W PSU module platinum
94% efficiency (platinum)
for redundancy min. 2x PSU required
uses 1 hot plug PSU slot
min. 1 / max. 4x per system
* 110V range not supported
S26113-F615-E10
800W PSU module titanium
96% efficiency (platinum)
for redundancy min. 2x PSU re-quired. (Deliveries start Jan 2014)
uses 1 hot plug PSU slot
min. 1 / max. 4x per system
S26113-F574-E99 *
Power Supply Dummy required per hot plug PSU slot without PSU
covers 1 hot plug PSU slot
max. 3x per system
For later upgrade the following PSUs are available
450W power supply module platinum hot plug
S26113-F575-L12
800W power supply module platinum hot plug
S26113-F574-L12
800W power supply module titanium hot plug
S26113-F615-L10
Please order the appropriate power cord additionally:
Powercord for rack, 4m, grey, IEC320 C13->C14 connector
T26139-Y1968-L10
Power Cord USA / Canada, 1.8m, grey
T26139-Y1742-L10
S26361-F3667-E1
Hot Plug Redundant Fan upgrade kit
max. 1x per system
S26361-F3667-L1
Hot Plug Redundant Fan Upgrade Kit
For upgrade of standard cooling concept into redundant fan solution. Constist of two fan modules with 92mm fans
For CPUs with TDP >= 130W (E5-2637v2, 2643v2, 2667v2, 2690v2 & 2697v2) and for any 2nd CPU the hot plug redundant fan kit is mandatory.
S26361-F3552-E1
Trusted Platform Module (TPM) on Motherboard
max. 1x per system
Please take care of import restrictions (e.g. China & Russia)!
Only 1 TPM per system.
integration possible for end customer.
S26361-F3552-L1
TPM Module add-on kit for later integration (loose delivery) Trusted Platform Module on Motherboard
max. 1x per system
C

C

Section || Processor

PRIMERGY TX300/RX350 offers 2 processor sockets . Both PCIe-3 x16 slots are connected to CPU 2 and are useable with configured 2nd CPU only! Two processors with different clock frequencies are not possible. Please be aware, that a dual-processor system requires a multi-processor operating system.
.....
It is also possible to upgrade the TX300 with a second CPU later on. In this case don't forget to order a redundant fan kit as well.

Max. two CPUs can be selected per basic unit	
One of following CPUs has to be selected as first CPU for an orderable basic unit	
Optional second CPU has to be the same type like the first CPU	
Basic 4C CPUs - 1x 64-bit Intel Xeon (10MB Smart Cache) 1333 MHz DDR3 Bus; 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5-2603v2 4C/4T 1.80GHz 10MB 6.40GT/s 1333MHz 80W	**S26361-F3788-E180**
Xeon E5-2609v2 4C/4T 2.50GHz 10MB 6.40GT/s 1333MHz 80W	**S26361-F3788-E250**
Standard Turbo 6C/8C CPUs - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 7,20 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5-2620v2 6C/12T 2.10GHz 15MB 7.20GT/s 1600MHz 80W	**S26361-F3789-E210**
Xeon E5-2630v2 6C/12T 2.60GHz 15MB 7.20GT/s 1600MHz 80W	**S26361-F3789-E260**
Xeon E5-2640v2 8C/16T 2.00GHz 20MB 7.20GT/s 1600MHz 95W	**S26361-F3789-E200**
Advanced Turbo+ 8C/10C CPUs - 1x 64-bit Intel Xeon (20/25MB Smart Cache); Hyper-Threading (HT); 1866 MHz DDR3 Bus; 8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5-2650v2 8C/16T 2.60GHz 20MB 8.00GT/s 1866MHz 95W	**S26361-F3790-E260**
Xeon E5-2660v2 10C/20T 2.20GHz 25MB 8.00GT/s 1866MHz 95W	**S26361-F3790-E220**
Xeon E5-2670v2 10C/20T 2.50GHz 25MB 8.00GT/s 1866MHz 115W	**S26361-F3790-E250**
Xeon E5-2680v2 10C/20T 2.80GHz 25MB 8.00GT/s 1866MHz 115W	**S26361-F3790-E280**
Xeon E5-2690v2 10C/20T 3.00GHz 25MB 8.00GT/s 1866MHz 130W	**S26361-F3790-E300***
Segment Optimized CPUs - 1x 64-bit Intel Xeon (15/25/30MB Smart Cache); Hyper-Threading (HT); 1866 MHz DDR3 Bus; 8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5-2637v2 4C/8T 3.50GHz 15MB 8.00GT/s 1866MHz 130W	**S26361-F3791-E350***
Xeon E5-2643v2 6C/12T 3.50GHz 25MB 8.00GT/s 1866MHz 130W	**S26361-F3791-E330***
Xeon E5-2667v2 8C/16T 3.30GHz 25MB 8.00GT/s 1866MHz 130W	**S26361-F3791-E300***
Xeon E5-2695v2 12C/24T 2.40GHz 30MB 8.00GT/s 1866MHz 115W	**S26361-F3791-E240**
Xeon E5-2697v2 12C/24T 2.70GHz 30MB 8.00GT/s 1866MHz 130W	**S26361-F3791-E270***
Low Power 6C/10C CPUs - 1x 64-bit Intel Xeon (15/25MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 7,20/8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5-2630Lv2 6C/12T 2.40GHz 15MB 7.20GT/s 1600MHz 60W	**S26361-F3792-E240**
Xeon E5-2650Lv2 10C/20T 1.70GHz 25MB 8.00GT/s 1600MHz 70W	**S26361-F3792-E170**

Max. DDR3 Bus Speed depends on:
- max. DDR3 Bus Speed from the CPU and
- max. DDR3 Memory Speed and
- max. memory modules on one memory channel

For CPUs which do not offer 1866 MHz support, (Basic, Standard & Low Power class),
System Architect will not offer memory modules supporting this frequency.

*For CPUs with TDP = 130W (marked in blue and with * or for any 2nd CPU the hot plug redundant fan kit S26361-F3667-E1 is mandatory.

D

D

Section III -- Memory

- There are 12 memory slots per CPU for max.
768GB LRDIMM (12x 64GB 8R)
192GB RDIMM (12x 16GB 2R)
64GB UDIMM (8x 8GB) on special Release only
=> 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, LR DIMMs and unbuffered memory modules can be selected
No mix of registered, load reduced and unbuffered modules allowed.
Memory can be operated at 1.5V or 1.35V, even if the modules are of low voltage type.
Memory operating voltage can be set within BIOS (**1.5V is default** setting for max. speed).
In a single DIMM per channel configuration, following frequencies are supported:
- 1.5V - 1866MHz max (depending on CPU)
- 1.35V - 1600MHz max (depending on CPU, up to two LRDIMM per channel)
- 1.35V - 1333MHz max (up to two UDIMM or RDIMM per channel)

In a 3 DIMMs per channel configuration, memory will operate at 1.35V or 1.5V (no UDIMM allowed).
SDDC (Chipkill) is supported for registered / load redueced x4 organized memory modules only

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

2.) "Rank Sparing Mode" configuration
- Within a memory channel, one rank is a spare of the other ranks.

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

3.) "Performance Mode" configuration
- In this configuration, the memory module population ex factory is spread across all channels.

The BIOS is set to the max. performance for memory.
Minimum configuration is: 4x identical modules per CPU

4.) In the "Mirrored Channel Mode" is following configuration possible
- Each memory bank can optionally be equipped with 4x registered or load reduced or unbuffered DDR3 modules

In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.
In channel B / D is always the mirrored memory of channel A / B of CPU 1
In channel F / H is always the mirrored memory of channel E / G of CPU 2
Minimum configuration is: 4x identical modules per CPU
This mode is not supported by unbuffered memory modules

E

E

1x per CPU

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

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

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

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

Effective Memory capacity / Rank Sparing Mode, 1 Channel populated

	RDIMM				LRDIMM	
	4GB 1R	8GB 1R	8GB 2R	16GB 2R	32GB 4R	64GB 8R
1DPC	na	na	na	na	24GB	48GB
2DPC	4GB	8GB	12GB	28GB	56GB	112GB
3DPC	8GB	16GB	20GB	44GB	80GB	160GB

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

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

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

8GB (1x8GB) 2Rx8 L DDR3-1600 U ECC	S26361-F3807-E515

special release only

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.35V
1333MHz supported with up to 2DPC (8 modules/CPU) and 1.35V
1600MHz supported with up to 2DPC (8 modules/CPU) and 1.5V
Choose up to 12 order codes per CPU

4GB (1x4GB) 1Rx4 L DDR3-1600 R ECC	S26361-F3781-E514
8GB (1x8GB) 1Rx4 L DDR3-1600 R ECC	S26361-F3781-E515
16GB (1x16GB) 2Rx4 L DDR3-1600 R ECC	S26361-F3781-E516

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.5V
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU

16GB (1x16GB) 2Rx4 DDR3-1866 R ECC	S26361-F3793-E516

Registered Memory (RDIMM) no SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.5V
No mix with any other types of memory modules possible
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU

8GB (1x8GB) 2Rx8 DDR3-1866 R ECC	S26361-F3793-E515

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

32GB (1x32GB) 4Rx4 L DDR3-1600 LR ECC	S26361-F3782-E517
64GB (1x64GB) 8Rx4 L DDR3-1333 LR ECC	S26361-F3783-E518

Load Reduced Memory (LRDIMM) with SDDC (chipkill) support
- one DDR3 load reduced ECC mem. Module, 1.5V
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU

32GB (1x32GB) 4Rx4 DDR3-1866 LR ECC	S26361-F3848-E517

Note 1)
Max. DDR3 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

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

F

Memory Configuration PRIMERGY TX300 S8 / RX350 S8

Each CPU offers 12 **Slots** for DDR3 Memory Modules organised in **3 Banks and 4 Channels.**
If you need more than 12 Slots you have to configure the 2nd CPU.
Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 3 different kinds of DDR3 Memory Modules available: UDIMM / RDIMM and LRDIMM
UDIMM / RDIMM / LRDIMM offer different functionality. Mix of UDIMM / RDIMM / LRDIMM is not alloved.

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

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

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

Capacity	Configuration	UDIMM	RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU	1x4GB	1x4GB	1x32GB	with one CPU
Max. Memory per CPU	8/12 Modules / CPU	8x4GB	12x16GB	12x64GB	with one CPU
Max. Memory per System	16/24 Modules / System	64GB	384GB	1536GB	if second CPU is configured

Memory-Speed:
Max. DDR3 memory speed depends on the memory configuration on one memory channel and the speed of the CPU
The memory channel with the lowest speed defines the speed of all CPU channels in the system

Mem. Speed provided by CPU	Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS)																	
	UDIMM 1866MHz						RDIMM 1866MHz						LRDIMM 4R 1866MHz					
Voltage setting (BIOS)	1.5V [default]			1.35V			1.5V [default]			1.35V			1.5V [default]			1.35V		
	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC
CPU with 1866MHz DDR3 Bus	1866	1600	-	1333	1333	-	1866	1866	1066	1333	1333	800	1866	1866	1066	1600	1600	1066
CPU with 1600MHz DDR3 Bus	1600	1600	-	1333	1333	-	1600	1600	1066	1333	1333	800	1600	1600	1066	1600	1600	1066
CPU with 1333MHz DDR3 Bus	1333	1333	-	1333	1333	-	1333	1333	1066	1333	1333	800	1333	1333	1066	1333	1333	1066

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

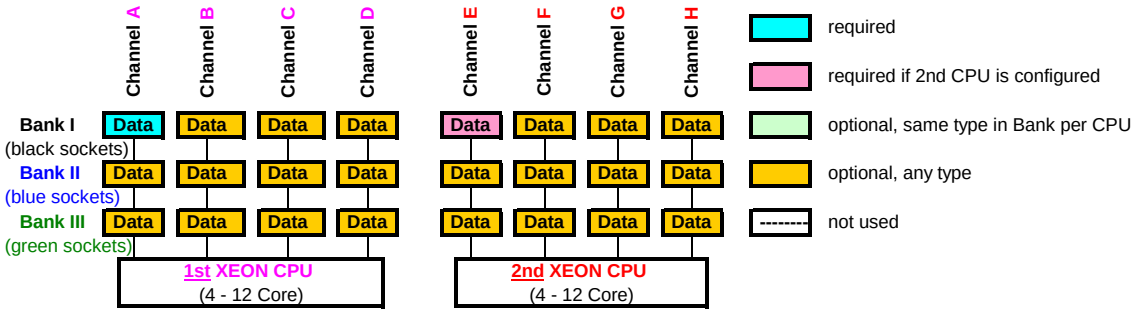
1DPC = 1 DIMM per Channel
2DPC = 2 DIMM per Channel
3DPC = 3 DIMM per Channel

Configuration hints:

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

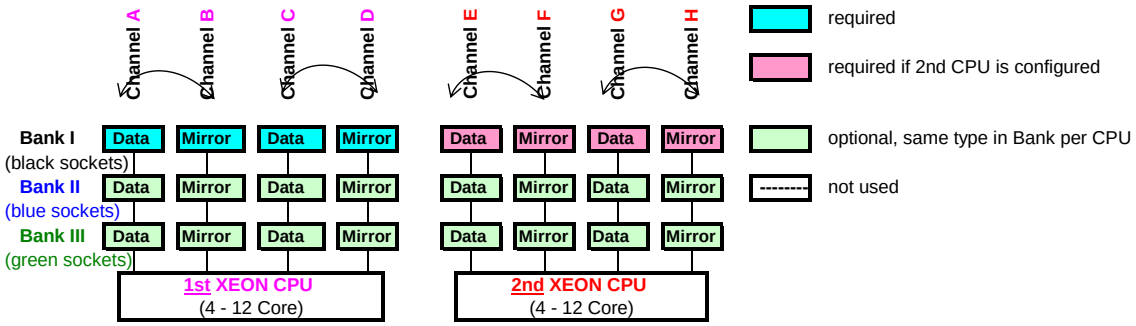
- A so called Bank consits of 1 memory module on every Channel available on one CPU (examples see below)
  Bank I on CPU 1/2 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU
  Bank II on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU
  Bank III on CPU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

1. Independent Channel Mode



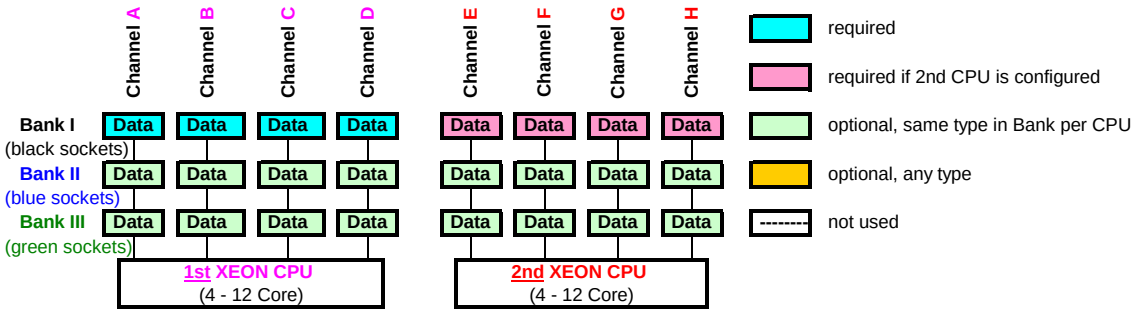
Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



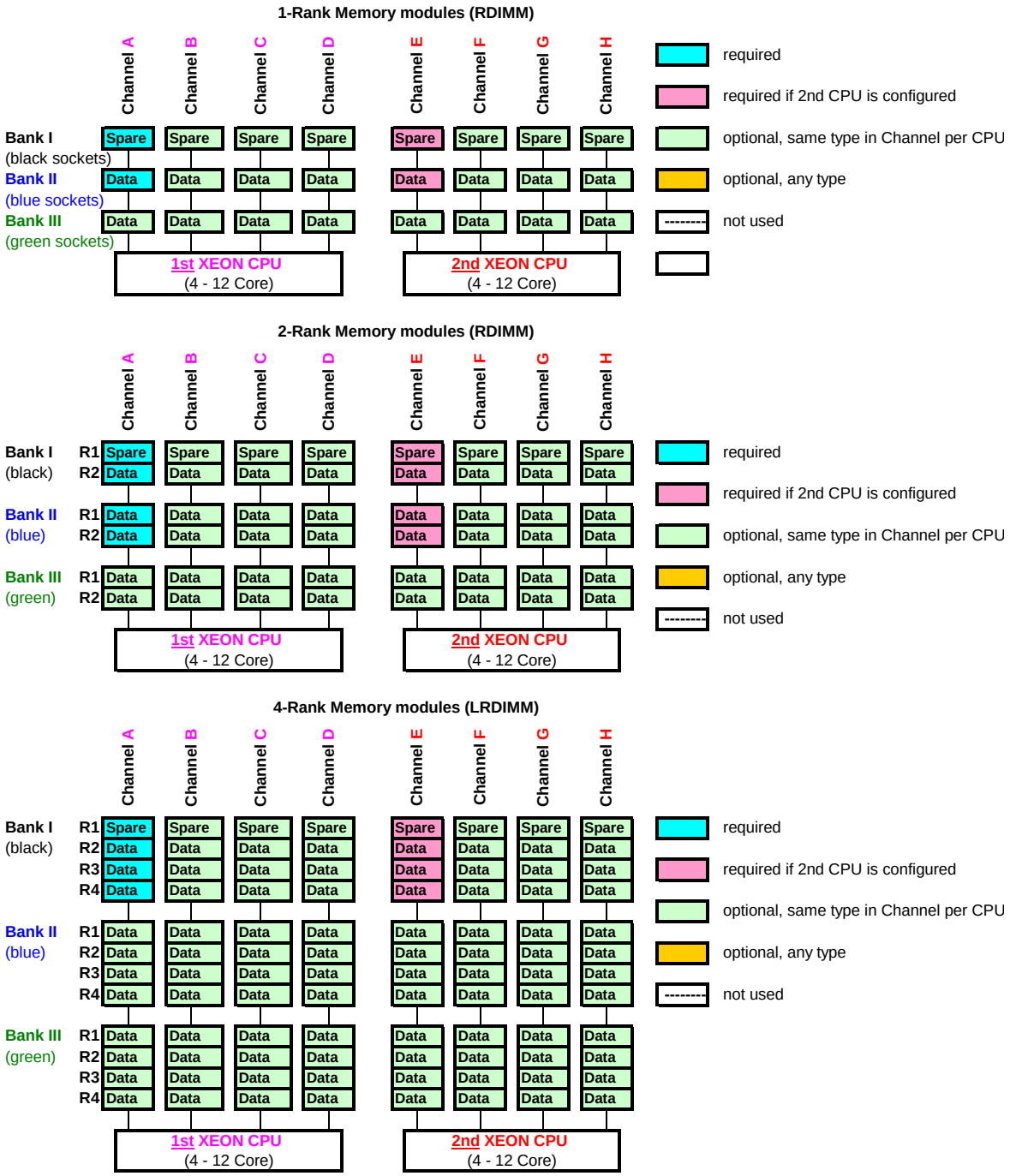
Mirrored Channel Mode requires identical modules on channel A,B, C, D (1st CPU) or channel E, F, G and H (2nd CPU)
50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
If this mode is used, a multiple of 4 identical modules has to be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

3. Performance Channel Mode



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

4. Rank Sparing Mode



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

F

Section IV -- Graphics & GPGPU & Co-Processors

Graphics Controller integrated in iRMC S4 (integrated Remote Management Controller) with following resolutions:
1920x1200x16bpp, 1920x1080x16bpp, 1600x1200x16bpp, 1680x1050x16bpp, 1440x900x16bpp, 1152x864x16bpp, 1280x1024x32bpp, 1024x768x32bpp, 800x600x32bpp, 640x480x32bpp

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

S26361-F2748-E537
PY VGA card 512MB PCI-e x1
NVIDIA NVS300 512 MB PCIe-x1
Connectors: 1x LFH 59
cable kit for 2x DVI or 2x VGA
supports dual head operation (2D & 3D); For Windows OS & native driver support for Linux. Full height bracket
max. 1x per system

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

S26361-F2748-L537
PY VGA card 512MB PCI-e x1
for later upgrade

NVIDIA Tesla GPGPU

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

! Configuration of x16 cards require a 2nd CPU

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

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

1x

S26361-F3736-E2
PY K20 / K20X Mounting Kit
2 power cables, a PCI card holder + Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 GPGPU cards
max. 1x per system required

S26361-F3736-L2
PY K20 / K20X Mounting Kit
consists of 2 power cables, a PCI card holder + Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 GP GPU cards
For later upgrade a service technician needed

2x

S26361-F2222-E22
PY NVIDIA Tesla K20 Computing-Processor
NVIDIA Tesla K20 GPGPU Card with 2496 graphic cores & 5GB V-RAM. PCIe Gen2
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system

S26361-F2222-E24
PY NVIDIA Tesla K20X Computing-Processor
NVIDIA Tesla K20X GPGPU Card with 2688 graphic cores & 6GB V-RAM. PCIe Gen2
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (**Gen3**) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system

S26361-F2222-L22
S26361-F2222-L24
for later upgrade

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

1x

S26361-F3736-E2
PY K20 / K20X Mounting Kit
2 power cables, a PCI card holder + Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 K20 / K20X / K40 cards
max. 1x per system required

S26361-F3736-L2
PY K20 / K20X Mounting Kit
for later upgrade
Service technician needed

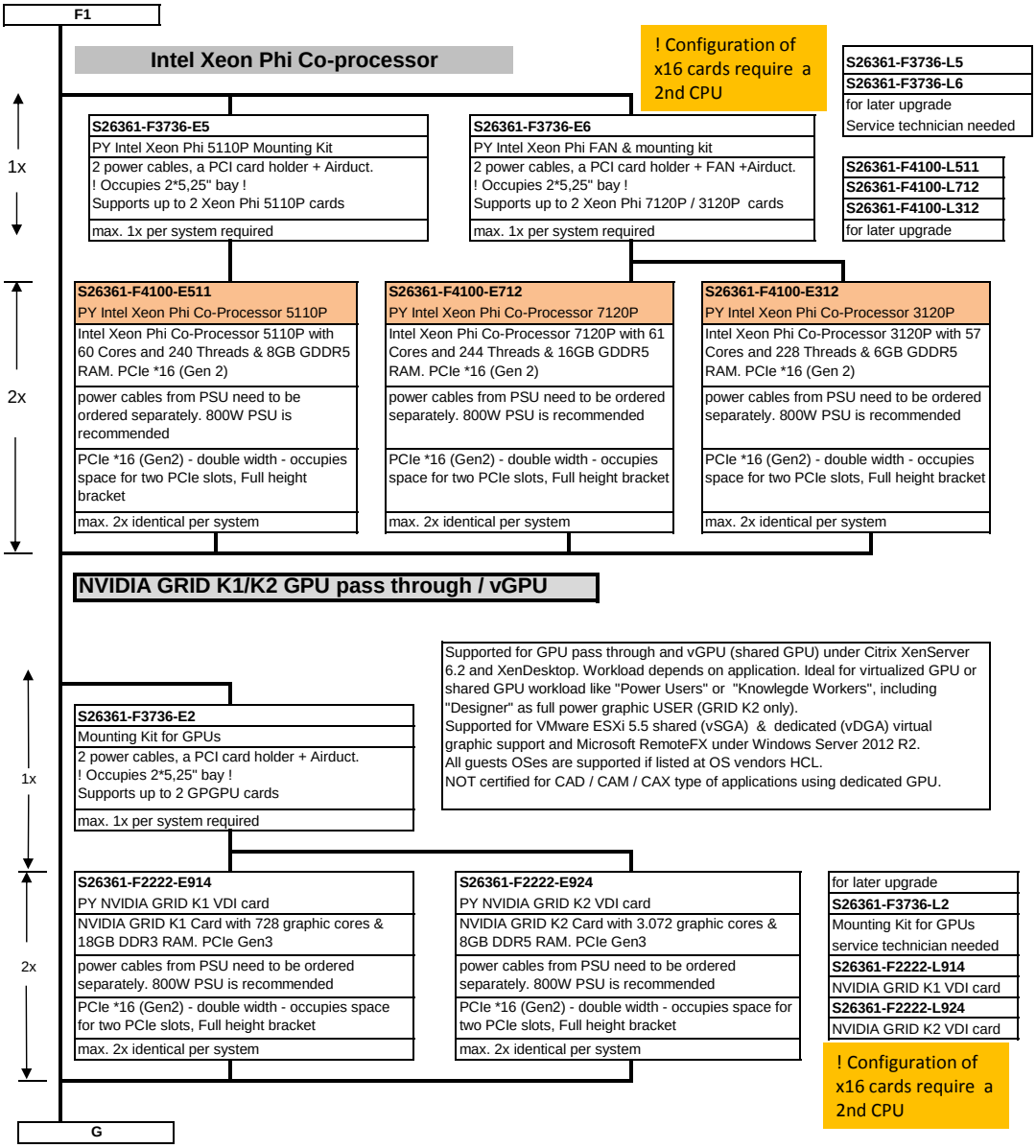
2x

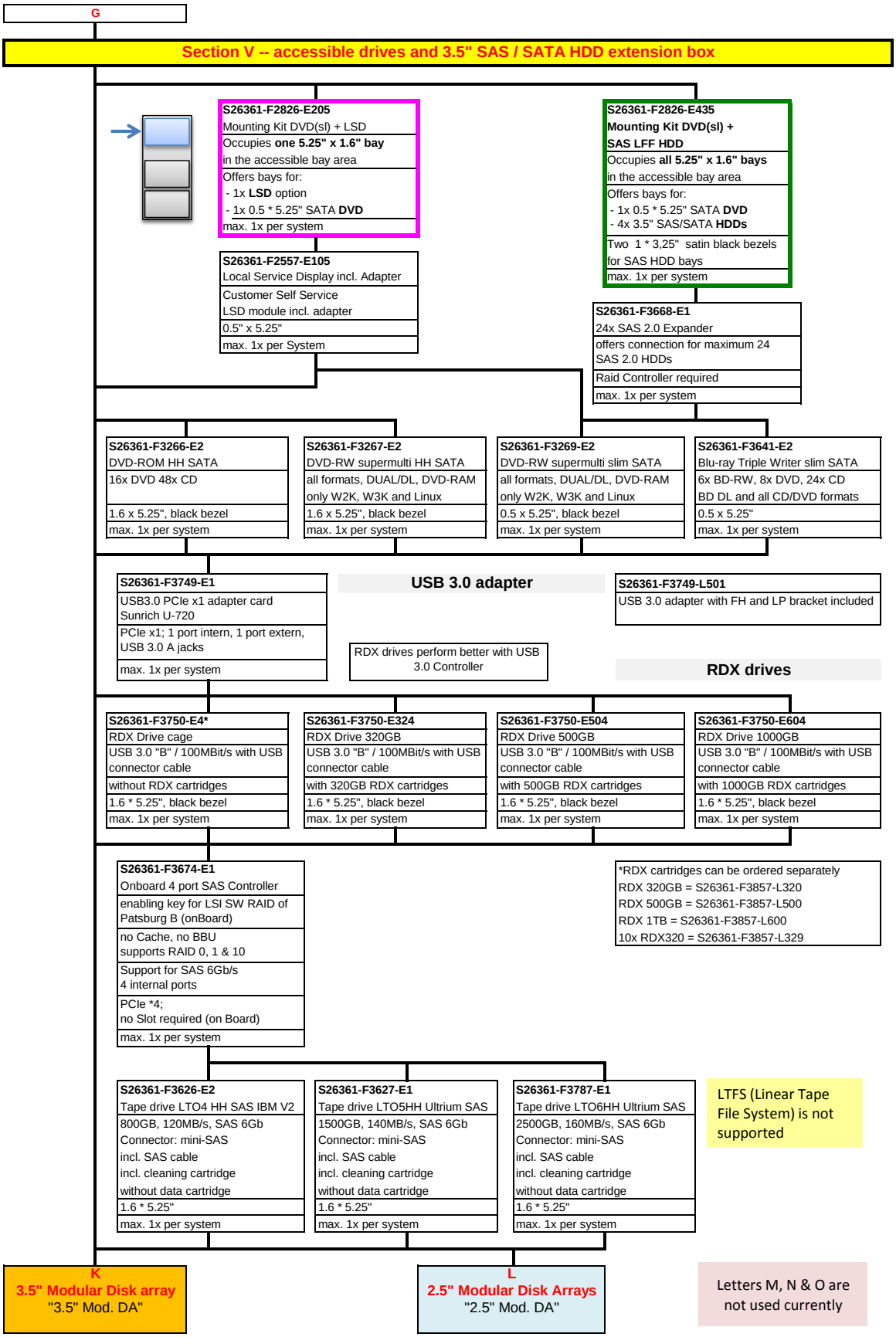
As soon as available

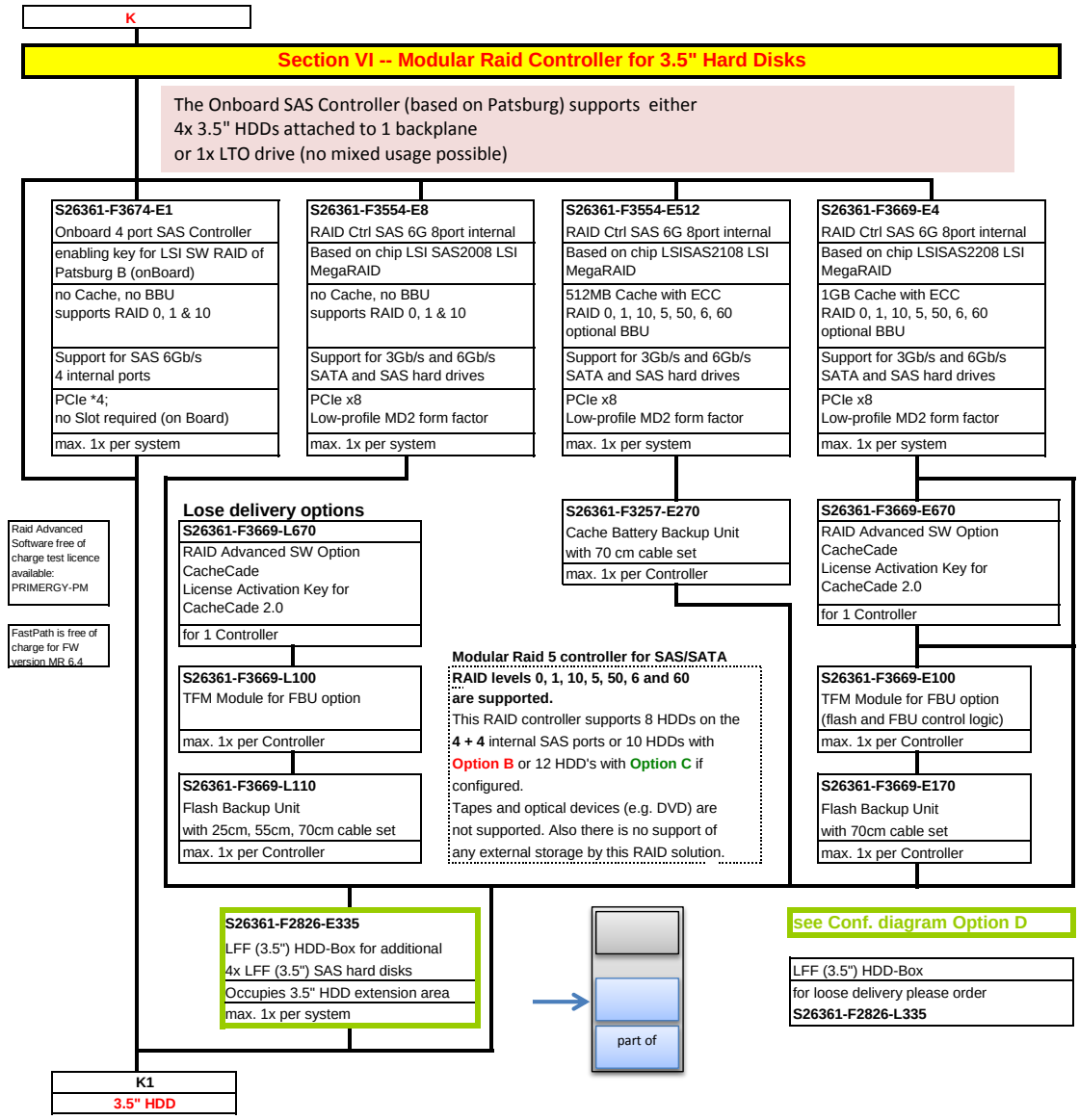
S26361-F2222-E40
PY NVIDIA Tesla K40 Computing-Processor
NVIDIA Tesla K40
12 GB Memory
PCIe Gen3-x16
2880 cores
for GPGPU purpose only
power cables from PSU needs to be ordered
800W PSU is recommended
occupied space for two PCI slots
full height bracket
max. 2x per system

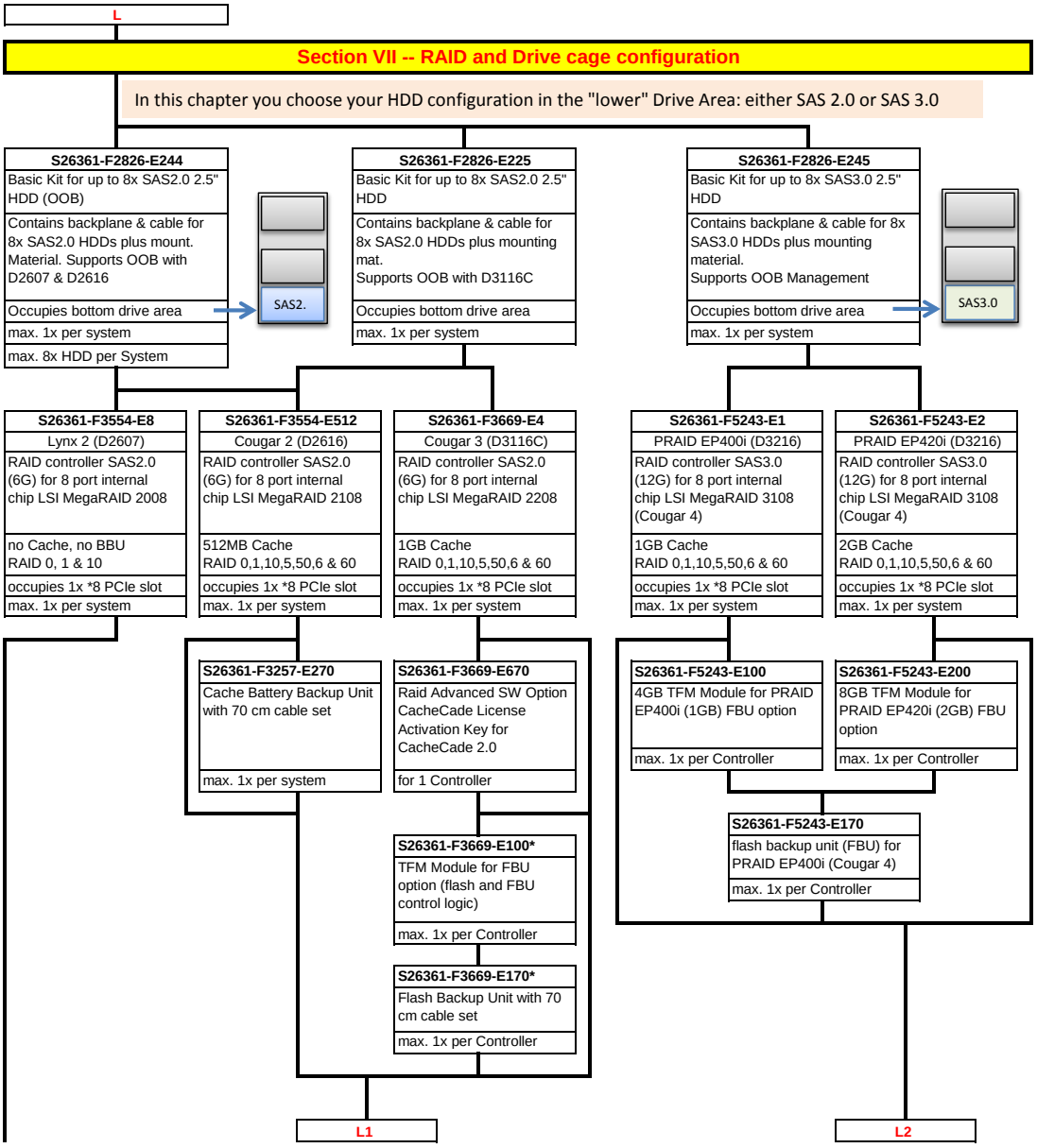
S26361-F2222-L40
for late upgrade

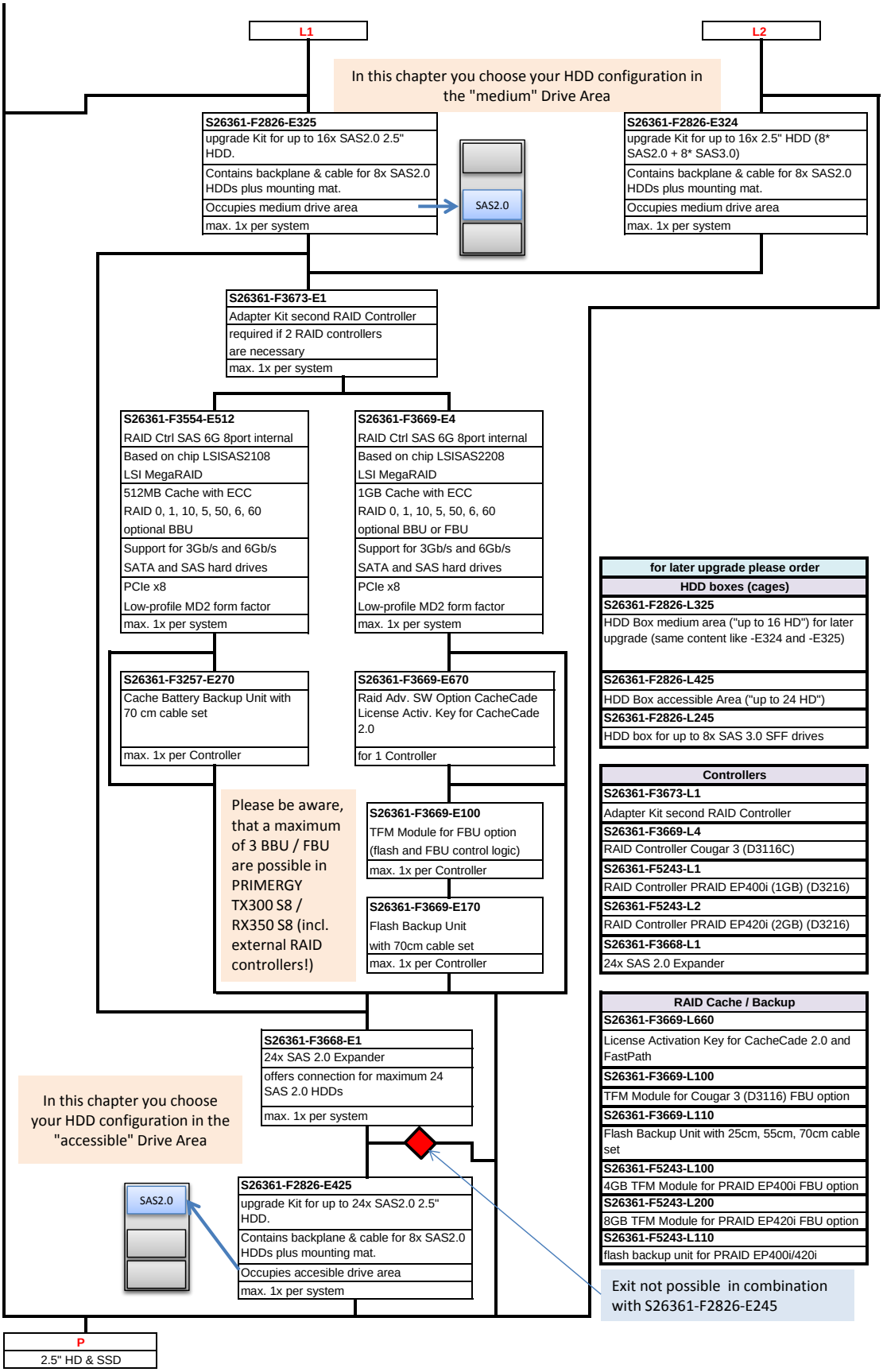
F1


F1
Intel Xeon Phi Co-processor
! Configuration of x16 cards require a 2nd CPU
S26361-F3736-L5
S26361-F3736-L6
for later upgrade
Service technician needed
1x
S26361-F3736-E5
PY Intel Xeon Phi 5110P Mounting Kit
2 power cables, a PCI card holder + Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 Xeon Phi 5110P cards
max. 1x per system required
S26361-F3736-E6
PY Intel Xeon Phi FAN & mounting kit
2 power cables, a PCI card holder + FAN +Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 Xeon Phi 7120P / 3120P cards
max. 1x per system required
S26361-F4100-L511
S26361-F4100-L712
S26361-F4100-L312
for later upgrade
2x
S26361-F4100-E511
PY Intel Xeon Phi Co-Processor 5110P
Intel Xeon Phi Co-Processor 5110P with 60 Cores and 240 Threads & 8GB GDDR5 RAM. PCIe *16 (Gen 2)
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system
S26361-F4100-E712
PY Intel Xeon Phi Co-Processor 7120P
Intel Xeon Phi Co-Processor 7120P with 61 Cores and 244 Threads & 16GB GDDR5 RAM. PCIe *16 (Gen 2)
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system
S26361-F4100-E312
PY Intel Xeon Phi Co-Processor 3120P
Intel Xeon Phi Co-Processor 3120P with 57 Cores and 228 Threads & 6GB GDDR5 RAM. PCIe *16 (Gen 2)
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system
NVIDIA GRID K1/K2 GPU pass through / vGPU
Supported for GPU pass through and vGPU (shared GPU) under Citrix XenServer 6.2 and XenDesktop. Workload depends on application. Ideal for virtualized GPU or shared GPU workload like "Power Users" or "Knowlegde Workers", including "Designer" as full power graphic USER (GRID K2 only).
Supported for VMware ESXi 5.5 shared (vSGA) & dedicated (vDGA) virtual graphic support and Microsoft RemoteFX under Windows Server 2012 R2.
All guests OSes are supported if listed at OS vendors HCL.
NOT certified for CAD / CAM / CAX type of applications using dedicated GPU.
1x
S26361-F3736-E2
Mounting Kit for GPUs
2 power cables, a PCI card holder + Airduct.
! Occupies 2*5,25" bay !
Supports up to 2 GPGPU cards
max. 1x per system required
2x
S26361-F2222-E914
PY NVIDIA GRID K1 VDI card
NVIDIA GRID K1 Card with 728 graphic cores & 18GB DDR3 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system
S26361-F2222-E924
PY NVIDIA GRID K2 VDI card
NVIDIA GRID K2 Card with 3.072 graphic cores & 8GB DDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen2) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x identical per system
for later upgrade
S26361-F3736-L2
Mounting Kit for GPUs service technician needed
S26361-F2222-L914
NVIDIA GRID K1 VDI card
S26361-F2222-L924
NVIDIA GRID K2 VDI card
! Configuration of x16 cards require a 2nd CPU
G


G
Section V -- accessible drives and 3.5" SAS / SATA HDD extension box
S26361-F2826-E205
Mounting Kit DVD(sl) + LSD
Occupies one 5.25" x 1.6" bay in the accessible bay area
Offers bays for:
- 1x LSD option
- 1x 0.5 * 5.25" SATA DVD
max. 1x per system
S26361-F2826-E435
Mounting Kit DVD(sl) + SAS LFF HDD
Occupies all 5.25" x 1.6" bays in the accessible bay area
Offers bays for:
- 1x 0.5 * 5.25" SATA DVD
- 4x 3.5" SAS/SATA HDDs
Two 1 * 3,25" satin black bezels for SAS HDD bays
max. 1x per system
S26361-F2557-E105
Local Service Display incl. Adapter
Customer Self Service LSD module incl. adapter
0.5" x 5.25"
max. 1x per System
S26361-F3668-E1
24x SAS 2.0 Expander
offers connection for maximum 24 SAS 2.0 HDDs
Raid Controller required
max. 1x per system
S26361-F3266-E2
DVD-ROM HH SATA
16x DVD 48x CD
1.6 x 5.25", black bezel
max. 1x per system
S26361-F3267-E2
DVD-RW supermulti HH SATA
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
1.6 x 5.25", black bezel
max. 1x per system
S26361-F3269-E2
DVD-RW supermulti slim SATA
all formats, DUAL/DL, DVD-RAM
only W2K, W3K and Linux
0.5 x 5.25", black bezel
max. 1x per system
S26361-F3641-E2
Blu-ray Triple Writer slim SATA
6x BD-RW, 8x DVD, 24x CD
BD DL and all CD/DVD formats
0.5 x 5.25"
max. 1x per system
S26361-F3749-E1
USB3.0 PCIe x1 adapter card Sunrich U-720
PCIe x1; 1 port intern, 1 port extern, USB 3.0 A jacks
max. 1x per system
USB 3.0 adapter
S26361-F3749-L501
USB 3.0 adapter with FH and LP bracket included
RDX drives perform better with USB 3.0 Controller
RDX drives
S26361-F3750-E4*
RDX Drive cage
USB 3.0 "B" / 100MBit/s with USB connector cable
without RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3750-E324
RDX Drive 320GB
USB 3.0 "B" / 100MBit/s with USB connector cable
with 320GB RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3750-E504
RDX Drive 500GB
USB 3.0 "B" / 100MBit/s with USB connector cable
with 500GB RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system
S26361-F3750-E604
RDX Drive 1000GB
USB 3.0 "B" / 100MBit/s with USB connector cable
with 1000GB RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system
*RDX cartridges can be ordered separately
RDX 320GB = S26361-F3857-L320
RDX 500GB = S26361-F3857-L500
RDX 1TB = S26361-F3857-L600
10x RDX320 = S26361-F3857-L329
S26361-F3674-E1
Onboard 4 port SAS Controller
enabling key for LSI SW RAID of Patsburg B (onBoard)
no Cache, no BBU
supports RAID 0, 1 & 10
Support for SAS 6Gb/s
4 internal ports
PCIe *4;
no Slot required (on Board)
max. 1x per system
S26361-F3626-E2
Tape drive LTO4 HH SAS IBM V2
800GB, 120MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25"
max. 1x per system
S26361-F3627-E1
Tape drive LTO5HH Ultrium SAS
1500GB, 140MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25"
max. 1x per system
S26361-F3787-E1
Tape drive LTO6HH Ultrium SAS
2500GB, 160MB/s, SAS 6Gb
Connector: mini-SAS
incl. SAS cable
incl. cleaning cartridge
without data cartridge
1.6 * 5.25"
max. 1x per system
LTFS (Linear Tape File System) is not supported
K
3.5" Modular Disk array
"3.5" Mod. DA"
L
2.5" Modular Disk Arrays
"2.5" Mod. DA"
Letters M, N & O are not used currently


K
Section VI -- Modular Raid Controller for 3.5" Hard Disks
The Onboard SAS Controller (based on Patsburg) supports either
4x 3.5" HDDs attached to 1 backplane
or 1x LTO drive (no mixed usage possible)
S26361-F3674-E1
Onboard 4 port SAS Controller
enabling key for LSI SW RAID of Patsburg B (onBoard)
no Cache, no BBU
supports RAID 0, 1 & 10
Support for SAS 6Gb/s
4 internal ports
PCIe *4;
no Slot required (on Board)
max. 1x per system
S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSI SAS2008 LSI MegaRAID
no Cache, no BBU
supports RAID 0, 1 & 10
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108 LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3669-E4
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208 LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
Raid Advanced Software free of charge test licence available: PRIMERGY-PM
FastPath is free of charge for FW version MR 6.4
Lose delivery options
S26361-F3669-L670
RAID Advanced SW Option CacheCade
License Activation Key for CacheCade 2.0
for 1 Controller
S26361-F3669-L100
TFM Module for FBU option
max. 1x per Controller
S26361-F3669-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set
max. 1x per Controller
S26361-F3257-E270
Cache Battery Backup Unit
with 70 cm cable set
max. 1x per Controller
S26361-F3669-E670
RAID Advanced SW Option CacheCade
License Activation Key for CacheCade 2.0
for 1 Controller
S26361-F3669-E100
TFM Module for FBU option
(flash and FBU control logic)
max. 1x per Controller
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller
Modular Raid 5 controller for SAS/SATA
RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported.
This RAID controller supports 8 HDDs on the 4 + 4 internal SAS ports or 10 HDDs with Option B or 12 HDD's with Option C if configured.
Tapes and optical devices (e.g. DVD) are not supported. Also there is no support of any external storage by this RAID solution.
S26361-F2826-E335
LFF (3.5") HDD-Box for additional 4x LFF (3.5") SAS hard disks
Occupies 3.5" HDD extension area
max. 1x per system
part of
see Conf. diagram Option D
LFF (3.5") HDD-Box
for loose delivery please order
S26361-F2826-L335
K1
3.5" HDD


L
Section VII -- RAID and Drive cage configuration
In this chapter you choose your HDD configuration in the "lower" Drive Area: either SAS 2.0 or SAS 3.0
S26361-F2826-E244
Basic Kit for up to 8x SAS2.0 2.5" HDD (OOB)
Contains backplane & cable for 8x SAS2.0 HDDs plus mount. Material. Supports OOB with D2607 & D2616
Occupies bottom drive area
max. 1x per system
max. 8x HDD per System
SAS2.
S26361-F2826-E225
Basic Kit for up to 8x SAS2.0 2.5" HDD
Contains backplane & cable for 8x SAS2.0 HDDs plus mounting mat.
Supports OOB with D3116C
Occupies bottom drive area
max. 1x per system
S26361-F2826-E245
Basic Kit for up to 8x SAS3.0 2.5" HDD
Contains backplane & cable for 8x SAS3.0 HDDs plus mounting material.
Supports OOB Management
Occupies bottom drive area
max. 1x per system
SAS3.0
S26361-F3554-E8
Lynx 2 (D2607)
RAID controller SAS2.0 (6G) for 8 port internal chip LSI MegaRAID 2008
no Cache, no BBU
RAID 0, 1 & 10
occupies 1x *8 PCIe slot
max. 1x per system
S26361-F3554-E512
Cougar 2 (D2616)
RAID controller SAS2.0 (6G) for 8 port internal chip LSI MegaRAID 2108
512MB Cache
RAID 0,1,10,5,50,6 & 60
occupies 1x *8 PCIe slot
max. 1x per system
S26361-F3669-E4
Cougar 3 (D3116C)
RAID controller SAS2.0 (6G) for 8 port internal chip LSI MegaRAID 2208
1GB Cache
RAID 0,1,10,5,50,6 & 60
occupies 1x *8 PCIe slot
max. 1x per system
S26361-F5243-E1
PRAID EP400i (D3216)
RAID controller SAS3.0 (12G) for 8 port internal chip LSI MegaRAID 3108 (Cougar 4)
1GB Cache
RAID 0,1,10,5,50,6 & 60
occupies 1x *8 PCIe slot
max. 1x per system
S26361-F5243-E2
PRAID EP420i (D3216)
RAID controller SAS3.0 (12G) for 8 port internal chip LSI MegaRAID 3108 (Cougar 4)
2GB Cache
RAID 0,1,10,5,50,6 & 60
occupies 1x *8 PCIe slot
max. 1x per system
S26361-F3257-E270
Cache Battery Backup Unit with 70 cm cable set
max. 1x per system
S26361-F3669-E670
Raid Advanced SW Option CacheCade License Activation Key for CacheCade 2.0
for 1 Controller
S26361-F3669-E100*
TFM Module for FBU option (flash and FBU control logic)
max. 1x per Controller
S26361-F3669-E170*
Flash Backup Unit with 70 cm cable set
max. 1x per Controller
S26361-F5243-E100
4GB TFM Module for PRAID EP400i (1GB) FBU option
max. 1x per Controller
S26361-F5243-E200
8GB TFM Module for PRAID EP420i (2GB) FBU option
max. 1x per Controller
S26361-F5243-E170
flash backup unit (FBU) for PRAID EP400i (Cougar 4)
max. 1x per Controller
L1
L2


L1
L2
In this chapter you choose your HDD configuration in the "medium" Drive Area
S26361-F2826-E325
upgrade Kit for up to 16x SAS2.0 2.5" HDD.
Contains backplane & cable for 8x SAS2.0 HDDs plus mounting mat.
Occupies medium drive area
max. 1x per system
SAS2.0
S26361-F2826-E324
upgrade Kit for up to 16x 2.5" HDD (8* SAS2.0 + 8* SAS3.0)
Contains backplane & cable for 8x SAS2.0 HDDs plus mounting mat.
Occupies medium drive area
max. 1x per system
S26361-F3673-E1
Adapter Kit second RAID Controller
required if 2 RAID controllers are necessary
max. 1x per system
S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108 LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3669-E4
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208 LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU or FBU
Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system
S26361-F3257-E270
Cache Battery Backup Unit with 70 cm cable set
max. 1x per Controller
S26361-F3669-E670
Raid Adv. SW Option CacheCade License Activ. Key for CacheCade 2.0
for 1 Controller
Please be aware, that a maximum of 3 BBU / FBU are possible in PRIMERGY TX300 S8 / RX350 S8 (incl. external RAID controllers!)
S26361-F3669-E100
TFM Module for FBU option (flash and FBU control logic)
max. 1x per Controller
S26361-F3669-E170
Flash Backup Unit with 70cm cable set
max. 1x per Controller
for later upgrade please order
HDD boxes (cages)
S26361-F2826-L325
HDD Box medium area ("up to 16 HD") for later upgrade (same content like -E324 and -E325)
S26361-F2826-L425
HDD Box accessible Area ("up to 24 HD")
S26361-F2826-L245
HDD box for up to 8x SAS 3.0 SFF drives
Controllers
S26361-F3673-L1
Adapter Kit second RAID Controller
S26361-F3669-L4
RAID Controller Cougar 3 (D3116C)
S26361-F5243-L1
RAID Controller PRAID EP400i (1GB) (D3216)
S26361-F5243-L2
RAID Controller PRAID EP420i (2GB) (D3216)
S26361-F3668-L1
24x SAS 2.0 Expander
RAID Cache / Backup
S26361-F3669-L660
License Activation Key for CacheCade 2.0 and FastPath
S26361-F3669-L100
TFM Module for Cougar 3 (D3116) FBU option
S26361-F3669-L110
Flash Backup Unit with 25cm, 55cm, 70cm cable set
S26361-F5243-L100
4GB TFM Module for PRAID EP400i FBU option
S26361-F5243-L200
8GB TFM Module for PRAID EP420i FBU option
S26361-F5243-L110
flash backup unit for PRAID EP400i/420i
S26361-F3668-E1
24x SAS 2.0 Expander
offers connection for maximum 24 SAS 2.0 HDDs
max. 1x per system
In this chapter you choose your HDD configuration in the "accessible" Drive Area
SAS2.0
S26361-F2826-E425
upgrade Kit for up to 24x SAS2.0 2.5" HDD.
Contains backplane & cable for 8x SAS2.0 HDDs plus mounting mat.
Occupies accesible drive area
max. 1x per system
Exit not possible in combination with S26361-F2826-E245
P
2.5" HD & SSD

K1

Section VIII -- 3.5" SAS / SATA Hard disk drives

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

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

Up to 12x 3.5" SAS or SATA hard disks can be configured.
Mixed configurations with Eco SATA drives and SAS drives are not allowed
3.5" SAS drives and 3.5" BC SATA drives can be mixed, but not used in one logical RAID volume
***) SSD Mainstraem Endurance= 10DWPD over 5y**

4*, 8*, 10* or 12*

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

S26361-F5520-E530	S26361-F5520-E545	S26361-F5520-E560
HD 300GB 15krpm 2.5"	HD 450GB 15krpm 2.5"	HD 600GB 15krpm 2.5"
15.000rpm,<3ms, 64MB Cache	15.000rpm,<3ms, 64MB Cache	15.000rpm,<3ms, 64MB Cache
SAS 6Gb/s	**SAS 6Gb/s**	**SAS 6Gb/s**
3.5" hot plug/hot replace tray	3.5" hot plug/hot replace tray	3.5" hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

S26361-F5241-E100	S26361-F5241-E200	S26361-F5241-E300	S26361-F5241-E400
HD 1TB 7.2krpm 3.5"	HD 2TB 7.2krpm 3.5"	HD 3TB 7.2krpm 3.5"	HD 4TB 7.2krpm 3.5"
7200rpm,<9.0 ms, 32MB Cache	7200rpm,<9.0 ms, 32MB Cache	7200rpm,<9.0 ms, 32MB Cache	7200rpm,<9.0 ms, 32MB Cache
BC SAS 6Gb/s	**BC SAS 6Gb/s**	**BC SAS 6Gb/s**	**BC SAS 6Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system	max. 12x per system

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

S26361-F3670-E300	S26361-F3670-E400	S26361-F3903-E600
HD 3TB 7.2krpm 3.5"	HD 4TB 7.2krpm 3.5"	HD 4TB 7.2krpm 3.5"
7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 64MB Cache	7200rpm,<9.0 ms, 128MB Cache
BC SATA 6Gb/s	**BC SATA 6Gb/s**	**BC SATA 6Gb/s**
hot plug/hot replace tray	hot plug/hot replace tray	hot plug/hot replace tray
max. 12x per system	max. 12x per system	max. 12x per system

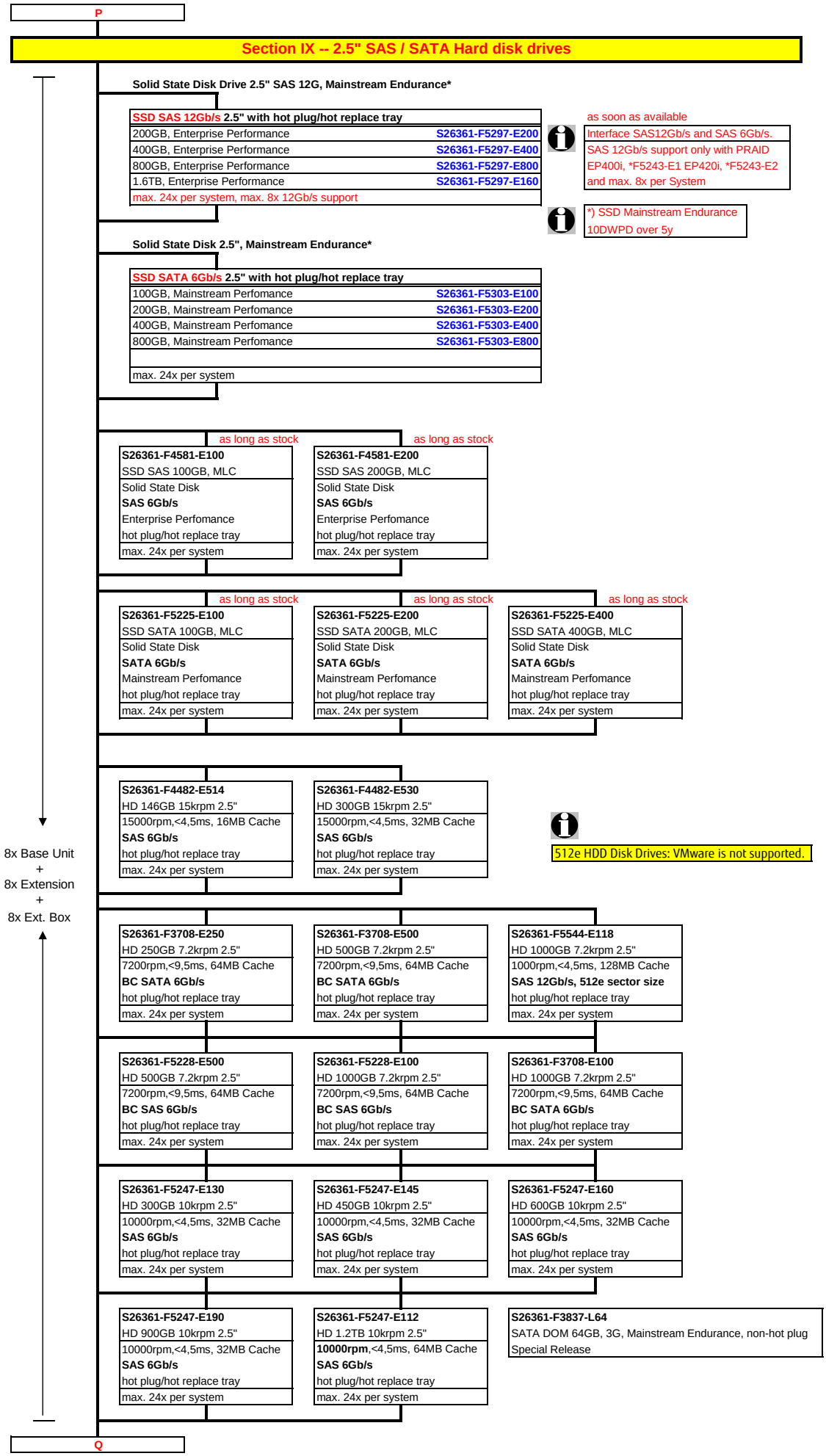
as soon as available

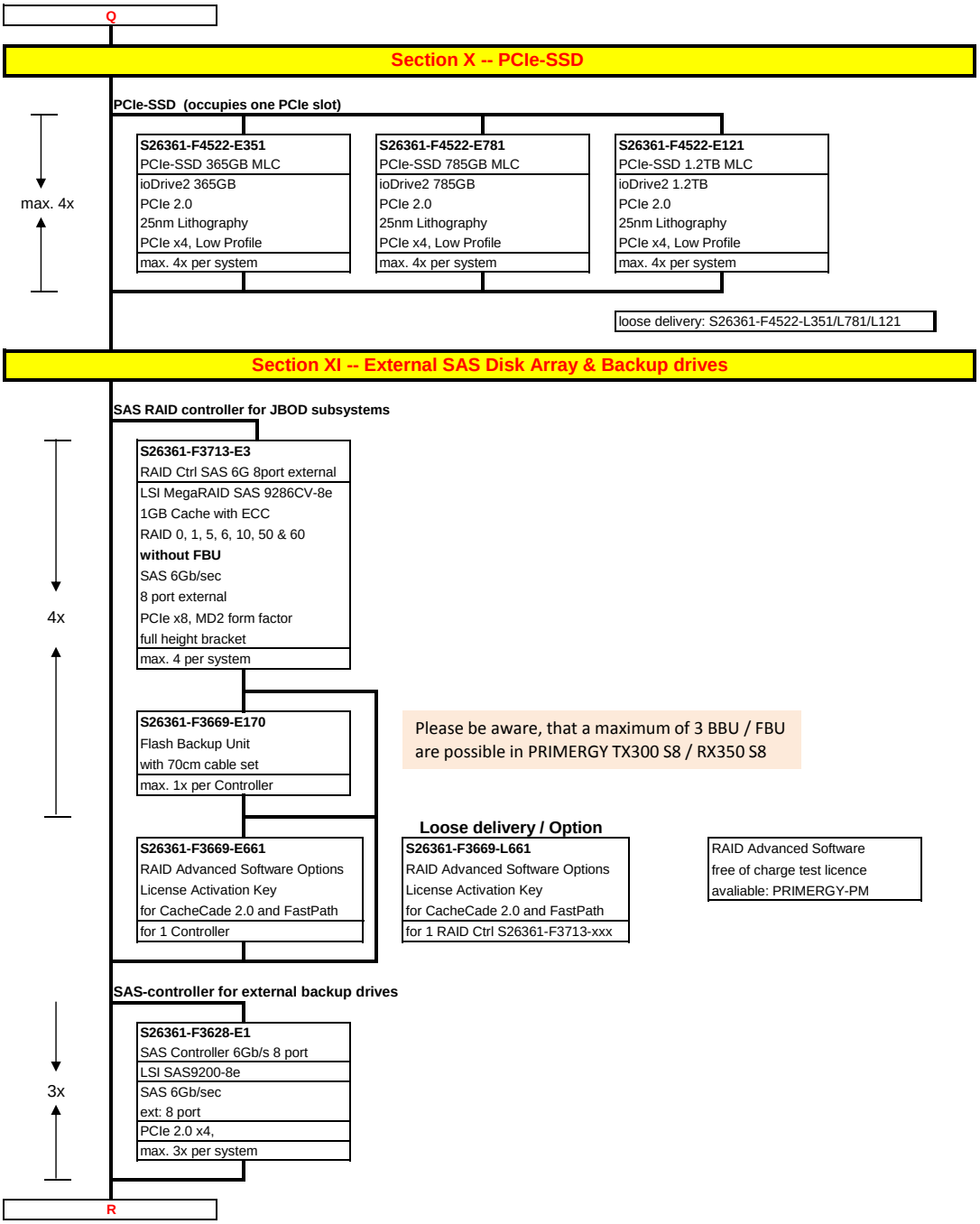
Solid State Disk 3.5", Mainstream Endurance* (10DWPD over 5y)

SSD SATA 6Gb/s 2.5" within 3.5" hot plug/hot replace tray	
100GB, Mainstream Perfomance	**S26361-F5319-E100**
200GB, Mainstream Perfomance	**S26361-F5319-E200**
400GB, Mainstream Perfomance	**S26361-F5319-E400**
800GB, Mainstream Perfomance	**S26361-F5319-E800**
SSD SAS 12Gb/s 2.5" within 3.5" hot plug/hot replace tray	
200GB, Enterprise Performance	**S26361-F5315-E200**
400GB, Enterprise Performance	**S26361-F5315-E400**
800GB, Enterprise Performance	**S26361-F5315-E800**
1.6TB, Enterprise Performance	**S26361-F5315-E160**
max. 12x per system	

3.5" config: no SAS 3.0 support

Q


P
Section IX -- 2.5" SAS / SATA Hard disk drives
Solid State Disk Drive 2.5" SAS 12G, Mainstream Endurance*
SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray
200GB, Enterprise Performance S26361-F5297-E200
400GB, Enterprise Performance S26361-F5297-E400
800GB, Enterprise Performance S26361-F5297-E800
1.6TB, Enterprise Performance S26361-F5297-E160
max. 24x per system, max. 8x 12Gb/s support
as soon as available
Interface SAS12Gb/s and SAS 6Gb/s.
SAS 12Gb/s support only with PRAID EP400i, *F5243-E1 EP420i, *F5243-E2 and max. 8x per System
*) SSD Mainstream Endurance 10DWPD over 5y
Solid State Disk 2.5", Mainstream Endurance*
SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray
100GB, Mainstream Perfomance S26361-F5303-E100
200GB, Mainstream Perfomance S26361-F5303-E200
400GB, Mainstream Perfomance S26361-F5303-E400
800GB, Mainstream Perfomance S26361-F5303-E800
max. 24x per system
as long as stock
S26361-F4581-E100
SSD SAS 100GB, MLC
Solid State Disk
SAS 6Gb/s
Enterprise Perfomance
hot plug/hot replace tray
max. 24x per system
as long as stock
S26361-F4581-E200
SSD SAS 200GB, MLC
Solid State Disk
SAS 6Gb/s
Enterprise Perfomance
hot plug/hot replace tray
max. 24x per system
as long as stock
S26361-F5225-E100
SSD SATA 100GB, MLC
Solid State Disk
SATA 6Gb/s
Mainstream Perfomance
hot plug/hot replace tray
max. 24x per system
as long as stock
S26361-F5225-E200
SSD SATA 200GB, MLC
Solid State Disk
SATA 6Gb/s
Mainstream Perfomance
hot plug/hot replace tray
max. 24x per system
as long as stock
S26361-F5225-E400
SSD SATA 400GB, MLC
Solid State Disk
SATA 6Gb/s
Mainstream Perfomance
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E514
HD 146GB 15krpm 2.5"
15000rpm,<4,5ms, 16MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F4482-E530
HD 300GB 15krpm 2.5"
15000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
512e HDD Disk Drives: VMware is not supported.
8x Base Unit
+
8x Extension
+
8x Ext. Box
S26361-F3708-E250
HD 250GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F3708-E500
HD 500GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5544-E118
HD 1000GB 7.2krpm 2.5"
1000rpm,<4,5ms, 128MB Cache
SAS 12Gb/s, 512e sector size
hot plug/hot replace tray
max. 24x per system
S26361-F5228-E500
HD 500GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5228-E100
HD 1000GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F3708-E100
HD 1000GB 7.2krpm 2.5"
7200rpm,<9,5ms, 64MB Cache
BC SATA 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E130
HD 300GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E145
HD 450GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E160
HD 600GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E190
HD 900GB 10krpm 2.5"
10000rpm,<4,5ms, 32MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F5247-E112
HD 1.2TB 10krpm 2.5"
10000rpm,<4,5ms, 64MB Cache
SAS 6Gb/s
hot plug/hot replace tray
max. 24x per system
S26361-F3837-L64
SATA DOM 64GB, 3G, Mainstream Endurance, non-hot plug
Special Release
Q


Q
Section X -- PCIe-SSD
PCIe-SSD (occupies one PCIe slot)
max. 4x
S26361-F4522-E351
PCIe-SSD 365GB MLC
ioDrive2 365GB
PCIe 2.0
25nm Lithography
PCIe x4, Low Profile
max. 4x per system
S26361-F4522-E781
PCIe-SSD 785GB MLC
ioDrive2 785GB
PCIe 2.0
25nm Lithography
PCIe x4, Low Profile
max. 4x per system
S26361-F4522-E121
PCIe-SSD 1.2TB MLC
ioDrive2 1.2TB
PCIe 2.0
25nm Lithography
PCIe x4, Low Profile
max. 4x per system
loose delivery: S26361-F4522-L351/L781/L121
Section XI -- External SAS Disk Array & Backup drives
SAS RAID controller for JBOD subsystems
4x
S26361-F3713-E3
RAID Ctrl SAS 6G 8port external
LSI MegaRAID SAS 9286CV-8e
1GB Cache with ECC
RAID 0, 1, 5, 6, 10, 50 & 60
without FBU
SAS 6Gb/sec
8 port external
PCIe x8, MD2 form factor
full height bracket
max. 4 per system
S26361-F3669-E170
Flash Backup Unit
with 70cm cable set
max. 1x per Controller
Please be aware, that a maximum of 3 BBU / FBU are possible in PRIMERGY TX300 S8 / RX350 S8
S26361-F3669-E661
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller
Loose delivery / Option
S26361-F3669-L661
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 RAID Ctrl S26361-F3713-xxx
RAID Advanced Software
free of charge test licence
avaliable: PRIMERGY-PM
SAS-controller for external backup drives
3x
S26361-F3628-E1
SAS Controller 6Gb/s 8 port
LSI SAS9200-8e
SAS 6Gb/sec
ext: 8 port
PCIe 2.0 x4,
max. 3x per system
R

R

Section XII -- Fibre Channel

Fibre Channel Controller for external storage systems

8x

S26361-F3631-E1	S26361-F3631-E2
8GBit/s FC Controller	8GBit/s FC Controller
Qlogic	Qlogic
QLE2560, full height bracket	QLE2562, full height bracket
1 channel 8GBit/sec FC Controller	2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe2 x8, 170mm	PCIe2 x8, 170mm
max. 8x per system	max. 8x per system

A combination of Emulex and Qlogic FC / FCoE controller is not supported

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

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

S26361-F5313-E1 (as soon as available)	S26361-F5313-E2 (as soon as available)
16GBit/s FC Controller	16GBit/s FC Controller
Qlogic	Qlogic
QLE2670, full height bracket	QLE2572, full height bracket
1 channel 16GBit/sec FC Contr.	2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe3 x8, 170mm	PCIe x8, 170mm
max. 8x per system	max. 8x per system

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

S26361-F3961-E1	S26361-F3961-E2
8GBit/s FC Controller	8GBit/s FC Controller
Emulex	Emulex
LPe1250, full height bracket	LPe12002, full height bracket
1 channel 8GBit/sec FC Controller	2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe2 x8, 170mm	PCIe2 x8, 170mm
max. 8x per system	max. 8x per system

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

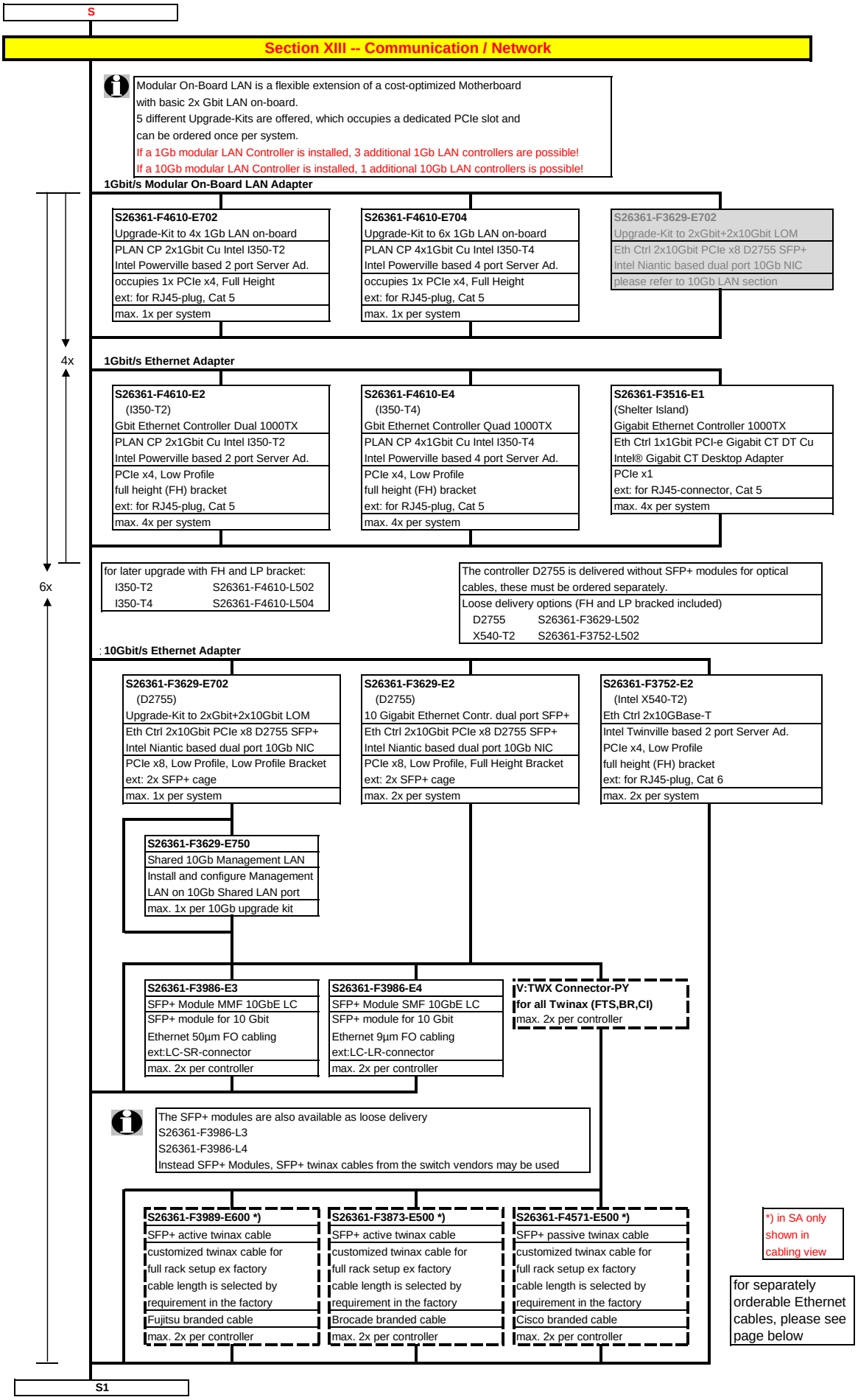
S26361-F4994-E1	S26361-F4994-E2
16GBit/s FC Controller	16GBit/s FC Controller
Emulex	Emulex
LPe16000	LPe16002
1 channel 16GBit/sec FC Contr.	2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber	LC Interface for 50µm Fiber
PCIe3 x8, 170mm	PCIe3 x8, 170mm
max. 8x per system	max. 8x per system

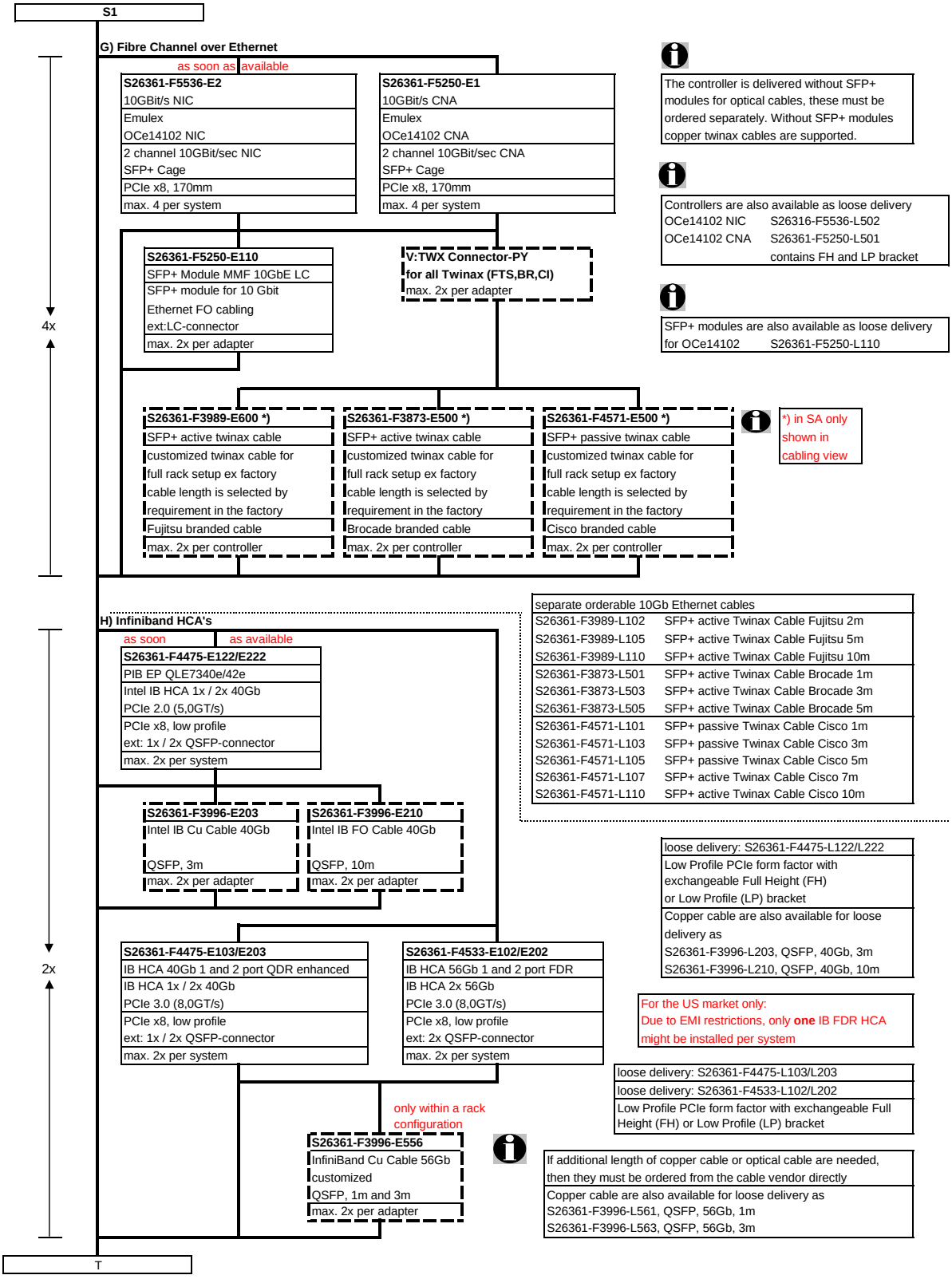
loose delivery:
Single channel S26361-F4994-L501
Dual Channel S26361-F4994-L502
contains LP and FH brackets.

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

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

S


S
Section XIII -- Communication / Network
Modular On-Board LAN is a flexible extension of a cost-optimized Motherboard with basic 2x Gbit LAN on-board.
5 different Upgrade-Kits are offered, which occupies a dedicated PCIe slot and can be ordered once per system.
If a 1Gb modular LAN Controller is installed, 3 additional 1Gb LAN controllers are possible!
If a 10Gb modular LAN Controller is installed, 1 additional 10Gb LAN controllers is possible!
1Gbit/s Modular On-Board LAN Adapter
S26361-F4610-E702
Upgrade-Kit to 4x 1Gb LAN on-board
PLAN CP 2x1Gbit Cu Intel I350-T2
Intel Powerville based 2 port Server Ad.
occupies 1x PCIe x4, Full Height
ext: for RJ45-plug, Cat 5
max. 1x per system
S26361-F4610-E704
Upgrade-Kit to 6x 1Gb LAN on-board
PLAN CP 4x1Gbit Cu Intel I350-T4
Intel Powerville based 4 port Server Ad.
occupies 1x PCIe x4, Full Height
ext: for RJ45-plug, Cat 5
max. 1x per system
S26361-F3629-E702
Upgrade-Kit to 2xGbit+2x10Gbit LOM
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
please refer to 10Gb LAN section
4x
1Gbit/s Ethernet Adapter
S26361-F4610-E2
(I350-T2)
Gbit Ethernet Controller Dual 1000TX
PLAN CP 2x1Gbit Cu Intel I350-T2
Intel Powerville based 2 port Server Ad.
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system
S26361-F4610-E4
(I350-T4)
Gbit Ethernet Controller Quad 1000TX
PLAN CP 4x1Gbit Cu Intel I350-T4
Intel Powerville based 4 port Server Ad.
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 5
max. 4x per system
S26361-F3516-E1
(Shelter Island)
Gigabit Ethernet Controller 1000TX
Eth Ctrl 1x1Gbit PCI-e Gigabit CT DT Cu
Intel® Gigabit CT Desktop Adapter
PCIe x1
ext: for RJ45-connector, Cat 5
max. 4x per system
6x
for later upgrade with FH and LP bracket:
I350-T2 S26361-F4610-L502
I350-T4 S26361-F4610-L504
The controller D2755 is delivered without SFP+ modules for optical cables, these must be ordered separately.
Loose delivery options (FH and LP bracked included)
D2755 S26361-F3629-L502
X540-T2 S26361-F3752-L502
10Gbit/s Ethernet Adapter
S26361-F3629-E702
(D2755)
Upgrade-Kit to 2xGbit+2x10Gbit LOM
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
PCIe x8, Low Profile, Low Profile Bracket
ext: 2x SFP+ cage
max. 1x per system
S26361-F3629-E2
(D2755)
10 Gigabit Ethernet Contr. dual port SFP+
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
PCIe x8, Low Profile, Full Height Bracket
ext: 2x SFP+ cage
max. 2x per system
S26361-F3752-E2
(Intel X540-T2)
Eth Ctrl 2x10GBase-T
Intel Twinville based 2 port Server Ad.
PCIe x4, Low Profile
full height (FH) bracket
ext: for RJ45-plug, Cat 6
max. 2x per system
S26361-F3629-E750
Shared 10Gb Management LAN
Install and configure Management LAN on 10Gb Shared LAN port
max. 1x per 10Gb upgrade kit
S26361-F3986-E3
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit Ethernet 50µm FO cabling
ext:LC-SR-connector
max. 2x per controller
S26361-F3986-E4
SFP+ Module SMF 10GbE LC
SFP+ module for 10 Gbit Ethernet 9µm FO cabling
ext:LC-LR-connector
max. 2x per controller
V:TWX Connector-PY
for all Twinax (FTS,BR,CI)
max. 2x per controller
The SFP+ modules are also available as loose delivery
S26361-F3986-L3
S26361-F3986-L4
Instead SFP+ Modules, SFP+ twinax cables from the switch vendors may be used
S26361-F3989-E600 *)
SFP+ active twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Fujitsu branded cable
max. 2x per controller
S26361-F3873-E500 *)
SFP+ active twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Brocade branded cable
max. 2x per controller
S26361-F4571-E500 *)
SFP+ passive twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Cisco branded cable
max. 2x per controller
*) in SA only shown in cabling view
for separately orderable Ethernet cables, please see page below
S1


S1
G) Fibre Channel over Ethernet
as soon as available
S26361-F5536-E2
10GBit/s NIC
Emulex
OCe14102 NIC
2 channel 10GBit/sec NIC
SFP+ Cage
PCIe x8, 170mm
max. 4 per system
S26361-F5250-E1
10GBit/s CNA
Emulex
OCe14102 CNA
2 channel 10GBit/sec CNA
SFP+ Cage
PCIe x8, 170mm
max. 4 per system
The controller is delivered without SFP+ modules for optical cables, these must be ordered separately. Without SFP+ modules copper twinax cables are supported.
Controllers are also available as loose delivery
OCe14102 NIC S26316-F5536-L502
OCe14102 CNA S26361-F5250-L501
contains FH and LP bracket
S26361-F5250-E110
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit Ethernet FO cabling
ext:LC-connector
max. 2x per adapter
V:TWX Connector-PY
for all Twinax (FTS,BR,CI)
max. 2x per adapter
SFP+ modules are also available as loose delivery
for OCe14102 S26361-F5250-L110
4x
S26361-F3989-E600 *)
SFP+ active twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Fujitsu branded cable
max. 2x per controller
S26361-F3873-E500 *)
SFP+ active twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Brocade branded cable
max. 2x per controller
S26361-F4571-E500 *)
SFP+ passive twinax cable
customized twinax cable for full rack setup ex factory
cable length is selected by requirement in the factory
Cisco branded cable
max. 2x per controller
*) in SA only shown in cabling view
separate orderable 10Gb Ethernet cables
S26361-F3989-L102 SFP+ active Twinax Cable Fujitsu 2m
S26361-F3989-L105 SFP+ active Twinax Cable Fujitsu 5m
S26361-F3989-L110 SFP+ active Twinax Cable Fujitsu 10m
S26361-F3873-L501 SFP+ active Twinax Cable Brocade 1m
S26361-F3873-L503 SFP+ active Twinax Cable Brocade 3m
S26361-F3873-L505 SFP+ active Twinax Cable Brocade 5m
S26361-F4571-L101 SFP+ passive Twinax Cable Cisco 1m
S26361-F4571-L103 SFP+ passive Twinax Cable Cisco 3m
S26361-F4571-L105 SFP+ passive Twinax Cable Cisco 5m
S26361-F4571-L107 SFP+ active Twinax Cable Cisco 7m
S26361-F4571-L110 SFP+ active Twinax Cable Cisco 10m
H) Infiniband HCA's
as soon as available
S26361-F4475-E122/E222
PIB EP QLE7340e/42e
Intel IB HCA 1x / 2x 40Gb
PCIe 2.0 (5,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
S26361-F3996-E203
Intel IB Cu Cable 40Gb
QSFP, 3m
max. 2x per adapter
S26361-F3996-E210
Intel IB FO Cable 40Gb
QSFP, 10m
max. 2x per adapter
loose delivery: S26361-F4475-L122/L222
Low Profile PCIe form factor with exchangeable Full Height (FH) or Low Profile (LP) bracket
Copper cable are also available for loose delivery as
S26361-F3996-L203, QSFP, 40Gb, 3m
S26361-F3996-L210, QSFP, 40Gb, 10m
2x
S26361-F4475-E103/E203
IB HCA 40Gb 1 and 2 port QDR enhanced
IB HCA 1x / 2x 40Gb
PCIe 3.0 (8,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
S26361-F4533-E102/E202
IB HCA 56Gb 1 and 2 port FDR
IB HCA 2x 56Gb
PCIe 3.0 (8,0GT/s)
PCIe x8, low profile
ext: 2x QSFP-connector
max. 2x per system
For the US market only:
Due to EMI restrictions, only one IB FDR HCA might be installed per system
loose delivery: S26361-F4475-L103/L203
loose delivery: S26361-F4533-L102/L202
Low Profile PCIe form factor with exchangeable Full Height (FH) or Low Profile (LP) bracket
only within a rack configuration
S26361-F3996-E556
InfiniBand Cu Cable 56Gb
customized
QSFP, 1m and 3m
max. 2x per adapter
If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly
Copper cable are also available for loose delivery as
S26361-F3996-L561, QSFP, 56Gb, 1m
S26361-F3996-L563, QSFP, 56Gb, 3m
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Section XIV -- System Management Products (remote Management)

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

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

later upgrade
iRMC S4 advanced pack
S26361-F1790-L243

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

Section XV -- Miscellaneous

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

Section XVI -- country specific options

S26361-F3301-E123
Certification for India

For shipments to India mandatory!

S26361-F3301-E120
CCC Certification for China

For shipments to China the (CCC) order code, delivering the CCC certification is mandatory!

S26361-F1452-E100
REGION KIT EMEA AP
For Shipments to EMEA / Asia and Pacific regions
1x per system

S26361-F1452-E110
REGION KIT JP
For Shipments to Japan regions
1x per system

PRIMERGY TX300 S8 Floorstand

Hint: No country specific powercord configurable with Certification for India and China (CCC)

4x

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

T26139-Y1740-E10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10	UK, IR
T26139-Y1745-E10	Italy
T26139-Y1746-E10	Denmark
T26139-Y1751-E10	China
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable

PRIMERGY RX350 S8 Rack

Power cord options (1x per PSU)

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

USB keyboards for Tower Servers for following countries:

USB professional Keyboard KBPC PX ECO	Country version	FUJITSU Keyboard KB521 USB (grey)
S26381-K341-E104	Czech/Slovak	S26381-K521-E104
S26381-K341-E110	USA / international	S26381-K521-E110
S26381-K341-E120	Germany	S26381-K521-E120
S26381-K341-E122	Germany / Int	S26381-K521-E122
S26381-K341-E140	France	S26381-K521-E140
S26381-K341-E154	Sweden / Finland	S26381-K521-E154
S26381-K341-E165	United Kingdom	S26381-K521-E165
S26381-K341-E170	Switzerland	S26381-K521-E170
S26381-K341-E180	Spain	S26381-K521-E180
S26381-K341-E185	Italy	S26381-K521-E185

USB Mouse:		
Mouse M510 Grey (Phase Out)	**S26381-K457-E101**	**S26381-K457-L101**
Mouse M520 Black (as soon as available)	**S26381-K467-E100**	**S26381-K467-L100**
Mouse M520 Grey (as soon as available)	**S26381-K467-E101**	**S26381-K467-L101**
Mouse M530 Black/Grey (as soon as available)	**n/a**	**S26381-K468-L101**
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	
external optical drives: very low request --> no standard offer		

End PRIMERGY TX300 S8

End PRIMERGY RX350 S8

Change Report

Date	Order number/section	Changes
2015-10-27	USB mouse portfolio	USB mouse order codes updated
2015-07-01	S26361-F5243-x	Corrected Typos for PRAID EP400i and PRAID EP420i (EP was missing)
2015-06-11	T26139-Y1751-E10	China cabel added and country specific power cords added
2015-02-27	S26361-F5520-E*	Added 2.5" SAS 6G 15K HDD up to 600GB within 3.5" Carrier
2015-02-17	S26361-F3903-E600	Added HD SATA 6G 6TB 7.2K 512e HOT PL 3.5" BC
2015-01-27	Acc drives & HDD box	S26361-F2826-E105 deleted
2014-12-22		Explanation Text for GRID cards changed / reworked
2014-11-03	Conf.diagram 2.5" HDD	hints for PCIe SSD removed
2014-10-20	S26361-F5536-E2	added Emulex OCe14012 dual channel 10Gb NIC
2014-09-01	GFX/FC	limitation "Emulex / Xeon Phi" only in UEFI mode is deleted
2014-08-25	GFX	all x16 Cards require a 2nd CPU
2014-08-04	S26361-F5313-xxx	16Gb Qlogic added
2014-07-30	Keyboards, USB devices	K520 are EoL --> new KB K521; USB devices added
2014-07-28	S26361-F2826-E244	corrected: OOB S26361-F2826-E244 - only for up to 8x HDD
2014-07-22	Link to configurator	corrected on folder "instructions"
2014-07-10	S26361-F3787-E1	LTO6 drive: LTFS (Linear Tape File System) is not supported
2014-07-07	S26361-F5315-E*	Added 3.5" SAS 12G SSDs
2014-07-03	S26361-F5243-E170	order code of FBU was wrong (changed from -E125)
2014-07-02	S26361-F2222-E40 / -L40	NVIDIA Tesla K40 added
2014-06-30	S26361-F3301-E123	Added certification for India
2014-06-16	S26361-F3240-xxx	
2014-06-16	S26361-F3239-xxx	
2014-06-16	S26361-F3242-E1 / -L1	
2014-06-10	S26361-F5319-E*	Added 3.5" SATA 6G SSDs
2014-05-19	S26361-F3848-E517	
2014-05-12	sw PAGES 32/64 bit	deleted
2014-05-09	PRIMERGY SX350 S8	Added new base version
2014-05-06	S26361-F5250-E1	Emulex OCe14102 integrated
2014-03-31	2.5" Mod. RAID	many changes, added Cougar 4 (2GB)
2014-04-01	SAS Expander in 2.5"	SAS Expander can be choosen without "upgrade to 24x HDDs" (for pure SAS2.0 configurations only); L-parts corrected & added
2014-03-25	S26361-F1790-L243	added
2014-03-26	S26361-F3713-E3	changed from 1x per system --> 4x per System
2014-03-06	HDD ooB monitoring	inserted into System Management products
2014-03-06	PCIe SSD	inserted into section "ext. SAS contr.; changed name of folder
2014-02-13	2.5" Mod. RAID	inserted E324 medium cage, updated texts, changed structure
2014-02-10	S26361-F2222-E924	NVIDIA GRID K2 added
2014-01-30	S26361-F5303-*	New SATA SSDs added.
2014-01-30	S26361-F5297-*	New SAS 12G SSDs added.
2014-01-28	all FC controller	max. count changed from 4 to 8
2014-01-21	Cover	Content list corrected
2013-11-29	S26361-F3837-L64	SATA DOM added
2013-12-11	Conf Diagram 2.5"	HDD boxes corrected (PCIe in the medium area), bottom area only SAS2.0 or SAS3.0
2013-12-02	redundant fan kit	2nd CPU requires always a redundant fan kit
2013-10-28		restriction for 2.5" BC-SAS HDD with "*F3554-E8" removed.
2013-10-18	SAS Expander	Resourcensteuerung: requires minimum 1x SAS2.0 RAID controller (Cougar 2 or 3)
2013-10-18	PCIe Card lenght	corrected
2013-10-16	S26361-F4610-E2 / -E4	added new 1Gb NICs from Intel
2013-10-11	SAS3.0 Controller	inserted in 2.5"Mod. RAID
2013-10-11	2.5" Mod. RAID	simplified and new structured
2013-10-09	S26113-F615-E10	add comment "110V range not supported", delivery starts Jan 2014
2013-10-08	S26113-F574-E12	corrected: 800W PSU
2013-09-19		Memory hint on CPU page extended
2013-09-13	S26361-F5247-E112	HDD 1.2TB SAS 10K added.
2013-09-01		First release