PRIMERGY RX2540 M4
2U Rack Server

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 RX2540 M4
2		describes rack mount kits and services
3	CPU	Order code and Infos of Intel® Xeon® Processor Scalable Family CPU
4	RAM	DDR4 System memory (RAM) and memory modes
5	GFX_FPGA	**FPGA-cards,** Graphics-, Grid-cards, GPU and Xeon Co processors and other graphics options
6	HD_cage	Drive cage and PCIe riser options
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_FC_IB	LAN Components
12		Fibre Channel Controller
13		Infiniband Controller
14	PSU	Power supply units, power cables, country specific opt.
15	others	System Management, ATD, RS232 port, TPM module
16	USB_devices	Keyboards, Mice, USB devices

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 prerequesites, technical back ground, configuration rules, limitations, ...

S26361-F4610-E2 **S26361-F4610-L3**	<-- order code E-part (bold) -- <-- order code L-part (bold)
PLAN 2x1Gb Ethern. Controller	<-- "name" of this part
i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors	<--description of this part, in same cases as well description of content
PCIe Gen2 x4 full height card	<--requires a free PCIe slot --> means total amount of PCIe slots reduced
max. 6x per system	<--indicates how often this part can be configured in the related Server

For further information see:

Link to datasheet:
http:// xxx

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)

Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage y inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice

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	"Einbau-Part"	"e.g. S26361-F1234-**E**240" ordercode with "E" means it is either integrated into to Server (CPU, Mem, ..) or integrated shipping box (Keyboard, Mouse, ..)
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234-**L**240" ordercode with "L" means, the part will be shipped with extra package, may be as well with shipment

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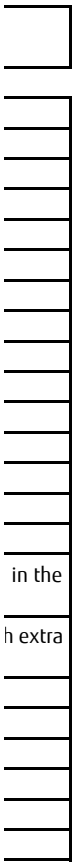
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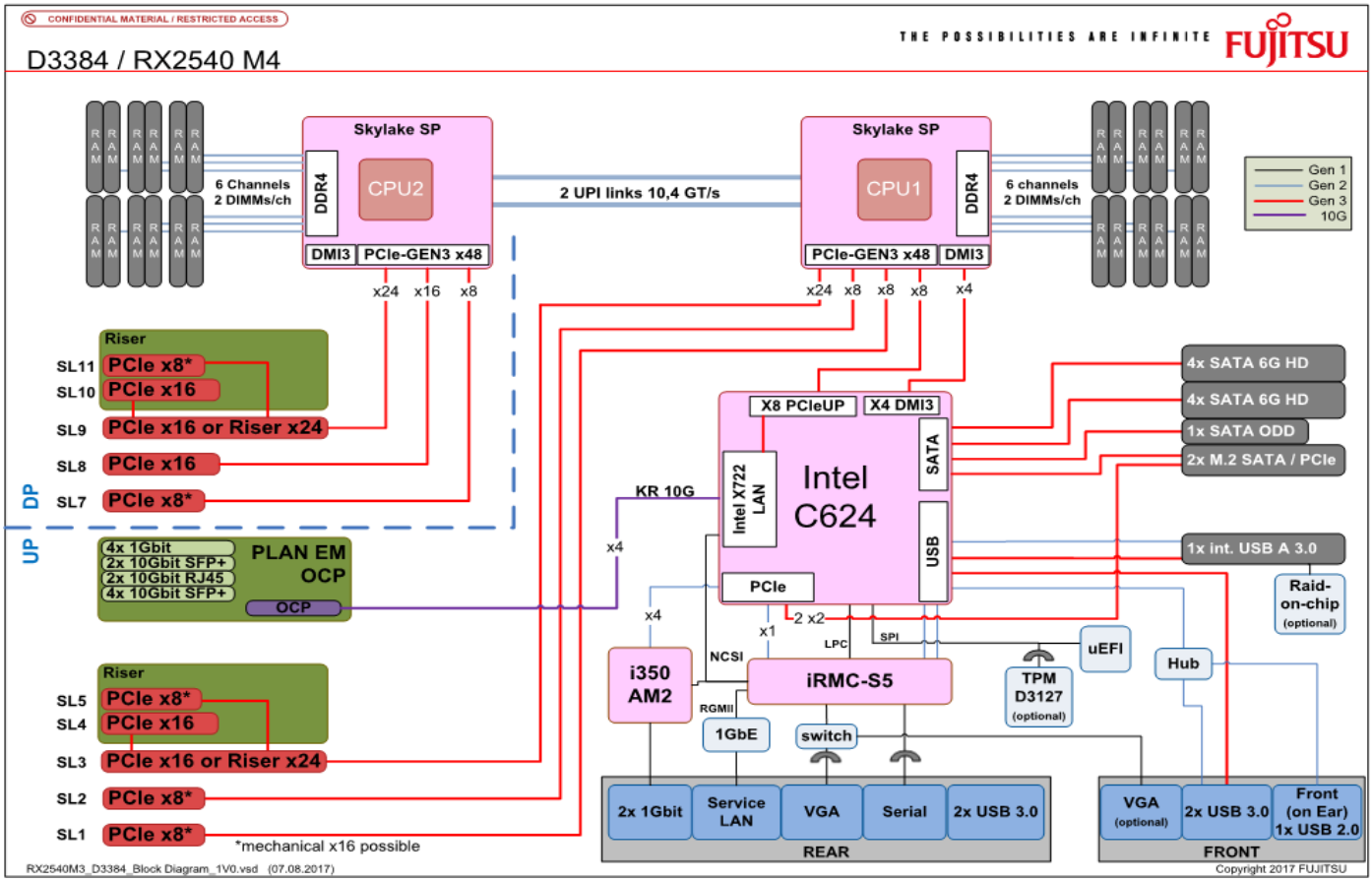
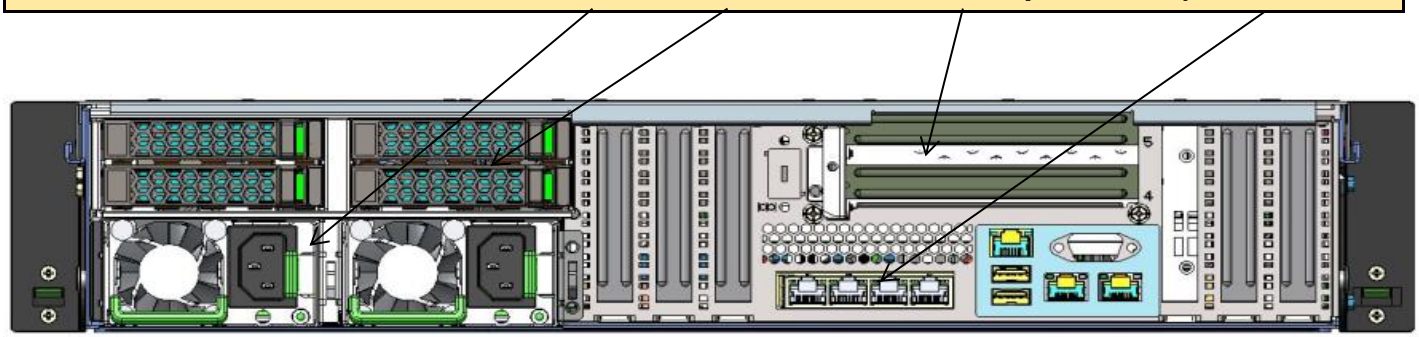
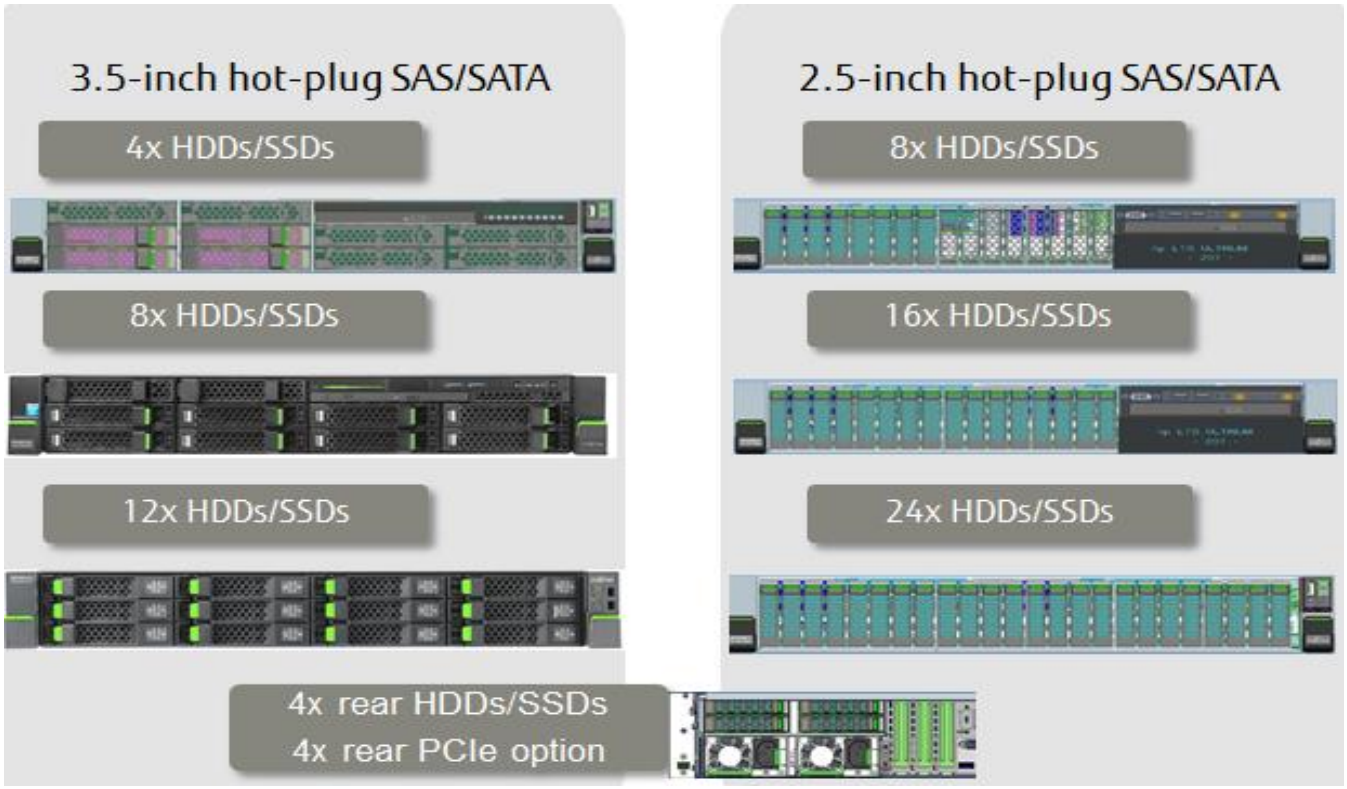
PRIMERGY RX2540 M4 schematics of the System board



PRIMERGY RX2540 M4 rear view with 2x PSU, 4x rear SFF or PCIe riser option and dynamic LoM



PRIMERGY RX2540 M4 front view with drives and operation panel



recommended components for RX2540 M4	#
Independant Mode installation	1x
PLAN EM 4x1Gb T interface card	1x
Region kit APAC/EMEA/India	1x
iRMC advanced pack	1x
Modular PSU 450W platinum hot plug	2x

Chapter 1 - base unit

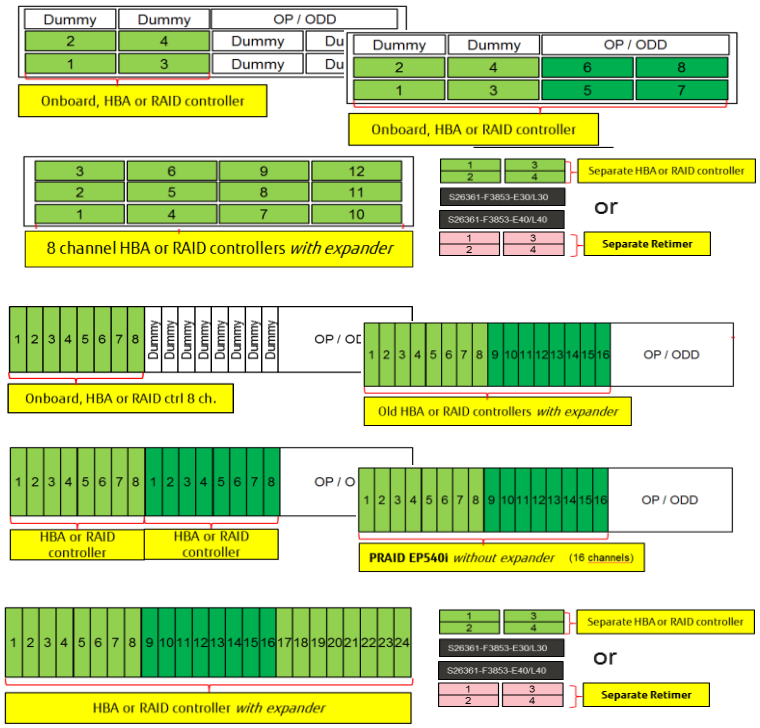
Start

Power supply units & cooling:
The PRIMERGY RX2540 M4 offers bays for 1x or 2x direct attached hot plug (opt. redundant) power supply units of 450W, 800W and 1200W with up to 96% efficiency. The PRIMERGY RX2540 M4 comes equipped with ultimate performance processor heat pipes and 6 high performance single hot plug fans (N+1 redundant).
Server Management:
iRMC S5 (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 easily highlight 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 D3384 "made in Germany" based on Chipset Intel® C624 (Lewisburg 4)
> 2 serial KTI links
> Up to two Intel® Xeon® Processor Scalable Family CPUs
Slots: per default, 6 PCIe slots are on board - please see schematics in "Description"
> 3 PCIe slots low profile, 198 mm length @ first CPU:
Slot 1 PCIe-Gen3 x8 (notched to install x16 cards)
Slot 2 PCIe-Gen3 x8 - preferred for first modular RAID/SAS controller
Slot 3 PCIe-Gen3 x16
> 3 PCIe slot low profile, 198 mm length @ second CPU:
Slot 7 PCIe-Gen3 x8 (notched to install x16 cards)
Slot 8 PCIe-Gen3 x16
Slot 9 PCIe-Gen3 x16
Maximum 8 PCI slots are possible with PCIe riser card options (4x full height, please see chapter 5)
Onboard RAID 0/1 6Gbit/s available for up to 8x SATA drives
System RAM up to DDR4-2666 MHz
3.072 GB memory with 24x DDR4 LRDIMMs (12 per CPU)
Memory speed depends on CPU and configuration, please see folder "CPU" and "RAM" for further details.
LAN:
LAN on Motherboard with 2x1Gbit/s (RJ45) plus the high performance Chip Intel LBG4 with flexble LAN connections - options for 4x1Gbit/s (RJ45), 2x10Gbit/s (RJ45), 2x10Gbit/s (SFP+) and 4x10Gbit/s (SFP+) available.
Software:
*** ServerView Suite Software option**

Connectivity	
Interfaces at rear side	Interfaces at front
- 1 service LAN RJ45 (1 Gbit)	for base units with less HDD: 2x USB 3.0 and front VGA option
- 2x RJ45 with integrated LEDs for fixed onboard 1Gb LAN	for base units with max HDD: 1x USB2.0 (on "ear"), no front VGA option
- 1x VGA (15 pins)	Interfaces internal
- 2x USB 3.0 UHCI	- 1x USB 3.0
- 1x serial 16550 interface	- 2x M.2
- Slot for interface cards from INTEL (OCP FF) /w up to 4 LAN ports driven by Lewisburg chip	- 2x 4* SATA 6G

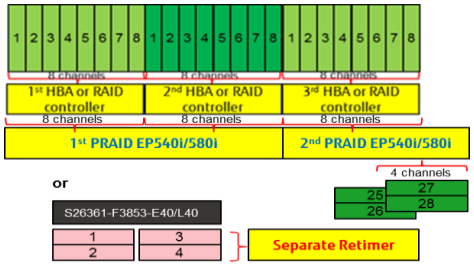
Rack version for 19'' racks with 2 height units	
No PSU included in base unit	
Basic unit is without CPU and Memory For an orderable basic unit first CPU and one memory = first memory has to be selected	
Basic units LFF with	
4x 3.5" HDD bays	S26361-K1567-V104
Option upgrade 4x LFF	S26361-F2495-E108
No CPU TDP limitation with ATD40 option, ATD45 max 150W! No 4x rear SFF option!	
12x 3.5" HDD bays	S26361-K1567-V112
Including SAS expander for 8 channel controller	
No limitation for CPU TDP, no ATD40/45 option 4x rear SFF option with max. 140W @ sep. ctrl.	

Basic units SFF with	
8x 2.5" HDD bays	S26361-K1567-V408
Option upgrade 8x SFF	S26361-F2495-E416
No CPU TDP limitation with ATD40 option, ATD45 max 150W! No 4x rear SFF option!	
16x 2.5" HDD bays	S26361-K1567-V216
Without SAS expander for configuration with - 2x HBA or RAID controllers (mirrored) or - 16 channel PRAID EP540i	
No CPU TDP limitation with ATD40 option, ATD45 max 150W! No 4x rear SFF option!	
24x 2.5" HDD bays	S26361-K1567-V424
No limitation for CPU TDP, no ATD40/45 option 4x rear SFF option with max. 140W @ sep. ctrl.	

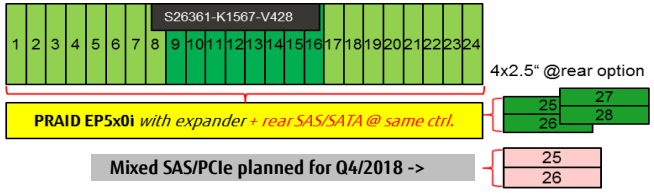


Beneath this five standard basic units there are use case specific basic units available.
These may be pre-configured with special components according workload and optimized for a specific use case.
There might be different configuration restrictions compared to the seven standard basic units, too...

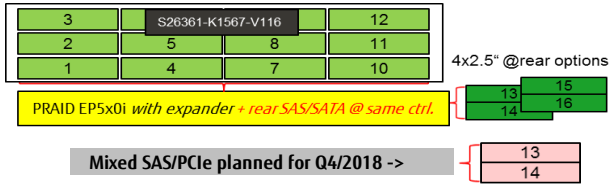
3x 8x 2.5" HDD bays S26361-K1567-V238
VSAN ready node without SAS expander with
- 3x HBA or RAID 8 channel controllers (Triple)
or 2x 16-channel-ctrl PRAID EP540i/580i
plus 4x rear SAS/SATA option @ same ctrl. (140W)
No limitation for CPU TDP, no ATD40/45 option
4x rear SFF option with max. 140W @ sep. ctrl.



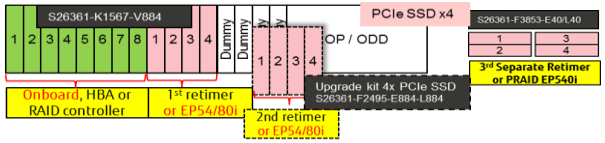
Basic units SFF optimized for Internal Storage
28x 2.5" big single storage S26361-K1567-V428
Configuration includes SAS expander, needs 1x PRAID EP5x0i
and has option for 4x 2.5" rear option (SAS or PCIe)
No limitation for CPU TDP, no ATD40/45 option
4x rear SFF option with max. 140W @ same ctrl.



Basic units LFF optimized for Internal Storage
12x 3.5" +4x 2.5" big single storage S26361-K1567-V116
Configuration includes SAS expander, needs 1x PRAID EP5x0i
and has option for 4x 2.5" rear option (SAS or PCIe)
No limitation for CPU TDP, no ATD40/45 option
4x rear SFF option with max. 140W @ sep. ctrl.

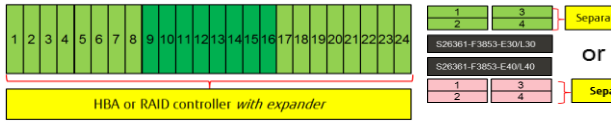


Basic unit SFF optimized for Flash applications (PCIe SSD)
8x 2.5" + 4x PCIe SSD **basic hybrid flash** S26361-K1567-V884
Configuration requires **1x Retimer or PRAID EP54/80i** for 4x PCIe SSD each
No mix of Retimers and PRAID EP54/80i allowed!
4x to 8x PCIe SSD upgrade option available S26361-F2495-E884 / L884
No CPU TDP limitation with ATD40 option,
4x rear SFF option with max. 140W @ sep. ctrl.

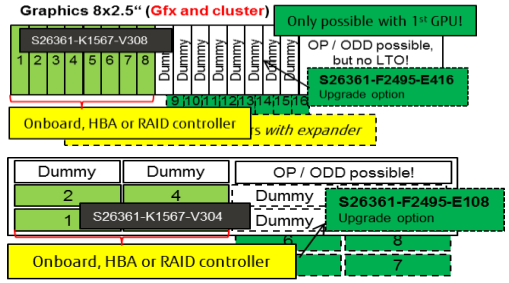


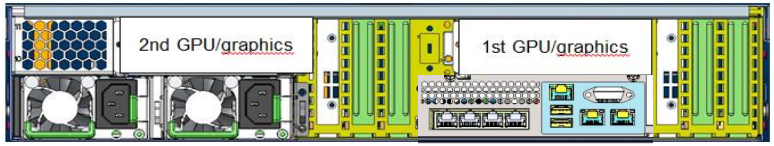
PRAID EP540/80i: max. 3x NVMe, + 1 additional PRAID EP5xxi for SAS/SATA
HW-RAID NVMe requires VS35 and S26361-F3776-E900

Basic units Liquid Cooled for Performance Storage applications	
24x 2.5" LC big performance storage	S26361-K1567-V724
Configuration includes SAS exp., LC kit for CPUs and memory	
and has option for 4x 2.5" rear option (SAS or PCIe) with	
no limitation for CPU 205W and ambient temperature max 45°C!	
On special release only!	



Basic units for best graphics applications	
8x 2.5" best graphics	S26361-K1567-V308
Configuration includes kit for first GPU/graphics card!	
8x 2.5" upgrade option limits to 1x GPU only!	S26361-F2495-E416
***New* limitation: CPU max *165W* with ambient temperature max 35°C!**	
4x 3.5" best graphics	S26361-K1567-V304
Configuration includes kit for first GPU/graphics card!	
4x 3.5" upgrade option has no limitation	S26361-F2495-E108
***New* limitation: CPU max *165W* with ambient temperature max 35°C!**	





PRIMECENTER Rack

Chapter 2 - Rack architecture

PRIMECENTER Rack

Rack Architecture				Remark	
No RMK	1x	Only with loose server order	**S26361-F2735-E111**	**n/a**	no mounting in rack
Rack Mount Kit F1 CMA QRL LV	1x	RMK for server w/max. 2U, w/CMAdapter	**S26361-F2735-E175**	**S26361-F2735-L175**	precondition for CMArm
Bracket 1U for asymmetrical rack	1x	Mounting or enclose of RMK in asym.rack incl.1U bracket	**S26361-F4530-E11**	**n/a**	for asymmetrical rack
Mounting of RMK in symmetrical rack	1x	Mounting or enclose of RMK in symmetrical racks w/o support bracket	**S26361-F4530-E10**	**n/a**	for symmetrical rack
Rack Mount Kit F1 LV	1x	For server max. 2 height units (U) or max. 35 kg, w/o CMAdapter	**S26361-F2735-E176~~n/a~~**	**S26361-F2735-L176**	best choice for 3rd party racks -E176 will be available from Sep.-18.
Rack Mount Kit F1 Slide-In 2U	1x	RMK for RX2540 M4 , w/o CMAdapter	**S26361-F2735-E432**	**S26361-F2735-L432**	for symmetrical rack
Rack Cable Arm 2U	1x	Cable mgmt. arm for 2U or higher	**S26361-F2735-E82**	**S26361-F2735-L82**	RMK with CMAdapter needed
Cable mgmt. lateral for asym.racks	1x	For server/storage subsyst.2U or higher	**S26361-F2735-E71**	**S26361-F2735-L7**	occupies 1U above RMK
Cable arm 2U PCR and 3rd partyracks	1x	To be mounted at right or left rack pillar behind servers higher oder equal 2U	**n/a**	**S26361-F2201-L20**	mounted above RMK -F2735-L176
Rack installation ex works	1x	Rack will be delivered completely premounted and tested ex factory	**SNP:SY-F1647E301-P**	**n/a**	to be ordered 1x per installed rack server
Adapter angle	1x	For asymm. rack, 1U, up to 15kg	**n/a**	**S26361-F2735-L10**	needed for mounting of RMK in asym. rack

A

Chapter 3 - CPU

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With one processor LOM, iRMC and 12x DIMM slots are available
>> With two processors all 24x DIMM slots are available.
>> To configure 2nd CPU an additional cooler kit is required.
>> Empty CPU slot have to be filled up with a CPU Dummy! * HT = Hyper Threading

Xeon Bronze 3100 - Basic (Shelf 1)		
64-bit Intel Xeon processor supporting DDR4 @ 2133MHz & QPI Bus @ 9.6 GT/s		
Xeon Bronze 3104 6C nHT 1.7GHz 85W	**S26361-F4051-E104**	**S26361-F4051-L104**
Xeon Bronze 3106 8C nHT 1.7GHz 85W	**S26361-F4051-E106**	**S26361-F4051-L106**
Xeon Silver 4100 - Standard (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus 9.6 GT/s		
Xeon Silver 4108 8C 1.8GHz 85W	**S26361-F4051-E108**	**S26361-F4051-L108**
Xeon Silver 4110 8C 2.1GHz 85W	**S26361-F4051-E110**	**S26361-F4051-L110**
Xeon Silver 4114 10C 2.2GHz 85W	**S26361-F4051-E114**	**S26361-F4051-L114**
Xeon Silver 4116 12C 2.1GHz 85W	**S26361-F4051-E116**	**S26361-F4051-L116**
Xeon Silver 4100 - Frequency Optimized (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s		
Xeon Silver 4112 4C 2.6GHz 85W	**S26361-F4051-E212**	**S26361-F4051-L212**
Xeon Gold 5100 - Advanced (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5115 10C 2.4GHz 85W	**S26361-F4051-E115**	**S26361-F4051-L115**
Xeon Gold 5118 12C 2.3GHz 105W	**S26361-F4051-E118**	**S26361-F4051-L118**
Xeon Gold 5120 14C 2.2GHz 105W	**S26361-F4051-E120**	**S26361-F4051-L120**
Xeon Gold 5100 - Frequency Optimized (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5122 4C 3.6GHz 105W	**S26361-F4051-E222**	**S26361-F4051-L222**
Xeon Gold 6100 - Advanced (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 6130 16C 2.1GHz 125W	**S26361-F4051-E130**	**S26361-F4051-L130**
Xeon Gold 6140 18C 2.3GHz 140W	**S26361-F4051-E140**	**S26361-F4051-L140**
Xeon Gold 6138 20C 2.0GHz 125W	**S26361-F4051-E138**	**S26361-F4051-L138**
Xeon Gold 6148 20C 2.4GHz 150W	**S26361-F4051-E148**	**S26361-F4051-L148**
Xeon Gold 6152 22C2.1GHz 140W	**S26361-F4051-E152**	**S26361-F4051-L152**
Xeon Gold 6100 - Frequency Optimized (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 6128 6C 3.4GHz 115W	**S26361-F4051-E228**	**S26361-F4051-L228**
Xeon Gold 6134 8C 3.2GHz 130W	**S26361-F4051-E234**	**S26361-F4051-L234**
Xeon Gold 6126 12C 2.6GHz 125W	**S26361-F4051-E226**	**S26361-F4051-L226**
Xeon Gold 6136 12C 3.0GHz 150W	**S26361-F4051-E236**	**S26361-F4051-L236**
Xeon Gold 6132 14C 2.6GHz 140W	**S26361-F4051-E232**	**S26361-F4051-L232**
Xeon Gold 6142 16C 2.6GHz 150W	**S26361-F4051-E242**	**S26361-F4051-L242**
Xeon Gold 6144 8C 3.5GHz 150W	**S26361-F4051-E244**	**S26361-F4051-L244**
Xeon Gold 6146 12C 3.2GHz 165W	**S26361-F4051-E246**	**S26361-F4051-L246**
Xeon Gold 6150 18C 2.7GHz 165W	**S26361-F4051-E250**	**S26361-F4051-L250**
Xeon Gold 6154 18C 3.0GHz 200W	**S26361-F4051-E254**	**S26361-F4051-L254**
Xeon Platinum 8100 Advanced (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Platinum 8153 16C 2.0GHz 125W	**S26361-F4051-E153**	**S26361-F4051-L153**
Xeon Platinum 8160 24C 2.1GHz 150W	**S26361-F4051-E160**	**S26361-F4051-L160**
Xeon Platinum 8164 26C 2.0GHz 150W	**S26361-F4051-E164**	**S26361-F4051-L164**
Xeon Platinum 8170 26C 2.1GHz 165W	**S26361-F4051-E170**	**S26361-F4051-L170**
Xeon Platinum 8176 28C 2.1GHz 165W	**S26361-F4051-E176**	**S26361-F4051-L176**
Xeon Platinum 8180 28C 2.5GHz 205W	**S26361-F4051-E180**	**S26361-F4051-L180**
Xeon Platinum 8100 - Frequency optimized		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Platinum 8168 24C 2.7GHz 205W	**S26361-F4051-E268**	**S26361-F4051-L268**
Xeon Gold 6100M - Advanced (Shelf 4; 1.5TB p. Socket)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 6134M 8C 3.2GHz 130W	**S26361-F4051-E334**	**S26361-F4051-L334**
Xeon Gold 6140M 18C 2.3GHz 140W	**S26361-F4051-E340**	**S26361-F4051-L340**
Xeon Gold 6142M 16C 2.6GHz 150W	**S26361-F4051-E342**	**S26361-F4051-L342**
Xeon Platinum 8100M - Advanced (1.5TB p. Socket)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Platinum 8160M 24C 2.1GHz 150W	**S26361-F4051-E360**	**S26361-F4051-L360**
Xeon Platinum 8170M 26C 2.1GHz 165W	**S26361-F4051-E370**	**S26361-F4051-L370**
Xeon Platinum 8176M 28C 2.1GHz 165W	**S26361-F4051-E376**	**S26361-F4051-L376**
Xeon Platinum 8180M 28C 2.5GHz 205W	**S26361-F4051-E380**	**S26361-F4051-L380**

B1

B1

Xeon Silver 4100 - Embedded (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s		
Xeon Silver 4114T 10C 2.2GHz 85W (only Special Release)	**S26361-F4051-E414**	**S26361-F4051-L414**
Xeon Gold 5100 - Embedded (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5119T 14C 1.9GHz 85W	**S26361-F4051-E419**	**S26361-F4051-L419**
Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)		
Cooling Kit 2nd CPU	**S26361-F3849-E100**	
Cooling kit up to 160W TDP		**S26361-F4051-L841**
Cooling kit up to 205W TDP		**S26361-F4051-L842**

C

Chapter 4 - DDR4 System memory

C

Each CPU offers 12 Slots for DDR4 Memory Modules organised in 2 Banks and 6 Channels with 2 Memory Controllers (3 Channels each).
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 DDR4 Memory Modules available: RDIMM, RDIMM 3DS (also known as TSV) and LRDIMM
Mix of these different kind of memories is not allowed.

Supported memory capacities per CPU:
384 GB DDR4 RDIMM (12x 32GB 2Rx4)
1.536 GB DDR4 RDIMM 3DS (12x 128GB 8Rx4) - **Special CPU type with a "M" at the end is required while using 128GB modules!**

Supported memory capacities per System:
768GB using RDIMM
3.072GB using RDIMM 3DS technology with 128GB per module

The memory speed is independent from the configuration (1DPC or 2DPC) but restricted by the CPU SKU (max. 2.666 MT/s).
DDR4 memory is operated at 1.2V

S26361-F3694-E10	Independent Mode Installation
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined	
Requires minimum 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.	
Requires minimum 2x 1R/2R or 1x 4R/8R modules per CPU	
S26361-F3694-E2	Perfomance Mode Installation
BIOS Setup factory preinstalled for maximum Performance, six identical memory modules will be equipped in one memory bank to achieve highest memory performance. All six modules are active and full capacity can be used.	
Multiple of 6 identical modules to be configured per CPU	
S26361-F3694-E3	Mirrored Channel Mode Installation
BIOS preconfiguration for Mirror mode. Two or three identical memory modules are always equipped at one memory controller to use the mirrored channel mode. Half of the modules contain active data, the remaining modules contain mirrored data. See details below.	
Multiple of 6 identical modules to be configured per CPU	

Resulting memory capacity / Rank Sparing Mode, 1 Channel populated

	RDIMM						RDIMM 3DS				LRDIMM	
	16GB	1R	16GB	2R	32GB	2R	64GB	4R	128GB	8R	64GB	4R
1DPC			8GB		16GB		32GB		64GB		48GB	
2DPC	16GB		24GB		48GB		96GB		192GB		112GB	

Apparently 3DS-DIMMs don't behave like 4Rx4 modules but as 2Rx4; same situation for 8Rx4 organized modules (=> 2Rx4).
Result is, that in rank-sparing mode the memory loss is half of one module capacity. This is shown in table above.

DDR4 rg x8 2666			
8GB (1x8GB) 2Rx8 DDR4-2666 R ECC	**S26361-F4026-E118**	**S26361-F4026-L118**	special release only
16GB (1x16GB) 2Rx8 DDR4-2666 R ECC	**S26361-F4026-E116**	**S26361-F4026-L116**	special release only
DDR4 rg x4 2666			
8GB (1x8GB) 1Rx4 DDR4-2666 R ECC	**S26361-F4026-E208**	**S26361-F4026-L208**	
16GB (1x16GB) 2Rx4 DDR4-2666 R ECC	**S26361-F4026-E226**	**S26361-F4026-L226**	special release only
16GB (1x16GB) 1Rx4 DDR4-2666 R ECC	**S26361-F4026-E216**	**S26361-F4026-L216**	
32GB (1x32GB) 2Rx4 DDR4-2666 R ECC	**S26361-F4026-E232**	**S26361-F4026-L232**	
DDR4 rg 2666 3DS			
64GB (1x64GB) 4Rx4 DDR4-2666 3DS ECC	**S26361-F4026-E364**	**S26361-F4026-L364**	
128GB (1x128GB) 8Rx4 DDR4-2666 3DS ECC	**S26361-F4026-E328**	**S26361-F4026-L328**	
DDR4 lr 2666			
64GB (1x64GB) 4Rx4 DDR4-2666 LR ECC	**S26361-F4026-E464**	**S26361-F4026-L464**	

D

Detailed infomation

Mode	Configuration	RDIMM	RDIMM LRDIMM	Use case, advantage
		x8	x4	
SDDC (chipkill) support	any	no	yes	supports detecting multi-bit errors
Independant channel mode	1 or 2 Modules per Bank	yes	yes	offers max. flexibility, upgradeability, capacity
Mirrored channel mode *)	6 identical Modules / Bank	no	yes	offers maximum security
Performance mode	6 identical Modules / Bank	yes	yes	offers maximum performance and capacity
Rank sparing mode *)	min. 2 Ranks / Channel	no	yes	balances performance and capacity

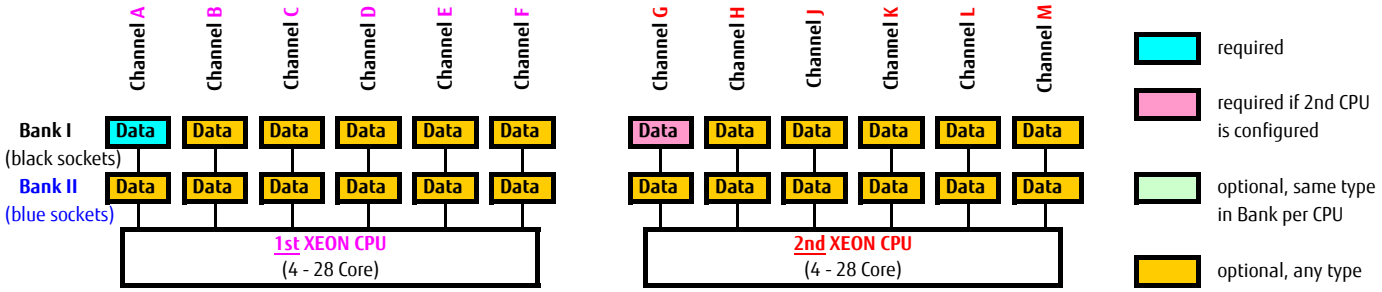
*) For the delivery ex factory the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	RDIMM	RDIMM 3DS	Notes
Min. Memory per CPU	1 Module / CPU	1x8GB	1x64GB	with one CPU
Max. Memory per CPU	12 Modules / CPU	12x32GB	12x128GB	with one CPU
Max. Memory per System	24 Modules / System	768GB	3.072GB	if second CPU is configured

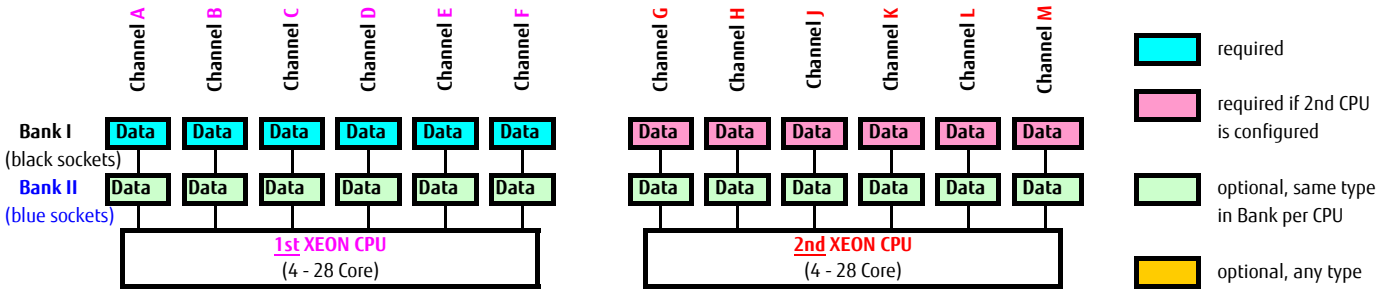
The memory sockets on the Systemboards are color coded

Bank I	black sockets	**Bank II**	blue sockets

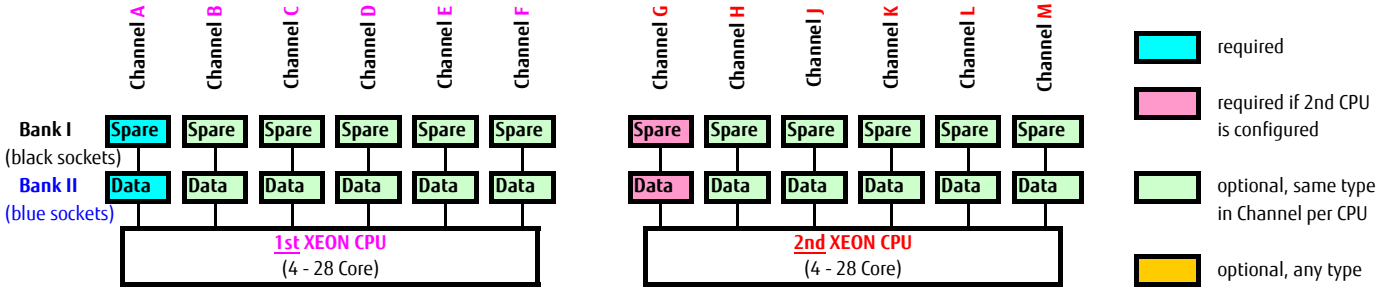
Independant channel mode



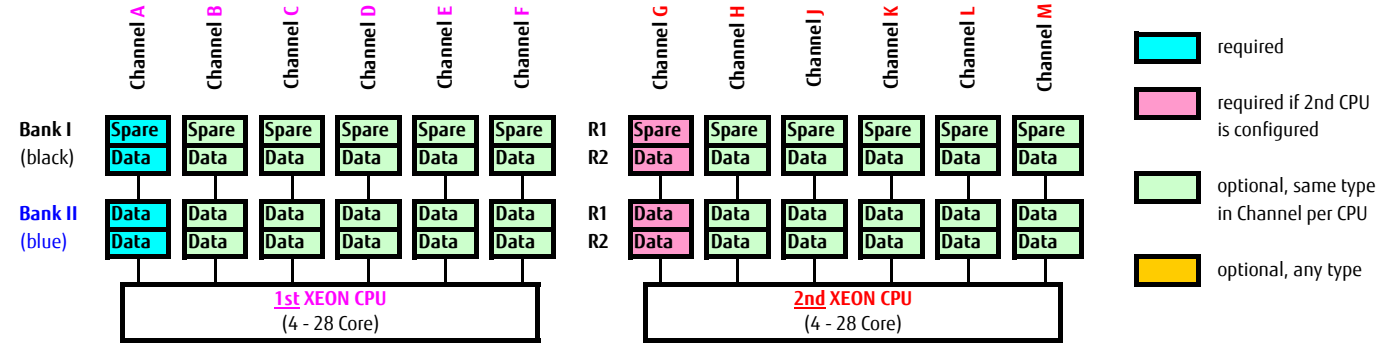
Performance Channel Mode



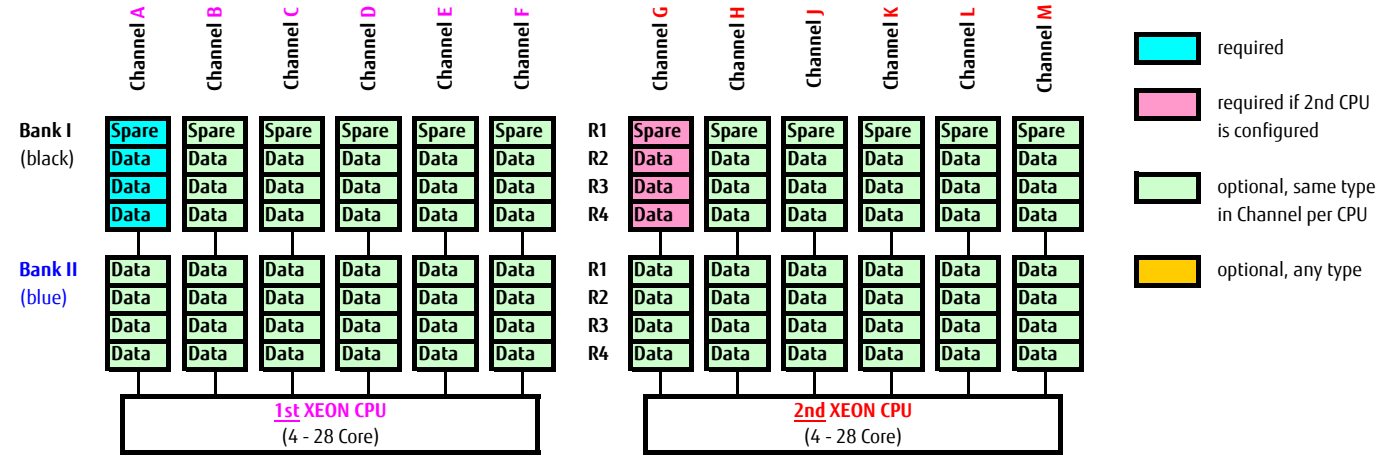
Rank sparing mode --- 1-Rank Memory modules (RDIMM)



Rank sparing mode --- 2-Rank Memory modules (RDIMM)

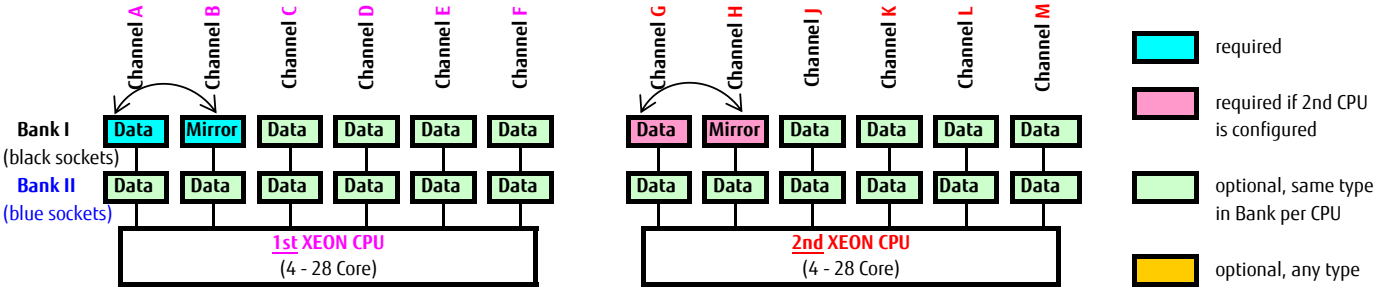


Rank sparing mode --- 4-Rank Memory modules (RDIMM 3DS)



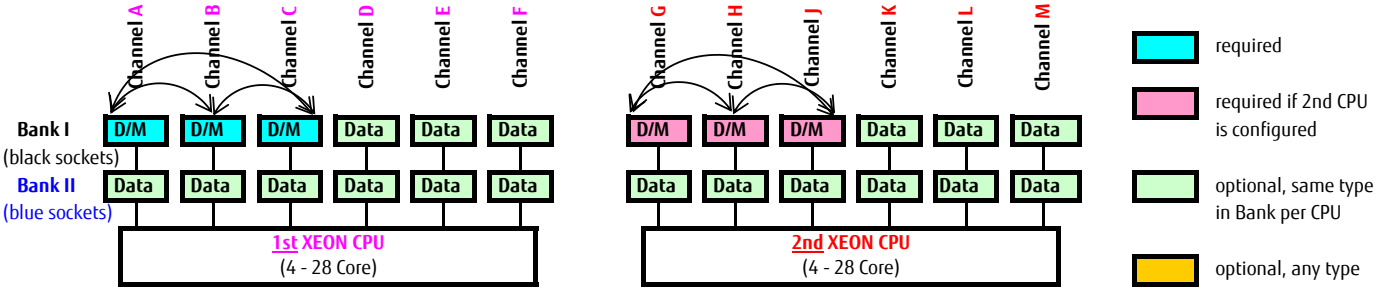
Rank Sparing Mode requires identical modules (same capacity and technology) within the same channel. The available memory for applications will vary depending on configuration. Please refer to the spreadsheet above "Effective Memory capacity with active Rank Sparing Mode". Population rule for Rank sparing mode is to achieve max. available memory, e.g. 4 DIMMs will be spread across two channels, each with 2DPC

Mirror Channel Mode (2 DIMMS per CPU)



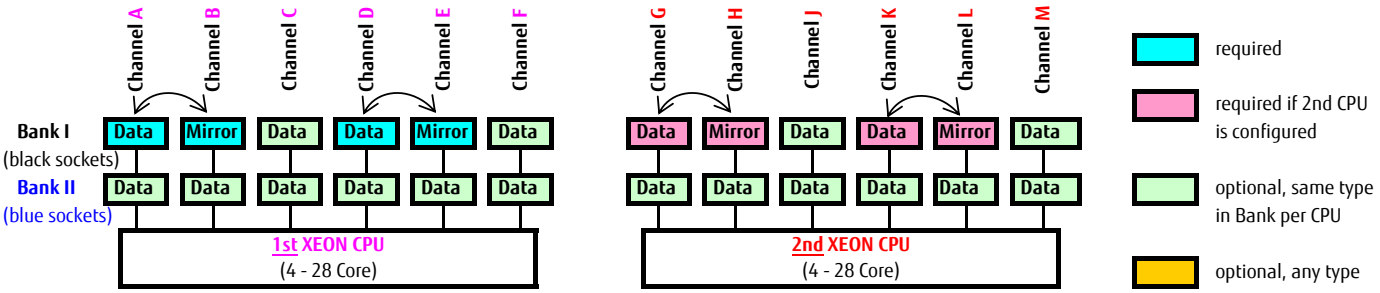
Mirrored Channel Mode (2 DIMMs per CPU) requires identical modules on channel A & B (1st CPU) or channel G & H (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 2 identical modules has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

Mirror Channel Mode (3 DIMMS per CPU)



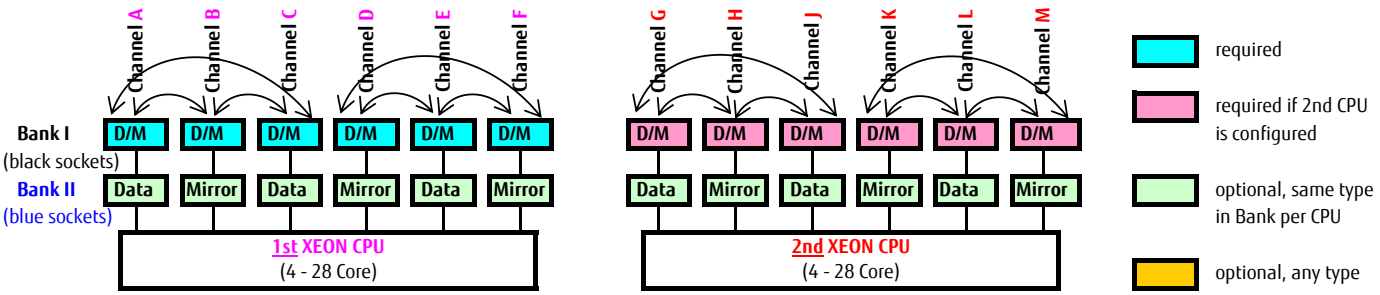
Mirrored Channel Mode (3 DIMMs per CPU) requires identical modules on channel A, B & C (1st CPU) or channel G, H & J (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 3 identical modules has to be ordered.

Mirror Channel Mode (4 DIMMS per CPU)



Mirrored Channel Mode (4 DIMMs per CPU) requires identical modules on channel A, B, D & E (1st CPU) or channel G, H, K & L (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.

Mirror Channel Mode (6 DIMMS per CPU)



Mirrored Channel Mode requires identical modules on channel A, B, C, D, E, F (1st CPU) or channel G, H, J, K, L and M (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 6 identical modules has to be ordered.

Chapter 5 - Graphics or FPGA options

D

S26361-F1420-E130 S26361-F1420-L130
Front VGA connector (15-pin)
Front VGA connector (15-pin) including cable and front connector
Not for base unit S26361-K1567-V112 or -V424
max. 1x per system

„on special release only!"

S26361-F2748-E638 S26361-F2748-L638
PGRA CP NVS 1GB VGA PCIe x16
NVIDIA NVS315 1024 MB PCIe-x16
Connectors: 1x LFH 59, cable kit for 2x DVI or 2x VGA cable kits included
Dual head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
occupies slot 3 (or 8)
max. 1x per system

The high end optional NVIDIA NVS315 graphic card offers dual head operation and full 3D video support.
The cables for either two times DVI-I or VGA connections are included.
Remote Video direction via iRMC must be disabled.

PY VGA card can be installed in slot 3 (CPU1) or slot 8 (CPU2)

S26361-F4066-E401 S26361-F4066-L401
PGRA CP NVIDIA Quadro P400
NVIDIA Quadro 2GB PCIe 3.0 x16
Connectors: 3x Mini-DP
no cable kits included cablse must be ordered seperately
Triple head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
occupies slot 3 (or 8)
Low profile bracket
max. 1x per system

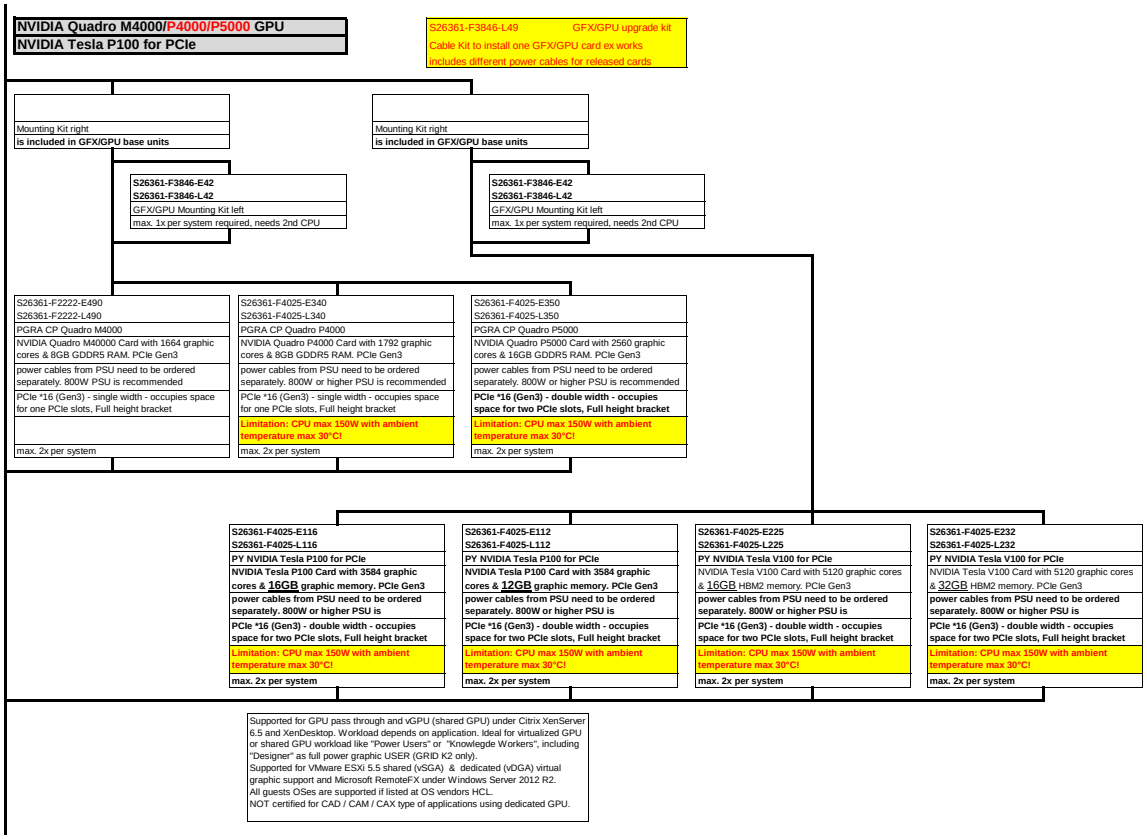
The high end optional NVIDIA Quadro P400 graphic card offers triple head operation and full 3D video support.
The cables kit is not included. It is necessary to order cable kit.
Remote Video direction via iRMC must be disabled.

PY VGA card can be installed in slot 3 (CPU1) or slot 8 (CPU2)

S26361-F4066-E11 S26361-F4066-L11
MiniDP-DP ADAPTER
max. 3x per card

S26361-F4066-E12 S26361-F4066-L12
DP-VGA ADAPTER
max. 3x per card

S26361-F4066-E13 S26361-F4066-L13
DP-DVI ADAPTER
max. 3x per card


NVIDIA Quadro M4000/P4000/P5000 GPU
NVIDIA Tesla P100 for PCIe
S26361-F3846-L49 GFX/GPU upgrade kit
Cable Kit to install one GFX/GPU card ex works
includes different power cables for released cards
Mounting Kit right
is included in GFX/GPU base units
Mounting Kit right
is included in GFX/GPU base units
S26361-F3846-E42
S26361-F3846-L42
GFX/GPU Mounting Kit left
max. 1x per system required, needs 2nd CPU
S26361-F3846-E42
S26361-F3846-L42
GFX/GPU Mounting Kit left
max. 1x per system required, needs 2nd CPU
S26361-F2222-E490
S26361-F2222-L490
PGRA CP Quadro M4000
NVIDIA Quadro M40000 Card with 1664 graphic cores & 8GB GDDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen3) - single width - occupies space for one PCIe slots, Full height bracket
max. 2x per system
S26361-F4025-E340
S26361-F4025-L340
PGRA CP Quadro P4000
NVIDIA Quadro P4000 Card with 1792 graphic cores & 8GB GDDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is recommended
PCIe *16 (Gen3) - single width - occupies space for one PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
S26361-F4025-E350
S26361-F4025-L350
PGRA CP Quadro P5000
NVIDIA Quadro P5000 Card with 2560 graphic cores & 16GB GDDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is recommended
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
S26361-F4025-E116
S26361-F4025-L116
PY NVIDIA Tesla P100 for PCIe
NVIDIA Tesla P100 Card with 3584 graphic cores & 16GB graphic memory. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
S26361-F4025-E112
S26361-F4025-L112
PY NVIDIA Tesla P100 for PCIe
NVIDIA Tesla P100 Card with 3584 graphic cores & 12GB graphic memory. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
S26361-F4025-E225
S26361-F4025-L225
PY NVIDIA Tesla V100 for PCIe
NVIDIA Tesla V100 Card with 5120 graphic cores & 16GB HBM2 memory. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
S26361-F4025-E232
S26361-F4025-L232
PY NVIDIA Tesla V100 for PCIe
NVIDIA Tesla V100 Card with 5120 graphic cores & 32GB HBM2 memory. PCIe Gen3
power cables from PSU need to be ordered separately. 800W or higher PSU is
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system
Supported for GPU pass through and vGPU (shared GPU) under Citrix XenServer 6.5 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.

NVIDIA TESLA M60/M10 GPU pass through / vGPU

S26361-F3846-L49 GFX/GPU upgrade kit
Cable Kit to install one GFX/GPU card ex works
includes different power cables for released cards

Mounting Kit right
is included in GFX/GPU base units

Mounting Kit right
is included in GFX/GPU base units

S26361-F3846-E42
S26361-F3846-L42
GFX/GPU Mounting Kit left
max. 1x per system required, needs 2nd CPU

S26361-F3846-E42
S26361-F3846-L42
GFX/GPU Mounting Kit left
max. 1x per system required, needs 2nd CPU

S26361-F2222-E964
S26361-F2222-L964
PGRA CP NVIDIA Tesla M60
NVIDIA Tesla M60 Card with 4096 graphic cores & 16GB GDDR5 RAM. PCIe Gen3
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
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system

S26361-F4025-E140
S26361-F4025-L140
PY NVIDIA Tesla P40
NVIDIA Tesla P40 Card with 3840 graphic cores & 24GB GDDR5 RAM. PCIe Gen3
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
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system

S26361-F2222-E910
S26361-F2222-L910
PGRA CP NVIDIA Tesla M10
NVIDIA Tesla M10 Card with 2560 graphic cores & 32GB GDDR5 RAM. PCIe Gen3
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
Limitation: CPU max 150W with ambient temperature max 30°C!
max. 2x per system

For GRID 3.0 to use the virtual graphic (GRID) funtionality, a SW activation key **and** support licence has to be purchased additionally. Please refer to additional licence oferings for Virtual Applications / Virtual PC / Virtual Workstation plus SUMs (Support, Updates & Maintenance subscriptions).
Not released as GPGPU card.

Cards personality is set to graphic card ex factory!

Perpetual Software license

S26361-F4024-S101
S26361-F4024-L101
GRID Virtual Applications (vApps) Perpetual License, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S201
S26361-F4024-L201
NVIDIA GRID Virtual PC (vPC) Perpetual License, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S301
S26361-F4024-L301
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Perpetual License, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.

this SKU was EOL

~~S2631-F4024-E801~~	S26361-F4024-S803 L26361-F4024-L803	S26361-F4024-S804 ~~L26361-F4024-L804~~	S26361-F4024-S805 ~~L26361-F4024-L805~~
~~NVIDIA GRID vApps Prod SUMS 1st year, 1CCU~~	NVIDIA GRID vApps Prod SUMS **3 year**, 1CCU	NVIDIA GRID vApps Prod SUMS **4 year**, 1CCU	NVIDIA GRID vApps Prod SUMS **5 year**, 1CCU
~~same volume with perpetual license~~	same volume with perpetual license	same volume with perpetual license	same volume with perpetual license

this SKU was EOL

~~S26361-F4024-E811~~	S26361-F4024-S813 L26361-F4024-L813	S26361-F4024-S814 ~~L26361-F4024-L814~~	S26361-F4024-S815 L26361-F4024-L815
~~NVIDIA GRID vPC Prod SUMS 1st year, 1 CCU~~	NVIDIA GRID vPC Prod SUMS **3 year**, 1 CCU	NVIDIA GRID vPC Prod SUMS **4 year**, 1 CCU	NVIDIA GRID vPC Prod SUMS **5 year**, 1 CCU
~~same volume with perpetual license~~	same volume with perpetual license	same volume with perpetual license	same volume with perpetual license

this SKU was EOL

~~S26361-F4024-EB21~~	S26361-F4024-S823 L26361-F4024-L823	S26361-F4024-S824 L26361-F4024-L824	S26361-F4024-S825 L26361-F4024-L825
~~NVIDIA GRID vWS Prod SUMS 1st year, 1 CCU~~	NVIDIA Quadro vDWS Prod SUMS **3 year**, 1 CCU	NVIDIA Quadro vDWS Prod SUMS **4 year**, 1 CCU	NVIDIA Quadro vDWS Prod SUMS **5 year**, 1 CCU
~~same volume with perpetual license~~	same volume with perpetual license	same volume with perpetual license	same volume with perpetual license

NVIDIA SUMS License (6 months) for renewal - Loose Delivery -

S26361-F4024-L956	S26361-F4024-L966	S26361-F4024-L976
NVIDIA GRID vApps Prod SUMS 6 months Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 6 months Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 6 months Renew, 1 CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (1 year) for renewal - Loose Delivery -

S26361-F4024-L901	S26361-F4024-L911	S26361-F4024-L921
NVIDIA GRID vApps Prod SUMS 1yr Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 1yr Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 1yr Renew, 1 CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (2 years) for renewal - Loose Delivery -

S26361-F4024-L952	S26361-F4024-L962	S26361-F4024-L972
NVIDIA GRID vApps Prod SUMS 2yrs Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 2yrs Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 2yrs Renew, 1 CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (3 years) for renewal - Loose Delivery -

S26361-F4024-L953	S26361-F4024-L963	S26361-F4024-L973
NVIDIA GRID vApps Prod SUMS 3yrs Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 3yrs Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 3yrs Renew, 1 CCU
NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (4 years) for renewal - Loose Delivery -

S26361-F4024-L954	S26361-F4024-L964	S26361-F4024-L974
NVIDIA GRID vApps Prod SUMS 4yrs Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 4yrs Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 4yrs Renew, 1 CCU
NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (5 years) for renewal - Loose Delivery -

S26361-F4024-L955	S26361-F4024-L965	S26361-F4024-L975
NVIDIA GRID vApps Prod SUMS 5yrs Renew, 1CCU	NVIDIA GRID vPC Prod SUMS 5yrs Renew, 1 CCU	NVIDIA GRID vWS Prod SUMS 5yrs Renew, 1 CCU
NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.	NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

Subscription Software license

S26361-F4024-S111
S26361-F4024-L111
GRID Virtual Applications (vApps) Subscription License, **1 year**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S113
S26361-F4024-L113
GRID Virtual Applications (vApps) Subscription License, **3 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S115
S26361-F4024-L115
GRID Virtual Applications (vApps) Subscription License, **5 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S211
S26361-F4024-L211
NVIDIA GRID Virtual PC (vPC) Subscription License, **1 year**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S213
S26361-F4024-L213
NVIDIA GRID Virtual PC (vPC) Subscription License, **3 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S215
S26361-F4024-L215
NVIDIA GRID Virtual PC (vPC) Subscription License, **5 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S311
S26361-F4024-L311
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **1 year**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S313
S26361-F4024-L313
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **3 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S315
S26361-F4024-L315
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **5 years**, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

This license model is NOT requirement for SUMS(Support license). It is including it.

NVIDIA Subscription License (6 months) for renewal - Loose Delivery -

S26361-F4024-L906	S26361-F4024-L916	S26361-F4024-L926
NVIDIA GRID vApps Subscription License 6 months Renew, 1CCU	NVIDIA GRID vPC Subscription License 6 months Renew, 1 CCU	NVIDIA GRID Quadro vDWS Subscription License 6 months Renew, 1
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (1year) for renewal - Loose Delivery -

S26361-F4024-L902	S26361-F4024-L912	S26361-F4024-L922
NVIDIA GRID vApps Subscription License 1yr Renew, 1CCU	NVIDIA GRID vPC Subscription License 1yr Renew, 1 CCU	NVIDIA GRID Quadro vDWS Subscription License 1yr Renew, 1 CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (2years) for renewal - Loose Delivery -

S26361-F4024-L900	S26361-F4024-L910	S26361-F4024-L920
NVIDIA GRID vApps Subscription License 2yrs Renew, 1CCU	NVIDIA GRID vPC Subscription License 2yrs Renew, 1 CCU	NVIDIA GRID Quadro vDWS Subscription License 2yrs Renew, 1 CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (3years) for renewal - Loose Delivery -

S26361-F4024-L903	S26361-F4024-L913	S26361-F4024-L923
NVIDIA GRID vApps Subscription License 3yrs Renew, 1CCU	NVIDIA GRID vPC Subscription License 3yrs Renew, 1 CCU	NVIDIA GRID Quadro vDWS Subscription License 3yrs Renew, 1 CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (5years) for renewal - Loose Delivery -

S26361-F4024-L905	S26361-F4024-L915	S26361-F4024-L925
NVIDIA GRID vApps Subscription License 5yrs Renew, 1CCU	NVIDIA GRID vPC Subscription License 5yrs Renew, 1 CCU	NVIDIA GRID Quadro vDWS Subscription License 5yrs Renew, 1 CCU
NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.	NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.

Education Software license

Perpetual license

S26361-F4024-S401
S26361-F4024-L401
NVIDIA GRID EDU Perpetual License, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

EDU SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.

this SKU was EOL

~~S26361-F4024-E831~~	S26361-F4024-S833	S26361-F4024-S834	S26361-F4024-S835
	S26361-F4024-L833	S26361-F4024-L834	S26361-F4024-L835
~~NVIDIA GRID EDU SUMS 1st year, 1 CCU~~	NVIDIA GRID EDU SUMS 3 year, 1 CCU	NVIDIA GRID EDU SUMS 4 year, 1 CCU	NVIDIA GRID EDU SUMS 5 year, 1 CCU
~~same volume with EDU perpetual license~~	same volume with EDU perpetual license	same volume with EDU perpetual license	same volume with EDU perpetual license

Subscription license

S26361-F4024-S411
S26361-F4024-L411
NVIDIA GRID EDU Subscription License, 1 year, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

S26361-F4024-S413
S26361-F4024-L413
NVIDIA GRID EDU Subscription License, 3 year, 1 CCU
24x per P40 card
32x per M60 card
64x per M10 card

NVIDIA EDU SUMS License (6 months) for renewal - Loose Delivery -

S26361-F4024-L930
NVIDIA GRID EDU SUMS 6 months Renew, 1CCU
NVIDIA EDU SUMS License (6 months) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA EDU SUMS License (1year) for renewal - Loose Delivery -

S26361-F4024-L931
NVIDIA GRID EDU SUMS 1yr Renew, 1CCU
NVIDIA EDU SUMS License (1year) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA EDU SUMS License (2 years) for renewal - Loose Delivery -

S26361-F4024-L932
NVIDIA GRID EDU SUMS 2yrs Renew, 1CCU
NVIDIA EDU SUMS License (2 years) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA EDU SUMS License (3 years) for renewal - Loose Delivery -

S26361-F4024-L933
NVIDIA GRID EDU SUMS 3yrs Renew, 1CCU
NVIDIA EDU SUMS License (3 years) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA EDU SUMS License (4 years) for renewal - Loose Delivery -

S26361-F4024-L934
NVIDIA GRID EDU SUMS 4yrs Renew, 1CCU
NVIDIA EDU SUMS License (4 years) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA EDU SUMS License (5 years) for renewal - Loose Delivery -

S26361-F4024-L935
NVIDIA GRID EDU SUMS 5yrs Renew, 1CCU
NVIDIA EDU SUMS License (5 years) for renewal. It needs if you need to continue EDU SUMs.

NVIDIA Subscription License (6 months) for renewal - Loose Delivery -

S26361-F4024-L946
NVIDIA GRID EDU Subscription License 6 months Renew, 1CCU
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (1year) for renewal - Loose Delivery -

S26361-F4024-L941
NVIDIA GRID EDU Subscription License 1yr Renew, 1CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (2years) for renewal - Loose Delivery -

S26361-F4024-L942
NVIDIA GRID EDU Subscription License 2yrs Renew, 1CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (3years) for renewal - Loose Delivery -

S26361-F4024-L943
NVIDIA GRID EDU Subscription License 3yrs Renew, 1CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

Intel PAC A10 FPGA Card

Will be available beginning of November 2018

Mounting Kit right
is included in GFX/GPU base units

S26361-F3846-E42
S26361-F3846-L42
GFX/GPU Mounting Kit left
max. 1x per system required, needs 2nd CPU

S26361-F4067-E1
S26361-F4067-L1
Intel PAC Arria 10 GX FPGA
Intel Programmable Acceleration Card with Arria 10 GX FPGA.
power cables from PSU need to be ordered separately. 800W or higher PSU is recommended
INTEL PAC W/A10 FPGA, PCIe-x16(Mechanical) FPGA card, 1x SFP+ w/ 4x 10GbE or 40GbE support
max. 2x per system

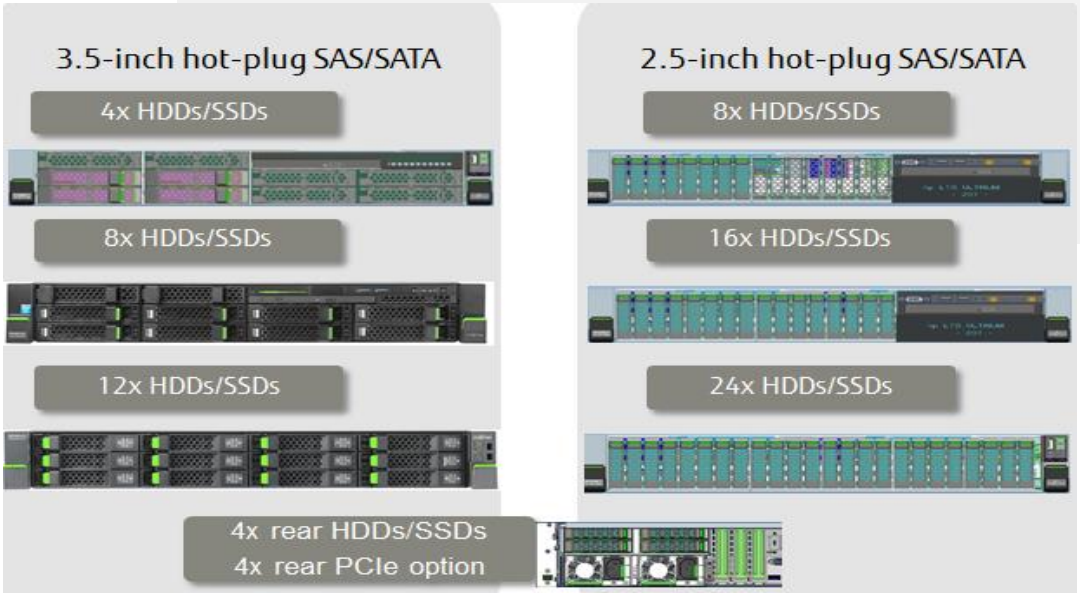
E

S26361-F3846-L49 GFX/GPU upgrade kit
Cable Kit to install one GFX/GPU card ex works
includes different power cables for released cards

Chapter 6 - Drive cage and PCIe riser options

F

Six standard basic units provide the basic 3.5" and 2.5" HDD/SSD configurations as shown below.
E.g. front PCIe SSD SFF configurations are offered as use case specific basic unit for hybrid flash.
The rear HDD/SSD cage for up to 4x 2.5" devices is offered as an option for the storage units with 12x 3.5" or 24x 2.5" HDD/SSD.



Available Upgrade kit for configuration 4x 3.5" HDD:	
Upgrade kit to 8x 3.5" HDD	S26361-F2495-L108

Upgrade to 12x 3.5" HDD is not possible!

Available Upgrade kits for configuration 8x 2.5" HDD (V408):		
Upgrade kit to 16x 2.5" HDD	S26361-F2495-L445	
Upgrade kit to 2x 8x 2.5" HDD	S26361-F2495-L416	new!
Upgrade kit to 24x 2.5" HDD	S26361-F2495-L424	
Upgrade kit 4x PCIe-SSD	S26361-F2495-L284	new!

Available Upgrade kit for configuration 16x 2.5" HDD:	
Upgrade kit to 24x 2.5" HDD	S26361-F2495-L434

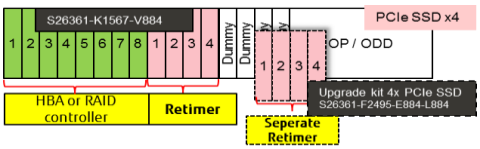
Modular HDD/SSD/PCIe options for special base units

For Hybrid Flash basic unit V884 only:

S26361-F2495-E884 Upgrade 4x to 8x PCIe SSD SFF

S26361-F2495-L884 Later upgrade 4x to 8x PCIe SSD SFF

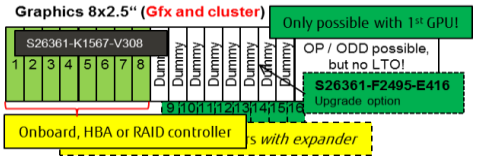
Note: Separate **PCIe Retimer** needed!



For basic unit V408 and V308 only:

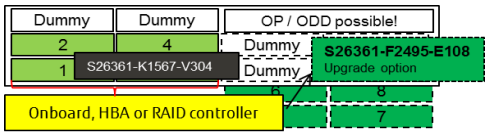
S26361-F2495-E416 Option upgrade 8x HDD/SSD SFF

Note: **Limits for one GFX/GPU card!**



For basic unit V104 and V304 only:

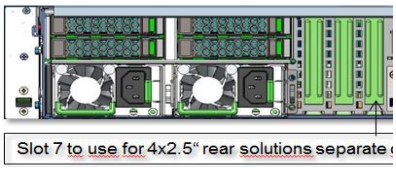
S26361-F2495-E108 Option upgrade 4x HDD/SSD LFF

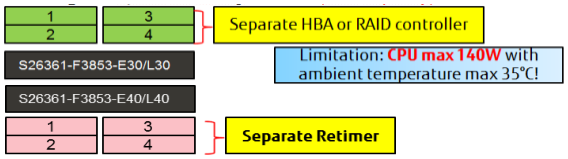


max. 1x per system

Includes all necessary bezels, cages, backplanes and cables

rear 2.5" SAS/SATA HDD/SSD SFF
rear 2.5" PCIe-SSD SFF





Modular REAR SFF HDD/SSD/PCIe options are possible for
basic unit V112, V116, V424, V428 as well as V884
S26361-F3853-E30 Option REAR SAS/SATA HDD/SSD
S26361-F3853-E40 Option REAR PCIe SSD SFF
Available Upgrade kits for this configuration option:
S26361-F3853-L30 Upgrade REAR SAS/SATA HDD/SSD
S26361-F3853-L40 Upgrade REAR PCIe SSD SFF
Provides 4 rear hot-plug bays for SAS/SATA HDD/SSD SFF or PCIe-SSD SFF devices
Note: **Separate SAS-Controller** or **PCIe Retimer** needed which requires a 2nd CPU if 8 channel ctrl is used!
PRAID EP540i 16 channel **(in V116 or V428)** doesn´t require this!
Note: Consumes space for PCIe riser x8 and x16 left
max. 1x per system
Includes all necessary bezels, cages, backplanes and cables

PCIe riser card options

S26361-F3846-E31
PCIe riser x8 and x16 right
PCIe 3.0 x8 and x16 provides two full height slots
max. 1x per system

S26361-F3846-E32
PCIe riser x8 and x16 left
PCIe 3.0 x8 and x16 provides two full height slots
max. 1x per system

Every PCIe riser card option consumes white PCIe x16 low profile slot each.
It provides one PCIe x8 and x16 full height slots instead (Slot no. 4 and 5 or no. 10 and 11).
So, max. four PCIe full height slots plus one PCIe x16 and three PCIe x8 low profile slots are availble
Please note that some PCIe cards have different order numbers depending on full height slots or low profile slots!
And left or right side PCIe riser card option is different!

left right

Detailed PCIe slot description:

Slot 11 PCIe-3 x8, max. 270mm @ CPU2	full-height slot
Slot 10 PCIe-3 x16, max. 270mm @ CPU2	full-height slot
Slot 9 PCIe-3 x24, max. 198mm @ CPU2	low-profile slot
Possibility to install PCIe riser with x8 and x16 slot or x16 double width	
Slot 8 PCIe-3 x16, max. 198mm @ CPU2	low-profile slot
Slot 7 PCIe-3 x8, max. 198mm @ CPU2	low-profile slot
Preferred slot for 3rd modular RAID-Controller	
Slot 5 PCIe-3 x8, max. 270mm @ CPU1	full-height slot
Slot 4 PCIe-3 x16, max. 270mm @ CPU1	full-height slot
Slot 3 PCIe-3 x24, max. 198mm @ CPU1	low-profile slot
Possibility to install PCIe riser with x8 and x16 slot or x16 double width	
Slot 2 PCIe-3 x8, max. 198mm @ CPU1	low-profile slot
Preferred slot for 1st modular RAID-Controller	
Slot 1 PCIe-3 x8, max. 198mm @ CPU1	low-profile slot
Preferred slot for 2nd modular RAID-Controller	

G

Chapter 7 - SAS / RAID Controller

F

for combination and max number of controllers please see folder base / chassis

onboard SATA controller with SW-RAID

onboard controller for SATA HDD or SSD drives					
4 ports 3, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1	1x	**onboard, included**

intenal HBA and RAID controller, no 2nd Level cache

internal drive RAID / HBA controllers for SAS, SATA HDD or SSD drives					
PRAID CP400i RAID Contr.	No Cache	RAID 0, 1, 1E, 10, 5, 50	3x	**S26361-F3842-E1**	**S26361-F3842-L501**
PSAS CP400i HBA SAS Contr.	No Cache	HBA + RAID 0, 1	3x	**S26361-F3842-E2**	**S26361-F3842-L502**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander (PRAID CP400i: no expander support) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008					

internal RAID controller with 2nd Level cache 1GB, 2GB

internal drive RAID / SAS, SATA controllers with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options					
PRAID EP400i RAID Contr.	1GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F5243-E11**	**S26361-F5243-L11**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ®Broadcom: SSD-cache-based HDD accelleration			3x	**S26361-F5243-E670**	**S26361-F5243-L670**
optional Transportable Flash module (TFM) and Flash Backup Unit (FBU), both components required					
TFM module for 1GB Cache	NV-RAM & FBU control logic		3x	**S26361-F5243-E100**	**S26361-F5243-L100**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**

PRAID EP420i RAID Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F5243-E12**	**S26361-F5243-L12**
PRAID EP420i for SafeStore R. Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F5243-E14***	**S26361-F5243-L14***
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ®Broadcom: SSD-cache-based HDD accelleration			3x	**S26361-F5243-E670**	**S26361-F5243-L670**
optional TFM module and Flash Backup Unit (FBU), both components required					
TFM module for 2GB Cache	NV-RAM & FBU control logic		3x	**S26361-F5243-E200**	**S26361-F5243-L200**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**

internal NVMe, SAS, SATA RAID controller with 2nd Level cache 2GB, 4GB, 8GB

NVMe support for all EP5xxi tbd

internal drive RAID / SAS controllers for NVMe and SAS, SATA HDD or SSD drives					
PRAID EP520i RAID Contr. LP	2GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F4042-E202**	**S26361-F4042-L502**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander **(NVME support for EP520i on special release for this controller in this system)** includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
PRAID EP540i RAID Contr. LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F4042-E204**	**S26361-F4042-L504**
PRAID EP580i RAID Contr. LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	3x	**S26361-F4042-E208**	**S26361-F4042-L508**
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3516, supports up to 16 devices without expander or **16 ports** 8Gb/s NVMe PCIe, supports up to 4 x4 NVMe devices, **requires special release and order number S26361-F3776-E900 NVMe support** includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

maximum number of internal RAID + HBA (See also pictures on folder base / HDD cage):
standard config: max. 1
for -V216 only: max. 2x all HBA and RAID controller (mirrored mode)
for -V238 only: max. 3x all HBA and RAID controller(tripple mode) but max. 2x EP540/80i
for -V884 only: max. 4x = max. 3x NVMe by PRAID EP540/80i + additional PRAID EP520i or PRAID EP540i/80i for SAS/SATA

FBU cannot be combined with Advanced Thermal design.
up to **2x FBU** can be integrated per System

Expander configurations: Use PRAID EPxxxi for optimal performance,
PRAID CP400i is not released for expander configurations

Advanced SW options:
simultanous operation of SafeStore or CacheCade + FastPath or is supported,
simultanous operation of Safestore + CacheCade is not supported
* It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality

G

external SAS controller

**up to 4 controller possible by special release

HBA controller for ext. drives SAS, SATA HDD or SSD drives					
PSAS CP400e HBA SAS Contr. LP**	No Cache	HBA, no RAID	2x	**S26361-F3845-E201**	**S26361-F3845-L501**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008					

external SAS, RAID controller with 2nd Level cache 2GB

RAID / SAS, SATA controllers for external drives with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options					
PRAID EP420e RAID Contr. LP**	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F3847-E202**	**S26361-F3847-L502**
PRAID EP420e for SafeStore LP**	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F3847-E204**	**S26361-F3847-L504**
PRAID EP420e RAID Contr. FH**	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F3847-E2**	**S26361-F3847-L504**
PRAID EP420e for SafeStore FH**	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F3847-E4**	**S26361-F3847-L504**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ®Broadcom: SSD-cache-based HDD accelleration*			2x	**S26361-F5243-E670**	**S26361-F5243-L670**
optional TFM module and Flash Backup Unit (FBU), both components required					
TFM module for 2GB Cache	NV-RAM & FBU control logic		2x	**S26361-F5243-E200**	**S26361-F5243-L200**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**

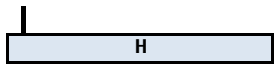
external SAS, RAID controller with 2nd Level cache 4GB

Available on special release

RAID / SAS, SATA controllers for external drives with Cache and opt. Flash Backup Unit					
PRAID EP540e RAID Contr. LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F4063-E204**	**S26361-F4063-L504**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) includes Fastpath and SafeStore Advanced SW-Licence requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

internal controllers for PCIe SSD SFF (2,5" NVMe PCIe) drives, no HW-RAID

retimer controller for internal 2,5" NVMe SSD PCIe SSD SFF (2,5" NVMe PCIe)					
PPCI CP x16 retimer	No Cache	No HW-RAID	3x	**S26361-F4048-E201**	**S26361-F4048-L501**
No HW RAID, No Cache, simple route-through incl. Signal enhancement; device management by INTEL VMD					
divides PCIe3.0 x16 lanes into 4x x4 lanes , supports up to 4x 2.5" PCIe-SSD SFF					
requires 1x LP PCIe 3.0 x16 (int.) slot					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Chapter 8 - ODD optical disk drives

The base units with 12x 3.5" or 24x 2.5" HDD do not offer 1x 9.5mm optical drive bay!

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Config with 1x 9.5mm bay

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

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Chapter 9 - backup drives

RX2540 M4 offers 1.6" bay for accessible drive for basic units with 8x or 16x 2.5" HDD only!

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Config with min. 1x free 1.6" bay

S26361-F3627-E1 **S26361-F3627-L1**
LTO 5 tape drive (w/o tape)
LTO5, 1.5TB, 140MB/s, SAS 2.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

S26361-F3787-E1 **S26361-F3787-L1**
LTO 6 tape drive (w/o tape)
LTO6, 2.5TB, 160MB/s, SAS 2.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

S26361-F5606-E1 **S26361-F5606-L1**
LTO 7 tape drive (w/o tape)
LTO7, 6TB, 300MB/s, SAS 2.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

S26361-F3842-E20 **S26361-F3842-L502**
PSAS CP400i SAS Controller
based on LSI SAS3008
requires 1x PCIe 3.0 x8
max. 1x per system for LTO drives

S26361-F3750-E4 **S26361-F3750-L4**
RDX Drive cage (w/o cartriges)
RDX Drive cage for various RDX cartridges (cartr. not included)
connected to USB3.0 onboard
1.6 * 5.25", black bezel
max. 1x per system

Cartridge	Order Code
RDX Cartridge 500GB	**S26361-F3857-L500**
RDX Cartridge 1TB	**S26361-F3857-L600**
RDX Cartridge 2TB	**S26361-F3857-L700**
RDX Cartridge 3TB	**S26361-F3857-L800**

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Chapter 10 - storage drives

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: 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 12G .
Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.

Warranty:
SSD and SATA DOM 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" (SFF) SAS and SATA SSD

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5710-E400**	**S26361-F5710-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5710-E800**	**S26361-F5710-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5710-E160**	**S26361-F5710-L160**
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED as soon as available	**S26361-F5711-E400**	**S26361-F5711-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED as soon as available	**S26361-F5711-E800**	**S26361-F5711-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED as soon as available	**S26361-F5711-E160**	**S26361-F5711-L160**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5608-E400**	**S26361-F5608-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5608-E800**	**S26361-F5608-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5608-E160**	**S26361-F5608-L160**
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**S26361-F5611-E400**	**S26361-F5611-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**S26361-F5611-E800**	**S26361-F5611-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**S26361-F5611-E160**	**S26361-F5611-L160**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5713-E400**	**S26361-F5713-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5713-E800**	**S26361-F5713-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5713-E160**	**S26361-F5713-L160**
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5713-E320**	**S26361-F5713-L320**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5666-E400**	**S26361-F5666-L400**
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5666-E800**	**S26361-F5666-L800**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5666-E160**	**S26361-F5666-L160**
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	2.3		**S26361-F5666-E320**	**S26361-F5666-L320**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
480GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5715-E480**	**S26361-F5715-L480**
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5715-E960**	**S26361-F5715-L960**
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5715-E192**	**S26361-F5715-L192**
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5715-E384**	**S26361-F5715-L384**
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5715-E768**	**S26361-F5715-L768**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
480GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5670-E480**	**S26361-F5670-L480**
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5670-E960**	**S26361-F5670-L960**
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5670-E192**	**S26361-F5670-L192**
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5670-E384**	**S26361-F5670-L384**
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	0.9		**S26361-F5670-E768**	**S26361-F5670-L768**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.6		**S26361-F5675-E240**	**S26361-F5675-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.6		**S26361-F5675-E480**	**S26361-F5675-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**S26361-F5588-E960**	**S26361-F5588-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**S26361-F5588-E192**	**S26361-F5588-L192**
3.84TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	3.6	as soon as available	**S26361-F5588-E384**	**S26361-F5588-L384**

max. 28x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use S4600 (SFF) Enterprise with hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.1		**S26361-F5694-E240**	**S26361-F5694-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.3		**S26361-F5694-E480**	**S26361-F5694-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5694-E960**	**S26361-F5694-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5694-E192**	**S26361-F5694-L192**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E240**	**S26361-F5632-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E480**	**S26361-F5632-L480**
800GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E800**	**S26361-F5632-L800**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E960**	**S26361-F5632-L960**
1.2TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E120**	**S26361-F5632-L120**
1.6TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5632-E160**	**S26361-F5632-L160**

max. 28x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.4		**S26361-F5701-E240**	**S26361-F5701-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5701-E480**	**S26361-F5701-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5701-E960**	**S26361-F5701-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5701-E192**	**S26361-F5701-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0		**S26361-F5701-E384**	**S26361-F5701-L384**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.5		**S26361-F5701-E768**	**S26361-F5701-L768**
max. 28x - depending on base unit & configuration							

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2.5" (SFF) Hard drives

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E530**	**S26361-F5531-L530**
450GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E545**	**S26361-F5531-L545**
600GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E560**	**S26361-F5531-L560**
900GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E590**	**S26361-F5531-L590**

max. 28x - depending on base unit & configuration

HDD SAS 2.5" 10K 512n (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5550-E130**	**S26361-F5550-L130**
600GB	10 000	SAS 12Gb/s	512n		**S26361-F5550-E160**	**S26361-F5550-L160**
900GB	10 000	SAS 12Gb/s	512n		**S26361-F5550-E190**	**S26361-F5550-L190**
1.2TB	10 000	SAS 12Gb/s	512n		**S26361-F5550-E112**	**S26361-F5550-L112**
300GB	10 000	SAS 12Gb/s	512n	SED	**S26361-F5581-E130**	**S26361-F5581-L130**
600GB	10 000	SAS 12Gb/s	512n	SED	**S26361-F5581-E160**	**S26361-F5581-L160**
1.2TB	10 000	SAS 12Gb/s	512n	SED	**S26361-F5581-E112**	**S26361-F5581-L112**

max. 28x - depending on base unit & configuration

HDD SAS 2.5" 10K 512e (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
600GB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E160**	**S26361-F5543-L160**
900GB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E190**	**S26361-F5543-L190**
1.2TB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E112**	**S26361-F5543-L112**
1.8TB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E118**	**S26361-F5543-L118**
2.4TB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E124**	**S26361-F5543-L124**
1.8TB	10 000	SAS 12Gb/s	512e	SED	**S26361-F5582-E118**	**S26361-F5582-L118**
2.4TB	10 000	SAS 12Gb/s	512e	SED	**S26361-F5582-E124**	**S26361-F5582-L124**

max. 28x - depending on base unit & configuration

HDD SAS 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SAS 12Gb/s	512n		**S26361-F5600-E100**	**S26361-F5600-L100**
2TB	7 200	SAS 12Gb/s	512n		**S26361-F5600-E200**	**S26361-F5600-L200**

max. 28x - depending on base unit & configuration

HDD SAS 2.5" 7.2K 512e (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SAS 12Gb/s	512e		**S26361-F5573-E100**	**S26361-F5573-L100**
2TB	7 200	SAS 12Gb/s	512e		**S26361-F5573-E200**	**S26361-F5573-L200**

max. 28x - depending on base unit & configuration

HDD SATA 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SATA 6Gb/s	512n		**S26361-F3956-E100**	**S26361-F3956-L100**
2TB	7 200	SATA 6Gb/s	512n		**S26361-F3956-E200**	**S26361-F3956-L200**

max. 28x - depending on base unit & configuration

The HDDs not released with PRAID EP5x0i (S26361-F4042-E202/E204/E208)

HDD SATA 2.5" 7.2K 512e (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SATA 6Gb/s	512e		**S26361-F3907-E100**	**S26361-F3907-L100**
2TB	7 200	SATA 6Gb/s	512e		**S26361-F3907-E200**	**S26361-F3907-L200**

max. 28x - depending on base unit & configuration

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3.5" (LFF) SAS and SATA SSD

SSD SAS 3.5" Write Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5709-E400**	**S26361-F5709-L400**
800GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5709-E800**	**S26361-F5709-L800**
1.6TB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10	as soon as available	**S26361-F5709-E160**	**S26361-F5709-L160**

max. 12x - depending on base unit & configuration

SSD SAS 3.5" Write Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5607-E400**	**S26361-F5607-L400**
800GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5607-E800**	**S26361-F5607-L800**
1.6TB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		**S26361-F5607-E160**	**S26361-F5607-L160**

max. 12x - depending on base unit & configuration

SSD SAS 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5712-E400**	**S26361-F5712-L400**
800GB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5712-E800**	**S26361-F5712-L800**
1.6TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5712-E160**	**S26361-F5712-L160**
3.2TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3	as soon as available	**S26361-F5712-E320**	**S26361-F5712-L320**

max. 12x - depending on base unit & configuration

SSD SAS 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5662-E400**	**S26361-F5662-L400**
800GB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5662-E800**	**S26361-F5662-L800**
1.6TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		**S26361-F5662-E160**	**S26361-F5662-L160**
3.2TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	2.3		**S26361-F5662-E320**	**S26361-F5662-L320**

max. 12x - depending on base unit & configuration

SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
480GB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5714-E480**	**S26361-F5714-L480**
960GB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5714-E960**	**S26361-F5714-L960**
1.92TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5714-E192**	**S26361-F5714-L192**
3.84TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5714-E384**	**S26361-F5714-L384**
7.68TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1	as soon as available	**S26361-F5714-E768**	**S26361-F5714-L768**

max. 12x - depending on base unit & configuration

SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
480GB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5668-E480**	**S26361-F5668-L480**
960GB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5668-E960**	**S26361-F5668-L960**
1.92TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5668-E192**	**S26361-F5668-L192**
3.84TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		**S26361-F5668-E384**	**S26361-F5668-L384**
7.68TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	0.9		**S26361-F5668-E768**	**S26361-F5668-L768**

max. 12x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6		**S26361-F5673-E240**	**S26361-F5673-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6		**S26361-F5673-E480**	**S26361-F5673-L480**
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		**S26361-F5589-E960**	**S26361-F5589-L960**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		**S26361-F5589-E192**	**S26361-F5589-L192**
3.84TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	3.6	as soon as available	**S26361-F5589-E384**	**S26361-F5589-L384**

max. 12x - depending on base unit & configuration

SSD SATA 3.5" Mixed Use S4600 (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.1		**S26361-F5692-E240**	**S26361-F5692-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.3		**S26361-F5692-E480**	**S26361-F5692-L480**
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5692-E960**	**S26361-F5692-L960**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5692-E192**	**S26361-F5692-L192**

max. 12x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E240**	**S26361-F5630-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E480**	**S26361-F5630-L480**
800GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E800**	**S26361-F5630-L800**
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E960**	**S26361-F5630-L960**
1.2TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E120**	**S26361-F5630-L120**
1.6TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E160**	**S26361-F5630-L160**

max. 12x - depending on base unit & configuration

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.4		**S26361-F5700-E240**	**S26361-F5700-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5700-E480**	**S26361-F5700-L480**
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5700-E960**	**S26361-F5700-L960**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9		**S26361-F5700-E192**	**S26361-F5700-L192**
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		**S26361-F5700-E384**	**S26361-F5700-L384**
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.5		**S26361-F5700-E768**	**S26361-F5700-L768**

max. 12x - depending on base unit & configuration

3.5" (LFF) Hard drives

HDD SAS 3.5" 15K (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	15 000	SAS 12Gb/s	512n		**S26361-F5532-E530**	**S26361-F5532-L530**
450GB	15 000	SAS 12Gb/s	512n		**S26361-F5532-E545**	**S26361-F5532-L545**
600GB	15 000	SAS 12Gb/s	512n		**S26361-F5532-E560**	**S26361-F5532-L560**
900GB	15 000	SAS 12Gb/s	512n		**S26361-F5532-E590**	**S26361-F5532-L590**

max. 12x - depending on base unit & configuration

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HDD SAS 3.5" 10K 512n (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5568-E130**	**S26361-F5568-L130**
600GB	10 000	SAS 12Gb/s	512n		**S26361-F5568-E160**	**S26361-F5568-L160**
1.2TB	10 000	SAS 12Gb/s	512n		**S26361-F5568-E112**	**S26361-F5568-L112**

max. 12x - depending on base unit & configuration

HDD SAS 3.5" 10K 512e (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1.8TB	10 000	SAS 12Gb/s	512e		**S26361-F5569-E118**	**S26361-F5569-L118**
2.4TB	10 000	SAS 12Gb/s	512e		**S26361-F5569-E124**	**S26361-F5569-L124**

max. 12x - depending on base unit & configuration

HDD SAS 3.5" 7.2K 512n (LFF) Enterprise Business critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SAS 12Gb/s	512n		**S26361-F5626-E100**	**S26361-F5626-L100**
2TB	7 200	SAS 12Gb/s	512n		**S26361-F5626-E200**	**S26361-F5626-L200**
4TB	7 200	SAS 12Gb/s	512n		**S26361-F5626-E400**	**S26361-F5626-L400**

max. 12x - depending on base unit & configuration

HDD SAS 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
2TB	7 200	SAS 12Gb/s	512e		**S26361-F5635-E200**	**S26361-F5635-L200**
4TB	7 200	SAS 12Gb/s	512e		**S26361-F5635-E400**	**S26361-F5635-L400**
6TB	7 200	SAS 12Gb/s	512e		**S26361-F5635-E600**	**S26361-F5635-L600**
8TB	7 200	SAS 12Gb/s	512e	as soon as available	**S26361-F5635-E800**	**S26361-F5635-L800**
8TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E800**	**S26361-F5571-L800**
10TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E100**	**S26361-F5571-L100**
12TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E120**	**S26361-F5571-L120**
6TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5584-E600**	**S26361-F5584-L600**
10TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5624-E100**	**S26361-F5624-L100**
12TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5624-E120**	**S26361-F5624-L120**

max. 12x - depending on base unit & configuration

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E100**	**S26361-F5636-L100**
2TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E200**	**S26361-F5636-L200**
4TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E400**	**S26361-F5636-L400**

max. 12x - depending on base unit & configuration

HDD SATA 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
6TB	7 200	SATA 6Gb/s	512e		**S26361-F5638-E600**	**S26361-F5638-L600**
8TB	7 200	SATA 6Gb/s	512e	as soon as available	**S26361-F5638-E800**	**S26361-F5638-L800**
8TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E800**	**S26361-F3904-L800**
10TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E100**	**S26361-F3904-L100**
12TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E120**	**S26361-F3904-L120**

max. 12x - depending on base unit & configuration

M.2 SATA SSD

SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi

Capacity	*Formfactor*	*Interface*		*Category*		*order code E-part*	*order code L-part*
150GB	M.2	SATA 6Gb/s		Boot		**S26361-F5655-E150**	**S26361-F5655-L150**
240GB	M.2	SATA 6Gb/s		Boot		**S26361-F5707-E240**	**S26361-F5707-L240**

M.2 drive is designed for use as a VMware ESXi boot drive.
2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

M.2 drive for VMware ESXi and for other OSs cannot be mixed

SSD SATA M.2 drive for booting, non hot-plug

Capacity	*Formfactor*	*Interface*	*DWPD*	*Category*		*order code E-part*	*order code L-part*
150GB	M.2	SATA 6Gb/s	1.5	Boot		**S26361-F5656-E150**	**S26361-F5656-L150**
240GB	M.2	SATA 6Gb/s	1.4	Boot		**S26361-F5706-E240**	**S26361-F5706-L240**
480GB	M.2	SATA 6Gb/s	1.4	Boot		**S26361-F5706-E480**	**S26361-F5706-L480**

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.
2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
max. 2x per Server; connector located on Motherboard (please see folder "description"). VMware is not supported.

Dual M.2

Dual microSD, PDUAL AP200 and M.2 drive cannot be mixed

PDUAL AP200, dual M.2 for booting, non hot-plug

Capacity	*Formfactor*	*Interface*		*Category*		*order code E-part*	*order code L-part*
n/a	AIC	PCIe		Boot	LP	**S26361-F4064-E201**	**S26361-F4064-L501**

PDUAL AP200 is a carrier card for 2x M.2 SATA modules, which is connected to the controller PSAS CP400i and offers RAID1 with 2x M.2 modules.
"PDUAL AP200 + 2x M.2 modules + PSAS CP400i" is designed for use as a Hardware-mirrored (RAID1) boot device for Hypervisor,
which cannot be supported by M.2 via the onboard chipset Software RAID.
Supported RAID level : RAID1 only, Supported M.2 Modules : SSD SATA M.2 240GB (S26361-F5706-E240/L240 or S26361-F5707-E240/L240 for
VMware ESXi), 2x M.2 modules (S26361-F5706-E240/L240 or S26361-F5707-E240/L240) and additional PSAS CP400i (S26361-F3842-E22/L502)
need to be ordered separately. An existing PSAS CP400i for data drives cannot support simultaneously the M.2 Boot media with PDUAL AP200.
A separate PSAS CP400i for PDUAL AP200 is required to support a separation for boot and data.
max. 1x per Server

Dual microSD

Dual microSD, PDUAL AP200 and M.2 drive cannot be mixed

Dual microSD Enterprise for booting, non hot-plug, for VMware ESXi

Capacity	*Formfactor*	*Interface*		*Category*		*order code E-part*	*order code L-part*
64GB	microSD	USB		Boot		**S26361-F4045-E64**	**S26361-F4045-L64**

Dual microSD is designed for use as a VMware ESXi boot drive. Only the standardly equipped microSD are supported.
Dual microSD offers Hardware-mirrored (RAID1) flash boot device for VMware ESXi, which cannot be supported by M.2.
vSAN can be booted in case ESXi host has 512 GB of memory or less. Even in case 512 GB or more, if vSAN is 6.5 or later, it can be
booted by resizing the coredump partition on ESXi hosts. For more information, see the VMware knowledge base article at
http://kb.vmware.com/kb/2147881.
max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

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2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs require a RAID Controller or PCIe retimer card.
RAID Controller : PRAID EP520i/540i/580i
PCIe retimer : PPCI CP x16 retimer

*hot plug support : as soon as available

PCIe-SSD 2.5" P4800X (SFF) Enterprise with hot plug/hot replace tray*

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
750GB	2.5" (SFF)	PCIe3.0 x4	Write Intensive	30		**S26361-F5719-E750**	**S26361-F5719-L750**

max. 4x - depending on base unit & configuration

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray*

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.0		**S26361-F5648-E160**	**S26361-F5648-L160**
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.1		**S26361-F5648-E320**	**S26361-F5648-L320**
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.2		**S26361-F5648-E640**	**S26361-F5648-L640**

max. 4x/8x/12x - depending on base unit & configuration

PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray*

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
500GB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.7		**S26361-F5649-E50**	**S26361-F5649-L50**
1TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	1.0		**S26361-F5649-E100**	**S26361-F5649-L100**
2TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.6		**S26361-F5649-E200**	**S26361-F5649-L200**
4TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.6		**S26361-F5649-E400**	**S26361-F5649-L400**

max. 4x/8x/12x - depending on base unit & configuration

AIC PCIe-SSD

PCIe-SSD (occupies one PCIe slot)

S26361-F5650-L200 **S26361-F5650-E200**	**S26361-F5650-L400** **S26361-F5650-E400**
PACC EP P4600 AIC 2TB	PACC EP P4600 AIC 4TB
P4600 series, NVMe 3.0 DWPD PCIe3.0 x4, Low Profile	P4600 series, NVMe 3.1 DWPD PCIe3.0 x4, Low Profile
max. 4x per system	max. 4x per system

PCIe-SSD (occupies one PCIe slot)

S26361-F5697-L375 **S26361-F5697-E375**	**S26361-F5697-L750** **S26361-F5697-E750**
PACC EP P4800X AIC 375GB	PACC EP P4800X AIC 750GB
P4800X series, NVMe 30 DWPD PCIe3.0 x4, Low Profile	P4800X series, NVMe 30 DWPD PCIe3.0 x4, Low Profile
max. 4x per system	max. 4x per system

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Chapter 11 - LAN Components

Default: 2x RJ45 1GbE ports on systemboard

Dynamic LoM OCP PHY interface cards

Interface card to provide the external connectors for on-board LAN				
PLAN EM 4x 1Gb T OCP interface Intel	4x RJ45 plug for 1000BASE-T		**S26361-F3953-E401**	**S26361-F3953-L401**
PLAN EM 2x 10Gb T OCP interface Intel	2x RJ45 plug for 10GBASE-T		**S26361-F3953-E210**	**S26361-F3953-L210**
PLAN EM 2x 10GB SFP+ OCP interface Intel	2x SFP+ cages for SFP+ optical transceivers or twinax cables		**S26361-F3953-E211**	**S26361-F3953-L211**
PLAN EM 4x 10GB SFP+ OCP interface Intel	4x SFP+ cages for SFP+ optical transceivers or twinax cables		**S26361-F3953-E411**	**S26361-F3953-L411**
Optional for products with SFP+ cages: SFP+ optical transceiver modules or twinax cables				
SFP+ Optical Transceiver 10G/1G Dual Rate	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, **Inte**	**S26361-F3986-E5**	**S26361-F3986-L5**
SFP+ Optical Transceiver 10G/1G Dual Rate	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, **Inte**	**S26361-F3986-E6**	**S26361-F3986-L6**
SFP+ Optical Transceiver 10G Single Rate S	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, **Fin**	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Optical Transceiver 10G Single Rate L	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, **Finis**	**S26361-F3986-E4**	**S26361-F3986-L4**
Twinax Anschlussplatz Primergy	2x .. 4x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x .. 4x	customized cable length	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x .. 4x	(best fitting cable length is defined during	**S26361-F3873-E500**	
SFP+ passive Twinax Cable Cisco - **Sold Ou**	2x .. 4x	rack installation at the factory)	**S26361-F4571-E500**	
max. 1x per cage				
max. 1x per system				

Intel QuickAssist Technology Adapters

Intel QuickAssist Technology Adapters				
This PCIe x16 adapter card adds QuickAssist technology to systems with Intel C624 LBG-4 chipset implementations, in order to provide feature-parity with Intel C627 LBG-T chipsets. QuickAssist accelerates compression ~65Gb/s, encryption ~100Gb/s, and RSA ~100 Ops/s. The adapter ships without any kind of drivers, end customers are responsible to develop, provide them themselves, or download from Intal as soon as available. The adapter card does not implement any kind of Ethernet network functionality, except that it accelerates Ethernet traffic from either DynamicLoM or Intel Ethernet adapter cards.				
PACC EP QAT8970 with Full Height bracket	2x	Intel QuickAssist Technology Adapter 8970 PCIe x16	**S26361-F4062-E100**	**S26361-F4062-L500**
PACC EP QAT8970 with Low Profile bracket	2x	Intel QuickAssist Technology Adapter 8970 PCIe x16	**S26361-F4062-E200**	
Submitting a formal Release Request in order to activate shipment may apply for the time being to confirm with requestor: ships without drivers.				
max. 2 adapters per server system				

1Gb Ethernet network components

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

10Gb Ethernet network components

10GBASE-T

10/1Gb Ethernet network adapters with RJ45 interface (10GBASE-T)				
Dual speed support, auto-sense: supports 10Gbps and 1Gbps line rate per-port. Only Cavium adapters provide Universal RDMA capabilities, both iWARP and RoCE. Intel adapters don't provide any. Emulex adapters are close to end of sales.				
PLAN EP QL41112 2x10GBASE-T FH	4x	2 port NIC with Universal RDMA, **Cavium** QL41112HLRJ	**S26361-F4068-E2**	**S26361-F4068-L502**

PLAN EP QL41112 2x10GBASE-T LP	6x	2 port NIC with Universal RDMA, **Cavium** QL41112HLRJ	**S26361-F4068-E202**	**S26361-F4068-L502**
PLAN EP QL41134 4x10GBASE-T FH	4x	**4 port** NIC with Universal RDMA, **Cavium** QL41134HLRJ	**S26361-F4068-E4**	**S26361-F4068-L504**
PLAN EP QL41134 4x10GBASE-T LP	6x	**4 port** NIC with Universal RDMA, **Cavium** QL41134HLRJ	**S26361-F4068-E204**	**S26361-F4068-L504**
PLAN EP X550-T2 2x10GBASE-T FH	4x	2 port NIC, **Intel** X550-T2	**S26361-F3948-E2**	**S26361-F3948-L502**
PLAN EP X550-T2 2x10GBASE-T LP		2 port NIC, **Intel** X550-T2	**S26361-F3948-E202**	**S26361-F3948-L502**
PLAN EP X710-T4 4x10GBASE-T FH	4x	**4 port** NIC, **Intel** X710-T4	**S26361-F3948-E4**	**S26361-F3948-L504**
PLAN EP X710-T4 4x10GBASE-T LP		**4 port** NIC, **Intel** X710-T4	**S26361-F3948-E204**	**S26361-F3948-L504**
PLAN EP OCe14102 2x 10GBase-T FH	4x	2 port NIC, **Emulex** OCe14102	**S26361-F5557-E1**	**S26361-F5557-L501**
PLAN EP OCe14102 2x 10GBase-T LP		2 port NIC, **Emulex** OCe14102	**S26361-F5557-E201**	**S26361-F5557-L501**
max. 6 adapters per server system				

10G SFP+

10/1Gb Ethernet network adapters with SFP+ cage. Adapter ships with empty cages.				
Each cage consumes 1x optical SFP+ transceiver per port, or 1x twinax cable per port, or 1x DAC cable per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. Only Cavium adapters provide Universal RDMA capabilities, both iWARP and RoCE. Intel adapters don't provide any.				
For Converged Network Adapter features such as iSCSI, iSCSI Offload, FCoE please select the PCNA EP QL41262 from the Converged Ethernet network adapters section				
PLAN EP QL41132 2x10Gb SFP+ FH	4x	2 port NIC with Universal RDMA, **Cavium** QL41132HLCU	**S26361-F4069-E2**	**S26361-F4069-L502**
PLAN EP QL41132 2x10Gb SFP+ LP	6x	2 port NIC with Universal RDMA, **Cavium** QL41132HLCU	**S26361-F4069-E202**	**S26361-F4069-L502**
PLAN EP X710-DA2 2x10Gb SFP+ FH	4x	2 port NIC, **Intel** X710-DA2	**S26361-F3640-E2**	**S26361-F3640-L502**
PLAN EP X710-DA2 2x10Gb SFP+ LP		2 port NIC, **Intel** X710-DA2	**S26361-F3640-E202**	**S26361-F3640-L502**
PLAN EP X710-DA4 4x10Gb SFP+ FH	4x	**4 port** NIC, **Intel** X710-DA4	**S26361-F3640-E4**	**S26361-F3640-L504**
PLAN EP X710-DA4 4x10Gb SFP+ LP		**4 port** NIC, **Intel** X710-DA4	**S26361-F3640-E204**	**S26361-F3640-L504**
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, **Finisar**	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Optical Transceiver 10G Single Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, **Finisar**	**S26361-F3986-E4**	**S26361-F3986-L4**
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, **Intel**	**S26361-F3986-E5**	**S26361-F3986-L5**
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, **Intel**	**S26361-F3986-E6**	**S26361-F3986-L6**
"Virtual Connector" for Twinax cables	2x .. 4x	Enablement for System Architect	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x .. 4x	Customized length. Best fitting length seected at rack factory installation.	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x .. 4x		**S26361-F3873-E500**	
Max. 2x SFP+, DAC, or Twinax Cable per 2 port adapter. Max. 4x SFP+, DAC, or Twinax Cable per 4 port adapter.				
max. 6 adapters per server system				

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)				
Emulex adapters are close to end of sales.				
For Converged Network Adapter features such as iSCSI, iSCSI Offload, FCoE please select the PCNA EPOCe14102 from the Converged Ethernet network adapters section.				

PLAN EP OCe14102 2x10Gb FH	4x	2 port NIC, **Emulex** OCe14102	**S26361-F5536-E2**	**S26361-F5536-L502**
PLAN EP OCe14102 2x10Gb LP	4x	2 port NIC, **Emulex** OCe14102	**S26361-F5536-E202**	**S26361-F5536-L502**
optional 10Gb SFP+ module with LC connector for Emulex controller				
PCNA SFP+ MMF Modul OCe14102	4x	MMF / SR SFP+ module, up to 400m, **Emulex**	**S26361-F5250-E110**	**S26361-F5250-E110**
Twinax Anschlussplatz Primergy	4x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	4x	customized cable length (best fitting cable length is defined during rack installation at the factory)	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	4x		**S26361-F3873-E500**	
max. 2x SFP+ or Twinax Cable per controller				
max. 4 Controller per system				

10Gb Converged Ethernet network components

25Gb Converged Ethernet network components

10G SFP+

25G SFP28

10/25Gb Converged Ethernet network adapters with SFP+/SFP28 cages. Adapter ships with empty cages.				
10G: Each cage consumes 1x optical SFP+ transceiver per port, or 1x twinax cable per port, or 1x DAC cable per port. Dual rate 10G/1G transceivers will work at 10G line rate only. 25G: Each cage consumes 1x optical SFP28 transceiver per port, or 1x 25G DAC cable per port. 25G transceivers will work at 25G line rate only.				
iSCSI and iSCSI Offload support will not be included in the initial hardware release. If you wish to get support for FCoE please submit a Release Request with the desired PRIMERGY server system configuration SAR/XLSX file attachment as described in the process.				
PCNA EP QL41262 2x10/25Gb SFP+/SFP28 FH	4x	2 port **CNA** with FCoE, iSCSI Offload, Universal RDMA, **Cavium** QL41262HLCU	**S26361-F4070-E2**	**S26361-F4070-L502**
PCNA EP QL41262 2x10/25Gb SFP+/SFP28 LP	6x	2 port **CNA** with FCoE, iSCSI Offload, Universal RDMA, **Cavium** QL41262HLCU	**S26361-F4070-E202**	**S26361-F4070-L502**
Optional, 10Gb SFP+ optical transceiver module, one per cage or port				
SFP+ Optical Transceiver 10G Single Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, **Finisar**	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Optical Transceiver 10G Single Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, **Finisar**	**S26361-F3986-E4**	**S26361-F3986-L4**
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, **Intel**	**S26361-F3986-E5**	**S26361-F3986-L5**
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, **Intel**	**S26361-F3986-E6**	**S26361-F3986-L6**
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x	Customized length. Best fitting length seected at rack factory installation.	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
Max. 2x SFP+, DAC, or Twinax Cable per adapter				
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	**S26361-F4054-E701**	**S26361-F4054-L701**
SFP28 Optical Transceiver 25G SR E25GSFP28SR LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	**S26361-F4055-E701**	**S26361-F4055-L701**
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-25**	
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
25G DAC - Cisco	2x			
25G DAC - Intel	2x			
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
25G AOC - Cisco	2x			
25G AOC - Intel	2x			
Max. 2x SFP28, 25G DAC, or 25G AOC per adapter				
max. 8x adapters per system				

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)				
PCNA EP OCe14102 2x 10Gb FH	4x	2 port **CNA** with FCoE & RDMA, **Emulex**	**S26361-F5250-E1**	**S26361-F5250-L501**
PCNA EP OCe14102 2x 10Gb LP	4x	2 port **CNA** with FCoE & RDMA, **Emulex**	**S26361-F5250-E201**	**S26361-F5250-L501**

optional 10Gb SFP+ module with LC connector for Emulex controller, each cage consumes one.				
PCNA SFP+ MMF Modul OCe14102	2x	MMF / SR SFP+ module, up to 400m, **Emulex**	**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 (best fitting cable length is defined during rack installation at the factory)	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
max. 2x SFP+ or Twinax Cable per controller				
max. 4 Controller per system				

25/10Gb Ethernet network components

10G SFP+ 25G SFP28

25/10Gb Ethernet network adapter with 2x SFP28 cages (requires twinax cables or optical transceiver SFP28 or SFP+ modules)				
Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port. Your choice of optical transceiver decides about the actual line rate.				
Only Cavium adapters provide Universal RDMA capabilities, both iWARP and RoCE. Mellanox adapters provide RoCE RDMA only. Intel adapters don't provide any.				
PLAN EP QL41212 25Gb 2p SFP28 FH	4x	2 port NIC with Universal RDMA: iWARP & RoCE, **Cavium** QL41212	**S26361-F4056-E2**	**S26361-F4056-L502**
PLAN EP QL41212 25Gb 2p SFP28 LP	6x	2 port NIC with Universal RDMA: iWARP & RoCE, **Cavium** QL41212	**S26361-F4056-E202**	**S26361-F4056-L502**
PLAN EP MCX4-LX 25Gb 2p SFP28 FH	4x	2 port NIC with RDMA: RoCE, **Mellanox** ConnectX4-LX	**S26361-F4054-E2**	**S26361-F4054-L502**
PLAN EP MCX4-LX 25Gb 2p SFP28 LP	6x	2 port NIC with RDMA: RoCE, **Mellanox** ConnectX4-LX	**S26361-F4054-E202**	**S26361-F4054-L502**
PLAN EP XXV710-DA2 2x25Gb FH	4x	2 Port NIC, **Intel** XXV710-DA2	**S26361-F4055-E2**	**S26361-F4055-L502**
PLAN EP XXV710-DA2 2x25Gb LP	6x	2 Port NIC, **Intel** XXV710-DA2	**S26361-F4055-E202**	**S26361-F4055-L502**
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	**S26361-F4054-E701**	**S26361-F4054-L701**
SFP28 Optical Transceiver 25G SR E25GSFP28SR LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	**S26361-F4055-E701**	**S26361-F4055-L701**
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-25**	
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
25G DAC - Cisco	2x			
25G DAC - Intel	2x			
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
25G AOC - Cisco	2x			
25G AOC - Intel	2x			
Max. 2x SFP28, 25G DAC, or 25G AOC per adapter				
Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.				
SFP+ Optical Transceiver 10G Single Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, **Finisar**	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Optical Transceiver 10G Single Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, **Finisar**	**S26361-F3986-E4**	**S26361-F3986-L4**
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, **Intel**	**S26361-F3986-E5**	**S26361-F3986-L5**
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, **Intel**	**S26361-F3986-E6**	**S26361-F3986-L6**
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x	Customized length. Best fitting length seected at rack factory installation.	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
Max. 2x SFP+, DAC, or Twinax Cable per adapter				
max. 8x adapters per system				

25/10Gb Ethernet controller with 2x SFP28 cages (for twinax cables or optical transceiver SFP+ modules)

Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port. **Note: This is not the most current product. The successor product is PLAN EP QL41212.**				
PLAN EP QL45212 2x25Gb FH	2x	Dual Port NIC, RoCE RDMA, WS2016, **Qlogic**	**S26361-F5622-E2**	**S26361-F5622-L502**
PLAN EP QL45212 2x25Gb LP	2x	Dual Port NIC, RoCE RDMA, WS2016, **Qlogic**	**S26361-F5622-E202**	**S26361-F5622-L502**
optional 25G DAC				
max. 2x 25G DAC per controller				
optional 10Gb SFP+ module with LC connector for Fujitsu / Intel / Qlogic based controller				
SFP+ Transceiver Module MMF 10GbE LC	4x	MMF / SR SFP+ module, up to 400m	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Transceiver Module SMF 10GbE LC	4x	SMF / LR SFP+ module, up to 10km	**S26361-F3986-E4**	**S26361-F3986-L4**
Twinax Anschlussplatz Primergy	4x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	4x	customized cable length (best fitting cable length is defined during rack installation at the factory)	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	4x		**S26361-F3873-E500**	
max. 2x SFP+ or Twinax Cable per controller				
max. 2 Controller per system				

40/10Gb Ethernet network components

40Gb Ethernet controller with QSFP cage (requires DAC, AOC cables or optical transceiver QSFP modules)				
Supports 40Gbps line rate per-port				
PLAN EP MCX4-EN 40Gb 2p QSFP FH	4x	Dual Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4053-E2**	**S26361-F4053-L502**
PLAN EP MCX4-EN 40Gb 2p QSFP LP	4x	Dual Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4053-E202**	**S26361-F4053-L502**
Optional, 40Gb QSFP Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 40Gb 2p QSFP				
QSFP 40G SR4L MPO 850nm 30m MC2210411-SR4L	2x	MMF / SR4L QSFP module, Mellanox. Max reach supported 30m	**S26361-F4053-E701**	**S26361-F4053-L701**
QSFP 40G SR4 MPO 850nm 150m MC2210411-SR4	2x	MMF / SR4 QSFP module, Mellanox. Max reach supported 150m	**S26361-F4053-E702**	**S26361-F4053-L702**
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-40**	
40G DAC - Cisco	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
40G DAC - Mellanox	2x			
40G AOC - Cisco	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
40G AOC - Mellanox	2x			
rmax. 2x QSFP or DAC, AOC per PLAN EP MCX4-EN 40Gb 2p QSFP				
max. 8x PLAN EP MCX4-EN 40Gb 2p QSFP				

100Gb Ethernet network components

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)				
Supports 100Gbps line rate				
PLAN EP QL45611 100Gb 1p QSFP28 FH	4x	Single Port NIC, RoCE RDMA, **Cavium**	**S26361-F4057-E1**	**S26361-F4057-L501**
PLAN EP QL45611 100Gb 1p QSFP28 LP	6x	Single Port NIC, RoCE RDMA, **Cavium**	**S26361-F4057-E201**	**S26361-F4057-L501**
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP QL45611 100Gb 1p QSFP28				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	**S26361-F4052-E701**	**S26361-F4052-L701**
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	**S26361-F4052-E801**	**S26361-F4052-L801**
"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-100**	
100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G DAC - Mellanox	1x			
100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G AOC - Mellanox	1x			
Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP QL45611 100Gb 1p QSFP28				
max. 8x PLAN EP QL45611 100Gb 1p QSFP28				

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)				
Supports 100Gbps line rate				
PLAN EP MCX4-EN 100Gb 1p QSFP28 FH	4x	Single Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4052-E1**	**S26361-F4052-L501**
PLAN EP MCX4-EN 100Gb 1p QSFP28 LP	4x	Single Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4052-E201**	**S26361-F4052-L501**
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 100Gb 1p QSFP28				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	**S26361-F4052-E701**	**S26361-F4052-L701**
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	**S26361-F4052-E801**	**S26361-F4052-L801**
"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-100**	
100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G DAC - Mellanox	1x			
100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G AOC - Mellanox	1x			
Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP MCX4-EN 100Gb 1p QSFP28				
max. 8x PLAN EP MCX4-EN 100Gb 1p QSFP28				

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Network cables for later upgrade

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

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

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Chapter 12 - Fibre Channel Controller

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32Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM4 or OM3)				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 32, 16, and 8Gbps.				
PFC EP LPe32000 1x 32Gb	7x	1 port, full height, Broadcom/Emulex	**S26361-F4044-E1**	**S26361-F4044-L501**
PFC EP LPe32000 1x 32Gb LP	7x	1 port, low profile, Broadcom/Emulex	**S26361-F4044-E201**	**S26361-F4044-L501**
PFC EP LPe32002 2x 32Gb	7x	2 port, full height, Broadcom/Emulex	**S26361-F4044-E2**	**S26361-F4044-L502**
PFC EP LPe32002 2x 32Gb LP	7x	2 port, low profile, Broadcom/Emulex	**S26361-F4044-E202**	**S26361-F4044-L502**
PFC EP QLE2740 1x 32Gb	7x	1 port, full height, Cavium/Qlogic	**S26361-F4043-E1**	**S26361-F4043-L501**
PFC EP QLE2740 1x 32Gb LP	7x	1 port, low profile, Cavium/Qlogic	**S26361-F4043-E201**	**S26361-F4043-L501**
PFC EP QLE2742 2x 32Gb	7x	2 port, full height, Cavium/Qlogic	**S26361-F4043-E2**	**S26361-F4043-L502**
PFC EP QLE2742 2x 32Gb LP	7x	2 port, low profile, Cavium/Qlogic	**S26361-F4043-E202**	**S26361-F4043-L502**
16Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM4 or OM3)				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 16, 8, and 4Gbps.				
PFC EP LPe31000 1x 16Gb	7x	1 port, full height, Broadcom/Emulex	**S26361-F5596-E1**	**S26361-F5596-L501**
PFC EP LPe31000 1x 16Gb LP	7x	1 port, low profile, Broadcom/Emulex	**S26361-F5596-E201**	**S26361-F5596-L501**
PFC EP LPe31002 2x 16Gb	7x	2 port, full height, Broadcom/Emulex	**S26361-F5596-E2**	**S26361-F5596-L502**
PFC EP LPe31002 2x 16Gb LP	7x	2 port, low profile, Broadcom/Emulex	**S26361-F5596-E202**	**S26361-F5596-L502**
PFC EP QLE2690 1x 16Gb	7x	1 port, full height, Cavium/Qlogic	**S26361-F5580-E1**	**S26361-F5580-L501**
PFC EP QLE2690 1x 16Gb LP	7x	1 port, low profile, Cavium/Qlogic	**S26361-F5580-E201**	**S26361-F5580-L501**
PFC EP QLE2692 2x 16Gb	7x	2 port, full height, Cavium/Qlogic	**S26361-F5580-E2**	**S26361-F5580-L502**
PFC EP QLE2692 2x 16Gb LP	7x	2 port, low profile, Cavium/Qlogic	**S26361-F5580-E202**	**S26361-F5580-L502**
max. 7 Controller per system (mixed configurations are supported)				

Chapter 13 - Infiniband Controllers

S26361-F4533-E102
IB HCA 56Gb 1channel FDR
56GBit 1channel Infiniband Controller with FDR technology
Q-SFP+ connector
PCIe x8 full height Card, 170mm
max. 2x per system

S26361-F4533-E202
IB HCA 56Gb 2channel FDR
56GBit 2channel Infiniband Controller with FDR technology
Q-SFP+ connector
PCIe x8 full height Card, 170mm
max. 2x per system

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)

S26361-F3996-E556
IB Cu Cable 56Gb
QSFP, 1 or 3m
max. 1/ 2x per Controller

The following card can not be mixed Infiniband card(S26361-F4533-E102/S26361-F4533-E202/S26361-F5540-E102/E202)

S26361-F4054-E302/S26361-F4052-E201/S26361-F4052-E1/S26361-F4053-E2/S26361-F4053-E202
S26361-F4054-E2/S26361-F4054-E202

The following card can not be mixed with Infiniband card(S26361-F5562-E10)

S26361-F4054-E302/S26361-F4052-E201/S26361-F4052-E1/S26361-F4053-E2/S26361-F4053-E202
S26361-F4054-E2/S26361-F4054-E202

S26361-F5540-E102/E202
IB HCA 100Gb 1 / 2channel EDR
100GBit 1 / 2channel Infiniband Controller EDR technology (8.0GT/s)
1x / 2x Q-SFP+ connector
PCIe Gen3 x16 low profile Card, 170mm
max. 2x per system

S26361-F5562-E10
POP EP 100Gb 1 Channel
100GBit 1 channel Omni Path HFI Card (8.0GT/s)
1x Q-SFP+ connector
PCIe Gen3 x16 low profile Card, 170mm
max. 2x per system

S26361-F5549-E561/-E563
IB Cu Cable 100Gb
QSFP, 1 or 3m
max. 1/ 2x per Controller

S26361-F5563-E150/-E200/-E300
Omni Passive Cable 100Gb
QSFP, 1.5m or 2m or 3m
max. 1 per Controller

Network Components, Controller and cables for later upgrade

56Gbit/s 1ch Infiniband Controller	S26361-F4533-L102
56Gbit/s 2ch Infiniband Controller	S26361-F4533-L202
100Gbit/s 1ch Infiniband Controller	S26361-F5540-L102
100Gbit/s 2ch Infiniband Controller	S26361-F5540-L202
QSFP, IB 56Gb, 1m	S26361-F3996-L561
QSFP, IB 56Gb, 3m	S26361-F3996-L563
QSFP, IB 100Gb, 1m	S26361-F5549-L561
QSFP, IB 100Gb, 3m	S26361-F5549-L563

Omni Path

100Gbit/s 1ch Omni Path HFI Card	S26361-F5562-L10
QSFP, Omni 100Gb, 1.5m	S26361-F5563-L150
QSFP, Omni 100Gb, 2m	S26361-F5563-L200
QSFP, Omni 100Gb, 3m	S26361-F5563-L300

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Chapter 14 - Power supply unit, power cable, certifications, region kits

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Power supply unit

modular redundant Power Supply				
2nd PSU for redundancy				
occupies hot plug PSU slot, min. 1 / max. 2x per system				
input nominal voltage (AC): 100V-240V, max: 90V-264V; input dropout 10ms/100% load, 47Hz-63Hz				
450W platinum PSU	94% eff.		**S26113-F575-E13**	**S26113-F575-L13**
800W platinum PSU	94% eff.		**S26113-F574-E13**	**S26113-F574-L13**
800W titanium PSU	96% eff.	nom. 220-240V, max. 180-264V	**S26113-F615-E10**	**S26113-F615-L10**
1200W platinum PSU	94% eff.	100V: 1000W, 90V: 900W	**S26113-F616-E10**	**S26113-F616-L10**
DC PSU				
800W PSU DC	92% eff.	48V DC, powercord see below	**S26113-F624-E10**	**S26113-F624-L10**
1300W PSU HVDC	94% eff.	380V DC, powercord: PRIMERGY-PM	**S26113-F626-E10**	**S26113-F626-L10**
Dummy module instead PSU				
Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system			**S26113-F574-E99**	

Power cord option for Rack Server, 1x per PSU		
Cable powercord rack, 1.8m, black, IEC 320 C14 -> C13 (10A plug)	**T26139-Y1968-E180**	**T26139-Y1968-L180**
Cable powercord rack, 2.5m, black, IEC 320 C14 -> C13 (10A plug)	**T26139-Y1968-E250**	**T26139-Y1968-L250**
Cable powercord rack, 4m, black, IEC 320 C14 -> C13 (10A plug)	**T26139-Y1968-E100**	**T26139-Y1968-L10**
Cable powercord (USA) 15A, 1.8m, black, NEMA 5-15 connector 498G -> C13 (plug), 15A, , rack or wall	**T26139-Y1741-E90**	**T26139-Y1741-L90**
Cable powercord (Taiwan), 1.8m, rack or wall	**T26139-Y1757-E10**	**T26139-Y1757-L10**
Cable powercord -48V DC, 4m, black	**T26139-Y4024-E10**	**T26139-Y4024-L10**
Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey		**T26139-Y1740-L10**
Cable powercord (UK, IR), 1.8m, grey		**T26139-Y1744-L10**
Cable powercord (I), 1.8m, grey		**T26139-Y1745-L10**
Cable powercord (DK), 1.8m, grey		**T26139-Y1746-L10**
Cable powercord (ISR), 2.5m, black		**T26139-Y1747-L10**
Cable powercord (AUS/NZ), 1.8m, grey		**T26139-Y1748-L10**
no power cord	**T26139-Y3850-E10**	

Region Kits, 1x per System		
Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian and Welsh language	**S26361-F1452-E140**	
Region Kit APAC/EMEA/India, Contains warranty sheet and safety instructions for APAC, EMEA and India	**S26361-F1452-E100**	
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	**S26361-F1452-E130**	

Certifications, Made in Germany Sticker, optional 1x per system		
Certification for China, (CCC), Reduced component selection possible, only with no power cord option	**S26361-F3301-E120**	
Certification for India, (BIS), Reduced component selection possible, only with no power cord option	**S26361-F3301-E123**	
Made in Germany sticker	**S26361-F3301-E100**	

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Chapter 16 - others

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S26361-F1790-E243
S26361-F1790-L244
iRMC advanced pack
integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

„as soon as available“

S26361-F1790-E311
embedded Lifecycle Management (eLCM)
Server Online Update
OS driver Update
Hardware firmware update
Server Offline Update
Hardware update via Update Manager Express
PrimeCollect
Autonomous creation of Primecollect archives
Creation and use of PrimeCollect archives over AIS connect
Custom Image (Jukebox function)
Automatic and manual download of CD and DVD Images
Automatic and manual start of CD and DVD Images
max. 1x per system

Loose delivery
eLCM Activation Pack
(Node Locked License)
BDL:ELCM-PACK
options contains:
- 16GB SD card
- Paper with TAN for Licensekey

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

S26361-F3776-E440
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-E445
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-E100
S26361-F3552-L100
TPM 2.0 Module SPI
max. 1x per system

S26361-F3552-E101
TPM 1.2 Module SPI
max. 1x per system

S26361-F3120-E50
S26361-F3120-L50
Serial Port Option
RS-232-C
for a RS-232-C Serial Port Interface
does NOT occupy PCI slot
max. 1x per system

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Accessories

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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**

End PRIMERGY RX2540 M2

Date of change [dd.mm.yyyy]	Folder / order code / description	Name	What has been changed / comment
05.03.2019	RAID, base folder -V884	J.Linne	max # of RAID controllers for -V884 = 4 mix of EP5xx with EP4xxi or PRAID CP400 not allowed
14.02.2019	HD_SSD / S26361-F5719-E750/L750	Yuichi Sugiyama	removed the description as "as soon as available"
13.02.2019	HD_SSD / S26361-F3907-* / added the exclu	Yuichi Sugiyama	added the exclusion for HDD SATA 2.5" 7.2K 512e and
08.02.2019	LAN_FC_IB	takaoka Masanori	Add the limitation for Mellanox Infiniband/Ether. Add the limitation for Intel OMNI/Mellanox Ether.
01.02.2019	GFX_FPGA	Takayuki Sasaki	Add a comment about "Temperature Limitation" in "GFX_FPGA" tab.
18.01.2019	HD_SSD / S26361-F5712/F5713/F5714/F571	Yuichi Sugiyama	revised the description about max drives
15.01.2019	HDD_SSD / S26361-F5719-*	Tatsuya Sudou	added
10.01.2019	HDD_SSD / AP200	Hirofumi Konno	Removed S26361-F4046-E1
13.12.2018	Base	Takayuki Sasaki	Modify Rack Architecture
20.11.2018	Chapter 1	R. Brunnbauer	Update different BU
09.11.2018	Chapter 1	R. Brunnbauer	Update text and pictures different BU
29.10.2018	HD_SSD / S26361-F5712/F5713/F5714/F571	Yuichi Sugiyama	added
29.10.2018	HD_SSD / S26361-F5635/F5638-E800/L800	Yuichi Sugiyama	added
26.10.2018	HD_SSD / exclusions for 8/10TB HDDs and	Yuichi Sugiyama	removed
22.10.2018	GFX	Takayuki Sasaki	Add and modify NVIDIA GRID license SKU.
12.10.2018	HD_SSD / S26361-F5588/F5589-E384/L384	Yuichi Sugiyama	Cleared the highlight of the cells as yellow
11.10.2018	HD_SSD / S26361-F5588/F5589-E384/L384 / Added	Yuichi Sugiyama	Added: SSD SATA 2.5" & 3.5" Mixed-Use 3.84TB
11.10.2018	RAID folder	J.Linne	changed # of RAID controllers for -V216 and -V238, see comments in orange, folder RAID
20.09.2018	RAID folder	J.Linne	changed # of RAID controllers for tripple -v238
18.09.2018	GFX	Takayuki Sasaki	Modify Graphic Card - Options in "GFX_FPGA" tab.
05.09.2018	GFX_FPGA	Takayuki Sasaki	Delete NVIDIA GRID license SKU due to Vender EOL.
31.08.2018	LAN / S26361-F4068-E2, E202, L502	Ulrich Lösch	Added: PLAN EP QL41112 2x10GBASE-T LP
31.08.2018	LAN / S26361-F4068-E4, E204, L504	Ulrich Lösch	Added: PLAN EP QL41134 4x10GBASE-T LP
31.08.2018	LAN / S26361-F4069-E2, E202, L502	Ulrich Lösch	Added: PLAN EP QL41132 2x10Gb SFP+ LP
31.08.2018	LAN / S26361-F4070-E2, E202, L502	Ulrich Lösch	Added: PCNA EP QL41262 2x10/25Gb SFP+/SFP28 LP
31.08.2018	LAN	Ulrich Lösch	Cosmetic changes: 25G Ethernet section
31.08.2018	Chapter 1	R. Brunnbauer	Update triple BU with 2x 16 ch.
28.08.2018	S26113-F624-E10	J.Linne	update efficiency -48V DC PSU 92%
10.08.2018	Chapter 1	R. Brunnbauer	Update triple BU and 165W GPU BU
07.08.2018	HD_SSD / S26361-F5709/F5710/F5711-*	Tatsuya Sudou	added
01.08.2018	HD_SSD / Dual M.2	Tatsuya Sudou	Notes updated
11.07.2018	GFX_FPGA	Takayuki Sasaki	Modify GFX canrd - Options in "GFX_FPGA" tab.
04.07.2018	Chapter 1	R. Brunnbauer	Added "Triple" base unit V238
04.07.2018	RAID folder	Johannes Linne	comments for advanced SW options edited added PRAID EP540e + FBU, on special release
02.07.2018	GFX_FPGA	Takayuki Sasaki	Modify GFX canrd and FPGA Card - Options in "GFX_FPGA"
23.05.2018	HD_SSD / F5707-* / M.2 for VMware	Yuichi Sugiyama	added
19.06.2018	PSU: HVDC 1300W, S26113-F626-E10	Johannes Linne	removed commend"as soon as available"
14.06.2018	RAID folder updated	Johannes Linne	max 3 PRAID EP540/80i in all fields and comments edited
05.06.2018	base and RAID folder updated	Johannes Linne	for V884: max 3 PRAID EP540/80i allowed, not for
23.05.2018	HD_SSD / F4064-* / Dual M.2	Yuichi Sugiyama	revised the description for VMware
18.05.2018	Rack Mount Kit	Kouji Takahashi	added the comment of S26361-F2735-E176.
17.05.2018	RAID folder updated	Johannes Linne	detailed description of number of controllers
17.05.2018	HD_SSD / F4064-* / Dual M.2	Yuichi Sugiyama	added the Dual M.2
24.04.2018	Chapter 1	R. Brunnbauer	Added LC base unit V724

19.04.2018	LAN	U. Lösch	Added: PLAN EP X710-T4 4x10GBASE-T
29.03.2018	HD_SSD / Note for PCIe-SSD	Tatsuya Sudou	"hot plug support : as soon as possible" added
21.03.2018	LAN	U. Lösch	SFP28 S26361-F4055-E/L701 added for PLAN EP
21.03.2018	FC	U. Lösch	QLE274X S26361-F4043-E/LXXX Max = 7, up from 4
21.03.2018	FC	U. Lösch	LPE3200X S26361-F4044-E/LXXX Max = 7, up from 4
21.03.2018	FC	U. Lösch	QLE269X S26361-F5580-E/LXXX Max = 7, up from 6
21.03.2018	FC	U. Lösch	LPE3100X S26361-F5596-E/LXXX Max = 7, up from 6
20.03.2018	LAN	U. Lösch	Intel QuickAssist PCIe Adapters
02.03.2018	HD_SSD / F5701/F5700/F5706/F5697-*	Tatsuya Sudou	added
28.02.2018	GFX	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
13.02.2018	LAN	U. Lösch	PLAN EP QL41212 & QL45611 added
09.02.2018	RAID, S26361-F3847 -E2/E4	Johannes Linne	added FH version of PRAID EP420e +
08.02.2018	RAM	Klaus-Dieter Ruf	Rank sparing capa @ 3DS DIMMs updated
31.01.2018	Xeon Silver 4114T	L. Meszaros	set to Special Release
23.01.2018	GFX	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
17.01.2018	base	Sven Pilz	comment on liquid cooling BU adjusted
15.01.2018	HD_SSD / F5694/F5692-* / F5543	Tatsuya Sudou	/F5582/F5569-E124 / F5571/F5624/F3904-E120 added
15.01.2018	HD_SSD	Tatsuya Sudou	exclusions for PRAID EP540i and 8/10GB SATA HDD
04.01.2018	LAN	U. Lösch	Max=2 --> Max=8 for Mellanox Ethernet Adapter 25, 40,
08.12.2017		R. Brunnbauer	NVS315 on special release only
22.11.2017	Note 4x rear SSF option	R. Brunnbauer	now limitation with 140W CPUs instead of 135W
13.11.2017	HD_SSD	Tatsuya Sudou	note for Dual microSD and DWPD for PCIe-SSD modified
25.10.2017	RAID	A. Spörl	note in Z60S51 changed
25.10.2017	HD_SSD	A. Spörl	exclusions for PRAID EP5xxi and PSAS CP400 and
24.10.2017	LAN	U. Lösch	Added: 25GbE Ethernet Adapter, Intel
19.10.2017	HD_SSD / S26361-F4045-E64	Tatsuya Sudou	added
27.09.2017	HD_SSD / F5588/F5589-E240/E480	Tatsuya Sudou	removed(EOL)
27.09.2017	HD_SSD / S26361-F5650-E640	Tatsuya Sudou	removed
15.09.2017	LAN	U. Lösch	Cosmetic change Dynamic LoM: cages and optical
05.09.2017	HD_SSD / Note	Tatsuya Sudou	removed for 2.5" 7.2K/15K HDD / added for M.2 drive
23.08.2017	S26361-F3845-E201, S26361-F3847-	Johannes Linne	4 controller possible by special release, 2 = max
17.08.2017	HD_SSD / HDD SAS 3.5" 10K 512n	Tatsuya Sudou	max. number corrected
07.08.2017	S26361-F3694-E3	Klaus-Dieter Ruf	Update of memory mirrored mode description
31.07.2017	S26361-F4024-*	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
25.07.2017	S26361-F4051-L840	Fabian Seil	cooling kit deleted
24.07.2017	HD_SSD / F5673/F5675-* / F5531/F5532-E590	Tatsuya Sudou	added
20.07.2017	LAN	U. Lösch	Added: 10GbE Ethernet Adapter X710-DA4 4-Port, Intel
20.07.2017	HD_SSD / S26361-F5648-* / PCIe SSD	Tatsuya Sudou	codes modified / DWPD corrected
19.07.2017	LAN	U. Lösch	Added: 25/40/100GbE Ethernet Adapters, Mellanox
12.07.2017	RAID	Fabian Seil	info-text changed
11.07.2017	HDD folder: S26362-F4042-E204	J.Linne	exclude PRAID EP540i from 8/10TB SATA HDD
11.07.2017	PSU folder: T26139-Y1741-E90, S26113-	J.Linne	PSU folder in List form, including new 380V HVDC PSU,
28.06.2017	Chapter 1	R. Brunnbauer	ServerView Suite Software option only
29.06.2017	RAID	Fabian Seil	FBU options changed
28.06.2017	Chapter 1	R. Brunnbauer	ODD and OP possible for base units V304 and V308
22.06.2017	RAID	Johannes Linne	addend comment ** for up to 3 additional EP5xxi
21.06.2017	Several	R. Brunnbauer	major update base units, options and ATD40/45
16.06.2017	HD_SSD / F5614/F5617/F5612/F5615-*	Tatsuya Sudou	removed
13.06.2017	RAID	Fabian Seil	descriptions of FBU options changed
09.06.2017	LAN_FC	Ulrich Lösch	10/1GbE: More SFP+ options added.
09.06.2017	LAN_FC	Ulrich Lösch	25/10GbE: More cables added.
09.06.2017	LAN_FC	Ulrich Lösch	Correction: 4x SFP+
09.06.2017	CPU	L. Meszaros	order codes of upgrade cooling kits added
08.06.2017	CPU	Fabian Seil	order codes of loose components added
06.06.2017	HD_SSD / F5666/F5670/F5662/F5668-*	Tatsuya Sudou	added
18.05.2017	RAID	Fabian Seil	info-text added
09.05.2017	RAM	Fabian Seil	new order codes added
09.05.2017	S26361-F3552-E101	Fabian Seil	added
27.04.2017	PLAN EP QL45212	U.Lösch	Updated
27.04.2017	USB Devices	M.Maridakis	New ext. ODD added
19.04.2017		R. Brunnbauer	Rear Pictures corrected
11.04.2017	S26361-F1790-E311	R. Brunnbauer	eLCM corrected

06.04.2017	S26361-F5243-E155	Johannes Linne	only 55 cm cable
06.04.2017	PCNA EP OCec14102 2x 10Gb DMF	Ulrich Lösch	Deleted - No Drivers.
04.04.2017	RAM	Fabian Seil	Mirrored Channel Mode text modified
30.03.2017	S26361-F5243-E14/L14	Fabian Seil	added
29.03.2017	CPU	Klaus-D. Ruf	Added cooler kit for 2nd CPU
28.03.2017	PRAID EP520i, 540i, 580i	Fabian Seil	CacheCade deleted
24.03.2017	HD_SSD / S26361-F5583-* / F5648-*	Tatsuya Sudou	removed / Capacity changed
24.03.2017	HD_SSD / Note / M.2 SSD	Tatsuya Sudou	updated
08.03.2017	Chapter 5	Robert Brunnbauer	Update of GFX/GPU options
08.03.2017	CPU	Fabian Seil	specifications and order codes added
07.03.2017	correct: S26361-F3847-E202, -E204	Johannes Linne	Update, changed from E502 / E504 (wrong)
06.03.2017	RAM	Klaus-D. Ruf	Mirrored Channel Mode updated
14.02.2017	Chapter 5 and 6	Robert Brunnbauer	Check GFX/GPU and PCIe options
09.02.2017	Chapter 5	Robert Brunnbauer	Update of GFX/GPU options
09.02.2017	RAID folder updated	Johannes Linne	updated
08.02.2017	Chapter 1	Robert Brunnbauer	Update of base units
07.02.2017	HD_SSD / SED / S26361-F5632-L240	Tatsuya Sudou	note for SED updated / order code corrected
03.02.2017	USB devices	Michail Maridakis	updated
20.01.2017	HD_SSD / S26361-F5648/F5649/F5650-*	Tatsuya Sudou	added
20.01.2017	Chapter 5	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
06.01.2017	HD_SSD / S26361-F5588/F5589-E120/L120	Tatsuya Sudou	removed
06.01.2017	HD_SSD / S26361-F5592/F5593-*	Tatsuya Sudou	removed
26.12.2016	HD_SSD / SED	Tatsuya Sudou	added
19.12.2016	Chapter 5	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
14.12.2016	HD_SSD / S26361-F5635/F5636/F5638-*	Tatsuya Sudou	added
05.12.2016	HD_SSD / S26361-F5630/F5632-*	Tatsuya Sudou	added
25.11.2016	RMK	M. Matsubara	Added RMK w/o CMA (S26361-F2735-E176)
23.11.2016	RAM	Fabian Seil	Order codes corrected
22.11.2016	RAM	Fabian Seil	Mirrored Channel Mode text modified
10.11.2016	IB	Shinho Hayashi	Add Omni Path
08.11.2016	LAN_FC	Ulrich Lösch	Cosmetic: "Link" removed to SFP
08.11.2016	RAID	Johannes Linne	change from 3x to 2x Cougar5 2GB (8 ports),
03.11.2016	S26341-F103-L140	Fabian Seil	changed to new USB Optical Disc Drive
31.10.2016	LAN_FC	Ulrich Lösch	Deleted: LAN I210-T1 LAN 40GbE, and QSFP+
28.10.2016	LAN_FC	Ulrich Lösch	Updated
28.10.2016	HD_SSD	Tatsuya Sudou	updated
24.10.2016	Chapter 1	Robert Brunnbauer	Update of base units
24.10.2016	Chapter 5	Takayuki Sasaki	Modify Graphics- Options in "GFX" tab.
19.09.2016	Chapter 5	Takayuki Sasaki	add Tesla P100, add Tesla M10, modify GRID Software
02.09.2016		Klaus-D. Ruf	Minor description change on RAM page
25.08.2016	RAID draft, PSU	Johannes Linne	added -48V PSU, update RAID draft
23.08.2016		Klaus-D. Ruf	TPM Module update
23.08.2016	Chapter 11	Ulrich Lösch	Deleted Eth Ctrl 2x10GBase-T PCIe x8 X540-T2
23.08.2016	Chapter 11	Ulrich Lösch	Added Blind Panel for Dynamic LoM?
12.08.2016		Klaus-D. Ruf	Memory
12.08.2016		Johannes Linne	RAID
13.07.2016		Atsushi Iwata	Tape devices
30.06.2016		Ulrich Lösch	Ethernet and Fibre Channel Controller
09.06.2016		Robert Brunnbauer	First Draft