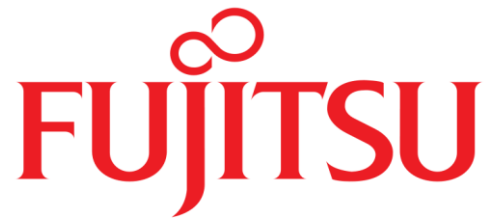


PRIMERGY RX2520 M4
2U Rack Server



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 RX2520 M4
2		describes rack mount kits and services
3	CPU	Order code and Information of E5-26xxv5 series processors
4	RAM	DDR4 System memory (RAM) and memory modes
5	GFX	Graphics options
6	HD_cage	Drive cage 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	USB_devices	Keyboards, Mice, USB devices
16	others	System Management, ATD, RS232 port, TPM module

Instructions

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

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

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

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

Chapter xx - description of chapter

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

S26361-F4610-Exxx (example)
S26361-F4610-Lxxx (example)
PLAN 2x1Gb Ethern. Controller
i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors
PCIe Gen2 x4 full height card
max. 6x per system

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

<-- order code L-part (bold)

<-- "name" of this part

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

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

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

For further information see:

Link to datasheet:

[http:// xxx](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)

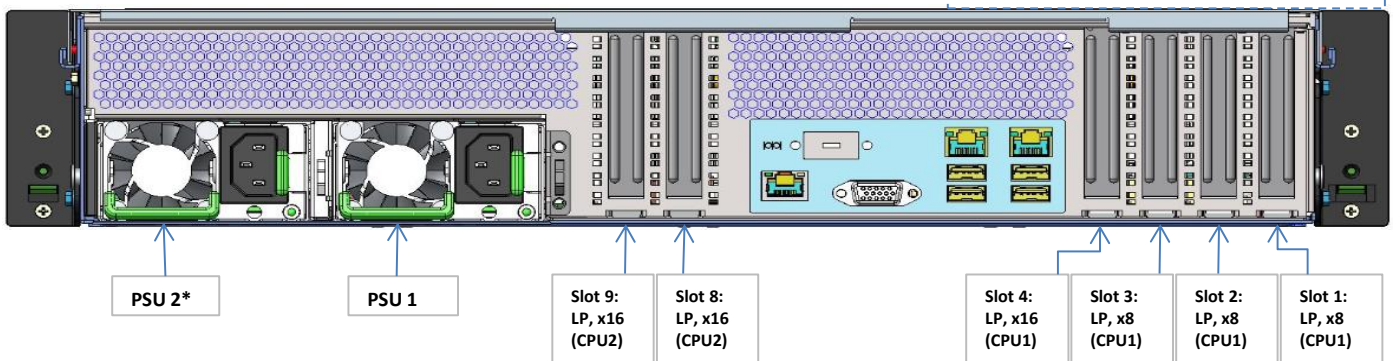
Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage you to inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice

PRIMERGY RX2520 M4 system board overview with fan modules and air guide



PRIMERGY RX2520 M4 rear view with PSUs, PCIe-slots, interfaces

Slot 4: preferred slot for Retimer controller
 Slot 2: preferred slot for 1st RAID controller
 Slot 1: preferred slot for 2nd RAID controller



PRIMERGY RX2520 M4 front views with drive bays, operation panel, ODD, backup options

3.5" hot-plug SAS/SATA

4x 3.5" HDDs



2.5" hot-plug SAS/SATA

8x 2.5" HDDs/SSDs



8x 3.5" HDDs



16x 2.5" HDDs/SSDs



12x 3.5" HDDs



24x 2.5" HDDs/SSDs



! Pictures may include optional components.

Chapter 1 - base unit

Start

Power supply units & cooling

PRIMERGY RX2520 M4 offers bays for 2x (1x optional hot plug redundant) power supply units of 450W and 800W with up to 96% efficiency; It comes equipped with high performance processor heat pipes and -depending on selected configuration- up to 3 redundant, non-hot-plug fan modules (each fan module includes 2 fans).

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 D3386 made in Germany based on Chipset Intel® C624

- > 2 Intel® UltraPath Interconnect (Intel® UPI) point-to-point links
- > Up to two Skylake-SP series CPUs
- > Onboard RAID 0/1 6Gbit/s available for up to 8x SATA drives

Slots

Per default, 6 PCIe slots are on board - please refer to "Description" section

- > 4 PCIe slots low profile, 198 mm length with first CPU:
 - Slot 1: PCIe-Gen3 x8 (occupied in configurations with 2x RAID controllers; notched for installation of a x16 card)
 - Slot 2: PCIe-Gen3 x8 (occupied in configurations with 1x RAID controller; notched for installation of a x16 card)
 - Slot 3: PCIe-Gen3 x8 (notched for installation of a x16 card)
 - Slot 4: PCIe-Gen3 x16
- > 2 PCIe slots low profile, 198 mm length with second CPU:
 - Slot 8: PCIe-Gen3 x16 (occupied in configurations with 1x Retimer controller)
 - Slot 9: PCIe-Gen3 x16 (occupied in configurations with 2x Retimer controllers)

System RAM

- > 12x memory slots for max. 384GB DDR4-2666MHz RAM available (6x RDIMM modules per CPU).
Memory speed depends on CPU and configuration, please refer to folder "CPU" and "RAM" for further details.

LAN

- > 2x 1Gb LAN onboard;

Software

- > Optional ServerView Suite software incl. ServerView Installation Manager, Server View Remote Management and tools.

Connectivity

Interfaces at rear side

- 1x optional RS-232-C (serial port, 9 pin)
- 2x LAN RJ45 (additional 2x RJ45 optionally available)
- 1x service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 4x USB 3.0

Interfaces at front

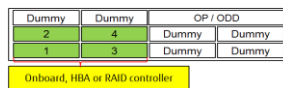
- 2x USB 3.0 (no USB wakeup)

Interfaces internal

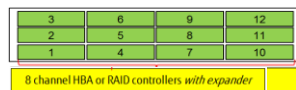
- 1x USB 2.0 for backup devices, 1x USB 3.0 (type A)
- 2x M.2 SATA/PCIe
- 1x connector for TPM, 1x microSD card slot

Base units for 19" racks with 2 height units:
Base units are excluding CPU, Memory and PSU.
For an orderable base unit 1x CPU = first CPU
and 1x Memory = first memory must be selected.

Base units with 3.5" drive bays	
RX2520 M4 / 4x3.5"	S26361-K1599-V304
Expandable to 8x3.5"	
ATD 40°C/45°C option	
RX2520 M4 / 12x3.5"	S26361-K1599-V312
Not expandable	
Incl. SAS expander for 8-channel HBA / RAID controller	
ATD 40°C only / no 45°C option!	



Note: Dummy: Dummy bay bezel OP/ODD: Cage for operation Panel,



Base units with 2.5" drive bays	
RX2520 M4 / 8x2.5" Expandable to 16x-/24x2.5" ATD 40°C/45°C option	S26361-K1599-V208
RX2520 M4 / 16x2.5" Not expandable Without SAS expander, for configuration with: 2x 8-channel HBA or RAID controllers (mirrored), or 16-channel PRAID EP540i ATD 40°C/45°C option	S26361-K1599-V217
RX2520 M4 / 24x2.5" Not expandable Incl. SAS expander for 8-channel HBA / RAID controller ATD 40°C only / no 45°C option!	S26361-K1599-V224
RX2520 M4 / PCIe-SSD 8x2.5" SAS/SATA + 4xPCIe-SSD (2.5") Requires 1x Retimer No upgrade to 8x PCIe-SSD possible ATD 40°C only / no 45°C option!	S26361-K1599-V212

PRIMECENTER Rack



Onboard, HBA or RAID controller



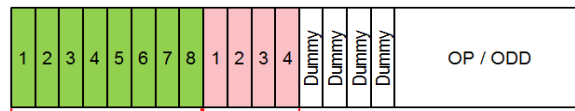
HBA or RAID controller



PRAID EP540i without expander (16 channels)



HBA or RAID controller with expander



HBA or RAID controller

Retimer

Note: _____ **Dummy:**
Dummy bay bezel **OP/ODD:**
Cage for operation Panel,
optional optical disk drive and
backup

Chapter 2 - Rack architecture

PRIMECENTER Rack

Rack Architecture			E-code	L-code	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/CMAAdapter	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 CMAAdapter	S26361-F2735- E176n/a	S26361-F2735-L176	best choice for 3rd party racks -E176 will be available from Sep.-18
Rack Cable Arm 2U	1x	Cable mgmt. arm for 2U or higher	S26361-F2735-E82	S26361-F2735-L82	RMK with CMAAdapter 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 party racks	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 minimum 1 processor, maximum 2 processors.

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

>> 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
ATD 40°C / no 45°C option!		
Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)		
Cooling Kit 2nd CPU	S26361-F3849-E100	
Cooler Kit for 2nd CPU - no ATD		S26361-F4051-L820
Cooler Kit for 2nd CPU - ATD supported		S26361-F4051-L821

C

Chapter 4 - DDR4 System memory

C

Each CPU offers 6 Slots for DDR4 Memory Modules organised in 6 Channels with 2 Memory Controllers (3 Channels each).
If you need more than 6 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).

Mix of RDIMM and RDIMM 3DS is under investigation (currently not allowed).

Supported memory capacities per CPU:
192GB DDR4 RDIMM (6x 32GB 2Rx4)

Supported memory capacities per System:
384GB using RDIMM

The memory speed is independent from the configuration (1DPC) 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-E2	Performance 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 Setup factory preinstalled to this mode. Six identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only three modules contain active data, the remain three modules contain mirrored data.	
Multiple of 6 identical modules to be configured per CPU	

DDR4 rg x8 2666			
8GB (1x8GB) 2Rx8 DDR4-2666 R ECC	S26361-F4026-E118	S26361-F4026-L118	only special release
16GB (1x16GB) 2Rx8 DDR4-2666 R ECC	S26361-F4026-E116	S26361-F4026-L116	only special release
DDR4 rg x4 2666			
8GB (1x8GB) 1Rx4 DDR4-2666 R ECC	S26361-F4026-E208	S26361-F4026-L208	only special release
16GB (1x16GB) 2Rx4 DDR4-2666 R ECC	S26361-F4026-E226	S26361-F4026-L226	
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	
NVDIMM 2666 (will be launched in 2018; not POR for first release)			
128GB (1x128GB) DDR4-2666 NV ECC	TBD	TBD	
256GB (1x256GB) DDR4-2666 NV ECC	TBD	TBD	
512GB (1x512GB) DDR4-2666 NV ECC	TBD	TBD	

D

Detailed information

Mode	Configuration	RDIMM	Use case, advantage
		x4	
SDDC (chipkill) support	any	yes	supports detecting multi-bit errors
Independant channel mode	1 or 2 Modules per Bank	yes	offers max. flexibility, upgradeability, capacity
Mirrored channel mode *)	6 identical Modules / Bank	yes	offers maximum security
Performance mode	6 identical Modules / Bank	yes	offers maximum performance and capacity

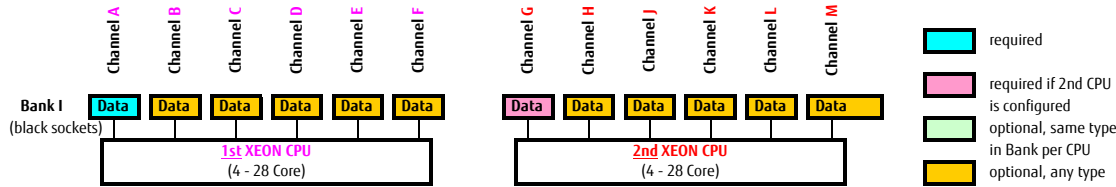
*) For the delivery ex factory the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	RDIMM	Notes
Min. Memory per CPU	1 Module / CPU	1x8GB	with one CPU
Max. Memory per CPU	6 Modules / CPU	192GB	with one CPU
Max. Memory per System	12 Modules / System	384GB	if second CPU is configured

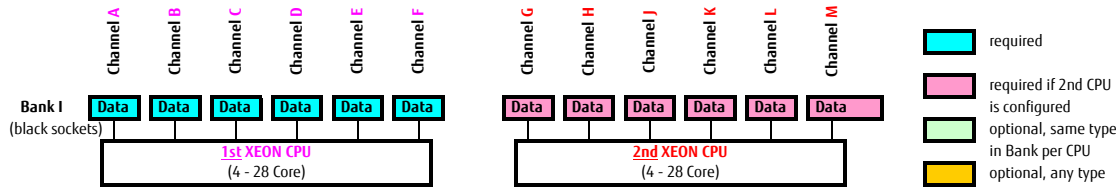
The memory sockets on the Systemboards are color coded

Bank I	black sockets	Bank II	blue sockets
---------------	---------------	----------------	--------------

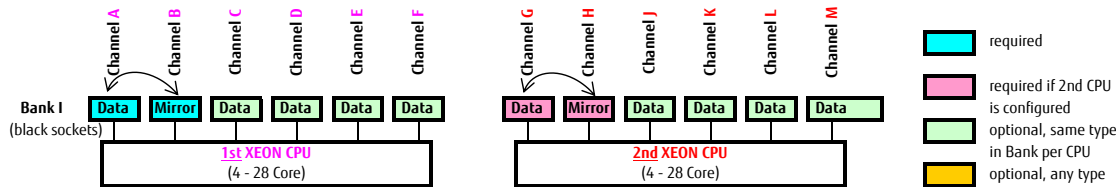
Independant channel mode



Performance Channel Mode

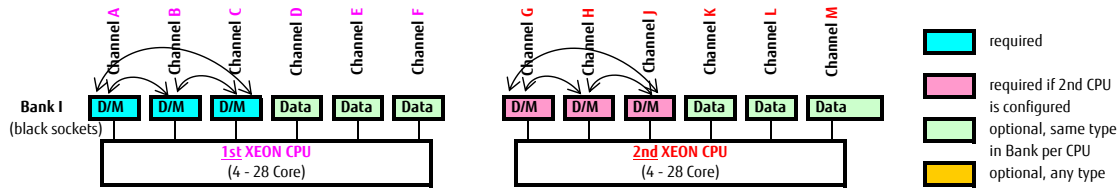


Mirror Channel Mode (2 DIMMS per CPU)



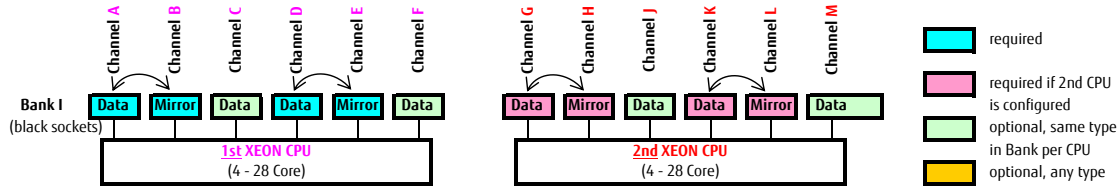
Mirrored Channel Mode (2 DIMMS per CPU) requires identical modules on channel A & B (1st CPU) or channel G & H (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 2 identical modules has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

Mirror Channel Mode (3 DIMMS per CPU)



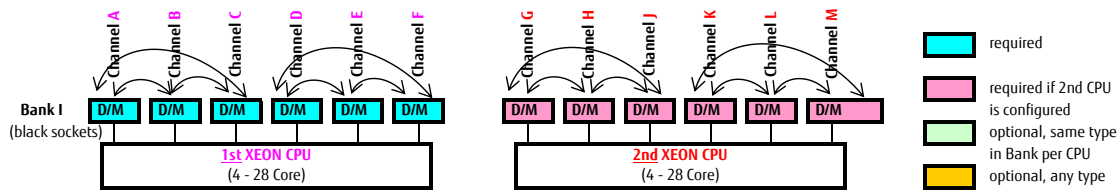
Mirrored Channel Mode (3 DIMMS per CPU) requires identical modules on channel A, B & C (1st CPU) or channel G, H & J (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 3 identical modules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

D

„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 cable must be ordered seperately
Triple head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
Low profile bracket
occupies slot 3 (or 8)
max. 1x per system

The high end optional NVIDIA Quadro graphic card offers triple head operation and fully 3D video support.
Remote Video direction via iRMC must be disabled.
Only one card per server is allowed.

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

E

Chapter 6 - Drive cage options

F

PRIMERGY RX2520 M4 base units provide 3.5" and 2.5" HDD/SSD configurations as shown in "base" section and in the below overview. With HD drive cage options, the maximum amount of HDD-/SSD-drive bays can be increased after purchase of the system. A HD drive cage is a metal box providing bays for 3.5" HDDs, 2.5" HDDs/SSDs or PCIe-SSDs. Please select HD drive cage upgrade kits, depending on the preselected PRIMERGY RX2520 M4 base unit.

Each upgrade kit contains all relevant parts such as the metal cage, backplane, cables and mounting material. Refer to section "RAID" to select the required RAID configuration. Depending on the preselected drive bay configuration, PRIMERGY RX2520 M4 includes 1x 1.6" bay for backup drive and bay for slim 9.5mm optical disk drive. Corresponding options can be selected in sections "ODD" and "backup".

<p>For 4x3.5" base unit (S26361-K1599-V304)</p> <p>Upgrade kit 8x3.5" S26361-F2495-E308 S26361-F2495-L308</p> <p>Not further expandable max. 1x per system</p>	<p>For 8x2.5" base unit (S26361-K1599-V208)</p> <p>Upgrade kit 16x2.5" S26361-F2495-E216 S26361-F2495-L216</p> <p>Expandable to 24x2.5" Including SAS Expander max. 1x per system</p>	<p>For 8x2.5" base unit (S26361-K1599-V208)</p> <p>To PCIe-SSD base unit (S26361-K1599-V212)</p> <p>Upgrade kit 4xPCIe-SSD S26361-F2495-L284</p> <p>Not further expandable Requires Retimer or EP5xx-series RAID controller consuming PCIe slot 4 max. 1x per system</p>
	<p>Upgrade kit 24x2.5" S26361-F2495-L224</p> <p>For upgrade from 8x to 24x2.5" Not further expandable Including SAS Expander max. 1x per system</p>	<p>Upgrade kit 24x2.5" S26361-F2495-L234</p> <p>For upgrade from 16x to 24x2.5" Not further expandable Including SAS Expander max. 1x per system</p>

You did not find your preferred drive cage configuration in this comprehensive list of popular bundles?

--> Please contact our made4you team (mailto:customer.projects@ts.fujitsu.com) for more customer specific solutions or visit us:
<https://partners.ts.fujitsu.com/com/order-supply/General%20information/made4you>
 E.g. 2nd RAID Controller, boot from onboard SATA, 2x non-hot-plug HDD ex factory, ...

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

internal 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	2x	S26361-F3842-E1 S26361-F3842-L501
PSAS CP400i HBA SAS Contr.	No Cache	HBA + RAID 0, 1	2x	S26361-F3842-E2 S26361-F3842-L502
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 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	2x	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 acceleration			2x	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		2x	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 25cm length			2x	S26361-F5243-E125 S26361-F5243-L115
PRAID EP420i RAID Contr.	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	S26361-F5243-E12 S26361-F5243-L12
PRAID EP420i for SafeStore R. Contr.	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	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 acceleration			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 length			2x	S26361-F5243-E155 S26361-F5243-L115

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

internal drive RAID / SAS controllers for E91 and SAS, SATA HDD or SSD drives				
PRAID EP520i RAID Contr. LP	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	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	2x	S26361-F4042-E204 S26361-F4042-L504
PRAID EP580i RAID Contr. LP	8GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	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 (no NVMe support by PRAID EP5xxi in this system) includes Fastpath and SafeStore Advanced SW-Licence 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 length			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

FBU can be combined with Advanced Thermal design up to 45 degree 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:
simultaneous operation of SafeStore or CacheCade + FastPath or is supported, simultaneous 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

HBA controller for ext. drives SAS, SATA HDD or SSD drives				
PSAS CP400e HBA SAS Contr. LP	No Cache	HBA, no RAID	3x	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	4x	S26361-F3847-E202 S26361-F3847-L502
PRAID EP420e for SafeStore LP	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	4x	S26361-F3847-E204 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 acceleration			4x	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 length			2x	S26361-F5243-E155 S26361-F5243-L115

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

sales status VS35

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 length			2x	S26361-F4042-E155 S26361-F4042-L110

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

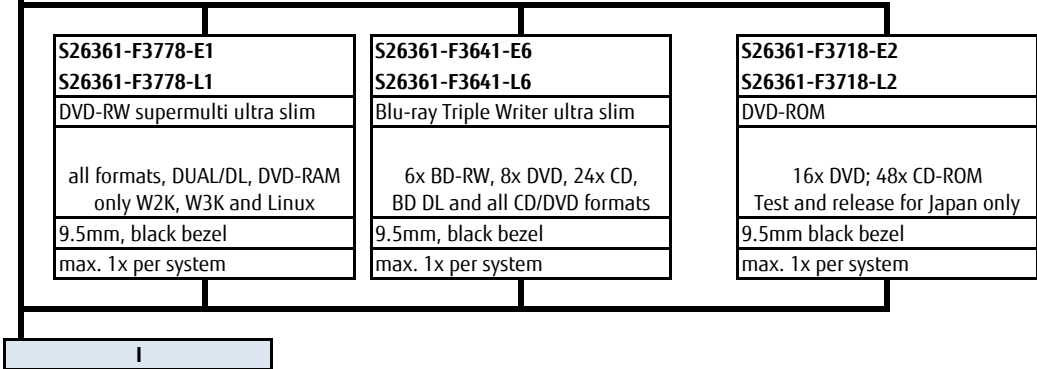
retimer controller for internal 2,5" NVMe SSD PCIe SSD SFF (2,5" NVMe PCIe)				
PPCI CP x16 retimer PTIM CP100i	No Cache	No HW-RAID	1x	S26361-F4048-E201 S26361-F4048-L501
No HW RAID, No Cache, simple route-through incl. Signal enhancement; device management by INTEL VMD divides PCIe3.0 x16 lanes into 4x x4 lanes, supports up to 4x 2.5" PCIe-SSD SFF requires 1x LP PCIe 3.0 x16 (int.) slot				

H

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!

H
Config with 1x 9.5mm bay



Chapter 9 - backup drives

RX2520 M4 offers 1.6" bay for accessible drive for basic units with 8x or 16x 2.5" HDD only!

K
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 cartridges)
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

L

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 (=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) SATA SSD

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	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

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

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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

3.5" (LFF) SATA SSD

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	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

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

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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	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	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 and RDX Drive cage (S26361-F3750-E4) cannot be mixed

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 core dump 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.

2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs require a RAID Controller or PCIe retimer card.
RAID Controller : PRAID EPS20i/540i/580i
PCIe retimer : PPCI CP x16 retimer

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray
based on Intel DC P4610 drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	4.1	S26361-F5737-E160	S26361-F5737-L160
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.7	S26361-F5737-E320	S26361-F5737-L320
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.1	S26361-F5737-E640	S26361-F5737-L640

max. 4x

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							

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Intel DC P4510 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	1.0		S26361-F5738-E100	S26361-F5738-L100
2TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.7		S26361-F5738-E200	S26361-F5738-L200
4TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.8		S26361-F5738-E400	S26361-F5738-L400
max. 4x							

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							

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prel. System configurator and order-information guide
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Chapter 11 - LAN Components

Default: 2x RJ45 1GbE ports on systemboard

1Gb Ethernet network components

1Gb Ethernet controller with RJ45 interface (1000BASE-T)

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 LP	4x	4 port, Intel	S26361-F4610-E204	S26361-F4610-L504

max. 4 Controller per system

10/1Gb Ethernet network components

10GbE-T

10/1Gb Ethernet network adapters with RJ45 interface (10GbE-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 2x10GbE-T LP	2x	2 port NIC with Universal RDMA, Cavium QL4112HLRJ	S26361-F4068-E202	S26361-F4068-L502
PLAN EP QL41134 4x10GbE-T LP	2x	4 port NIC with Universal RDMA, Cavium QL41134HLRJ	S26361-F4068-E204	S26361-F4068-L504
PLAN EP X550-T2 2x10GbE-T LP	4x	2 port NIC, Intel X550-T2	S26361-F3948-E202	S26361-F3948-L502
PLAN EP X710-T4 4x10GbE-T LP	4x	4 port NIC, Intel X710-T4	S26361-F3948-E204	S26361-F3948-L504
PLAN EP OCe14102 2x 10GbE-T LP	2x	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+ LP	2x	2 port NIC with Universal RDMA, Cavium QL41132HLCU	S26361-F4069-E202	S26361-F4069-L502
PLAN EP X710-DA2 2x10Gb SFP+ LP	4x	2 port NIC, Intel X710-DA2	S26361-F3640-E202	S26361-F3640-L502
PLAN EP X710-DA4 4x10Gb SFP+ LP	2x	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	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	2x .. 4x	selected at rack factory installation.	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 EP0Ce14102 from the Converged Ethernet network adapters section.

PLAN EP OCe14102 2x10Gb LP	4x	2 port NIC, Emulex OCe14102	S26361-F5536-E202	S26361-F5536-L502
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optional 10Gb SFP+ module with LC connector for Emulex controller

PCNA SFP+ MMF Modul OCe14102	8x	MMF / SR SFP+ module, up to 400m, Emulex	S26361-F5250-E110	S26361-F5250-E110
Twinax Anschlussplatz Primergy	8x	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	8x	customized cable length	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	8x	(best fitting cable length is defined during rack installation at the factory)	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 LP	2x	2 port CNA with FCoE, iSCSI Offload, Universal RDMA, Cavium QL41262HLCU	S26361-F4070-E202	S26361-F4070-L502
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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	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	2x	selected at rack factory installation.	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 DAG/AOC cables	2x	Enablement for System Architect	V:DAG/AOC-CONNECTOR-25
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors. AOC 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		
25G AOC - Cisco	2x		
25G AOC - Intel	2x		
Max. 2x SFP28, 25G DAC, or 25G AOC per adapter			
max. 2x adapters per system			

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)			
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	S26361-F3989-E600
SFP+ active Twinax Cable Brocade	2x	(best fitting cable length is defined during rack installation at the factory)	S26361-F3873-E500
see table at the bottom of this page			
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 LP	2x	2 port NIC with Universal RDMA: iWARP & RoCE, Cavium QL41212	S26361-F4056-E202	S26361-F4056-L502
PLAN EP MCX4-LX 25Gb 2p SFP28 LP	2x	2 port NIC with RDMA: RoCE, Mellanox ConnectX4-LX	S26361-F4054-E202	S26361-F4054-L502
PLAN EP XXV710-DA2 2x25Gb LP	2x	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 selected at rack factory installation.	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	2x		S26361-F3873-E500	
Max. 2x SFP+, DAC, or Twinax Cable per adapter				
max. 6x 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 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 bottom 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 LP	2x	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 SR4 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	test only and purchase from switch vendors		
40G DAC - Mellanox	2x	test only and purchase from switch vendors		
40G AOC - Cisco	2x	test only and purchase from switch vendors		
40G AOC - Mellanox	2x	test only and purchase from switch vendors		
rmax. 2x QSFP or DAC, AOC per PLAN EP MCX4-EN 40Gb 2p QSFP				
max. 2x 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 LP	2x	Single Port NIC, RoCE RDMA,	S26361-F4057-E201	S26361-F4057-L501
PLAN EP MCX4-EN 100Gb 1p QSFP28 LP	2x	Single Port NIC, RoCE RDMA,	S26361-F4052-E201	S26361-F4052-L501
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector. Each cage consumes one.				
QSFP28 100G SR4 MPO 850nm 100m MMA1800-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	test only and purchase from switch vendors		
100G DAC - Mellanox	1x	test only and purchase from switch vendors		
100G AOC - Cisco	1x	test only and purchase from switch vendors		
100G AOC - Mellanox	1x	test only and purchase from switch vendors		
Max. 1x QSFP28 or DAC/AOC Cable per adapter				
max. 4x adapters				

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System configurator and order-information guide
PRIMERGY RX2520 M4 Status 2016-03-31

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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 (OM3 or OM4)					
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 32, 16, and 8Gbps.					
PFC EP LPe32000 1x 32Gb LP	2x	1 port, low profile, Broadcom/Emulex	S26361-F4044-E201	S26361-F4044-L501	
PFC EP LPe32002 2x 32Gb LP	2x	2 port, low profile, Broadcom/Emulex	S26361-F4044-E202	S26361-F4044-L502	
PFC EP OLE2740 1x 32Gb LP	3x	1 port, low profile, Cavium/Ologic	S26361-F4043-E201	S26361-F4043-L501	
PFC EP OLE2742 2x 32Gb LP	3x	2 port, low profile, Cavium/Ologic	S26361-F4043-E202	S26361-F4043-L502	

16Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)					
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 16, 8, and 4Gbps.					
PFC EP LPe31000 1x 16Gb LP	3x	1 port, low profile, Broadcom/Emulex	S26361-F5596-E201	S26361-F5596-L501	
PFC EP LPe31002 2x 16Gb LP	3x	2 port, low profile, Broadcom/Emulex	S26361-F5596-E202	S26361-F5596-L502	
PFC EP OLE2690 1x 16Gb LP	3x	1 port, low profile, Cavium/Ologic	S26361-F5580-E201	S26361-F5580-L501	
PFC EP OLE2692 2x 16Gb LP	3x	2 port, low profile, Cavium/Ologic	S26361-F5580-E202	S26361-F5580-L502	

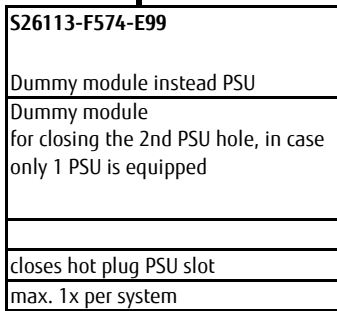
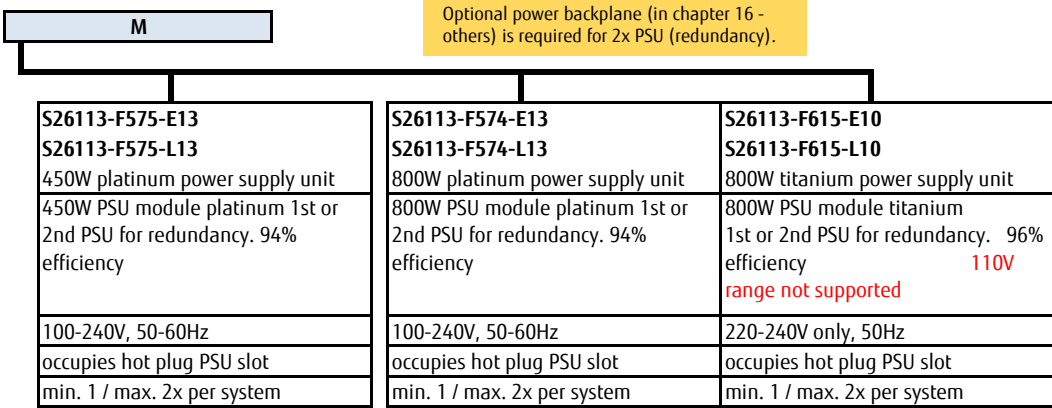
max. 6 Controller per system (mixed configurations are supported)

Chapter 13 - Infiniband Controllers

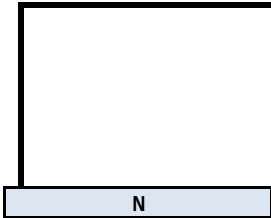
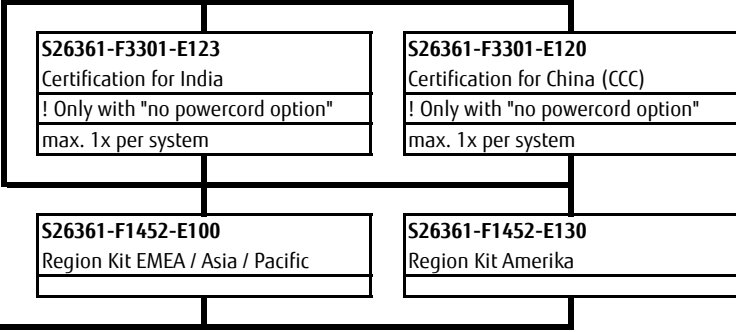
Infiniband and Omni Path controller will be released by Project Released.

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



Power cord option for Rack Server, 4m, grey (1x per PSU)	
T26139-Y1968-E100	Powercord for rack, IEC 320 C14 connector
T26139-Y1742-E10	USA, Canada, 1.8m, black
T26139-Y3850-E10	no power cord



Chapter 15 - 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
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Chapter 16 - others

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S26361-F3699-E20
S26361-F3699-L20
Redundant power supply
Power backplane for redundant power supply units.
Contains power backplane, cables.
max. 1x per system

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

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
for a RS-232-C Serial Port interface
max. 1x per system

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Your Server is ready

Date of change [dd.mm.yyyy]	Folder / order code / description	Name	What has been changed / comment
03.02.2017	PRIMERGY RX2520 M4 configurator	Michail Maridakis	First draft issued
07.02.2017	RAM	Fabian Seil	Update
10.02.2017	RAID folder update	Johannes Linne	Update
10.02.2017	HD_SSD	Tatsuya Sudou	Updated
14.02.2017	RAM	Fabian Seil	Update
14.02.2017	FC, LAN	Ulrich Lösch	Aligned to Component PAPs
14.02.2017	LOM	Ulrich Lösch	Aligned to PAP: No Dynamic LoM interface cards
14.02.2017	RAM	Klaus-Dieter Ruf	Descriptions updated
20.02.2017	FC, LAN	Ulrich Lösch	Correction: FH components deleted
07.03.2017	correct: S26361-F3847-E202, -E204	Johannes Linne	Update, changed from E502 / E504 (wrong)
08.03.2017	CPU	Fabian Seil	order codes and specifications added
16.03.2017	RAM	Fabian Seil	Mirrored Channel Mode updated
22.03.2017	HD_SSD	Tatsuya Sudou	Updated
28.03.2017	PRAID EP520i, 540i, 580i	Fabian Seil	CacheCade deleted
30.03.2017	S26361-F5243-E14/L14	Fabian Seil	comment added
30.03.2017	S26361-F3849-E100	Fabian Seil	cooling kit added
04.04.2017	RAM	Fabian Seil	Mirrored Channel Mode text modified
05.04.2017	RAM	Fabian Seil	info-text updated
06.04.2017	LAN	Ulrich Lösch	Deleted: PCNA EP OCec14102 2x 10Gb DMF LP. No
12.04.2017	eLCM	M.Maridakis	Added in "Others" sheet
27.04.2017	USB Devices	M.Maridakis	New ext. ODD added
27.04.2017	PLAN EP QL45212	U.Lösch	Update
09.05.2017	S26361-F3552-E101	Fabian Seil	added
09.05.2017	RAM	Fabian Seil	new order codes added
10.05.2017	GFX	Sasaki Takayuki	Updated
11.05.2017	IB	Hayashi,Shinho	Special release ⇒ Project Release
16.05.2017	S26361-F4026-E464/L464	Fabian Seil	added
16.05.2017	HD_SSD / 2.5" (SFF) PCIe-SSD	Tatsuya Sudou	added
17.05.2017	S26361-F4026-E464/L464	Fabian Seil	deleted
06.06.2017	HD_SSD / Note	Tatsuya Sudou	updated
08.06.2017	S26361-F3845-E201	Johannes Linne	changed from 2x to 3x PSAS CP400e
08.06.2017	CPU	Fabian Seil	order codes of loose components added
13.06.2017	RAID	Fabian Seil	descriptions of FBU options changed
29.06.2017	RAID	Fabian Seil	FBU Update
07.07.2017	RAID: S26361-F5243-E155	Johannes Linne	FBU Update: change to 55cm FBU length
10.07.2017	others	Sven Pilz	Adjusted ATD order codes
12.07.2017	RAID	Fabian Seil	info-text added
20.07.2017	HD_SSD / S26361-F5648-* / PCIe SSD	Tatsuya Sudou	codes modified / DWPD corrected
20.07.2017	LAN	Ulrich Lösch	Added: 10GbE Ethernet Adapter X710-DA4 4-Port, Intel
24.07.2017	HD_SSD / F5673/F5675-* / F5531/F5532-E590	Tatsuya Sudou	added / F5588/F5589-E240/E480 removed
02.08.2017	Base units / HD-cages	M.Maridakis	Added *-F2495-E308/-E216, deleted *-K1599-V308/-
02.08.2017	LAN	Ulrich Lösch	Added: PLAN EP MCX4-Lx/EN 25/40/100GbE
08.08.2017	HD_SSD / S26361-F5650-*	Tatsuya Sudou	removed
01.09.2017	PSU 1200W	Robert Brunnbauer	removed
01.09.2017	PCIe SSD	Robert Brunnbauer	max 4x
01.09.2017	Retimer	Robert Brunnbauer	max 1x
05.09.2017	HD_SSD / Note	Tatsuya Sudou	removed for 2.5" 7.2K/15K HDD / added for M.2 drive
18.10.2017	S26361-K1599-V312 -V224 -V212	Robert Brunnbauer	ATD 40°C only / no 45°C option!
19.10.2017	HD_SSD / S26361-F4045-E64	Tatsuya Sudou	added
20.10.2017	LAN_FC_IB	Atsushi Iwata	removed all IB and Omni Path. released by Project
24.10.2017	LAN	Ulrich Lösch	Added: 25GbE Ethernet Adapter and SFPs, Intel
25.10.2017	RAID	Anna Spörl	note in Z59551 changed
13.11.2017	HD_SSD	Tatsuya Sudou	note for Dual microSD and DWPD for PCIe-SSD modified
12.01.2018	S26361-F5243-E155	Johannes Linne	FBU cable must be 55cm
15.01.2018	HD_SSD / F5694/F5692-* / F5543/F5582	Tatsuya Sudou	/F5569-E124 / F5571/F5624/F3904-E120 added
15.01.2018	HD_SSD / exclusions for	Tatsuya Sudou	8/10TB HDDs and PSAS CP400i/PRAID EP540i modified
16.01.2018	RAID controller section	Tatsuya Sudou	FBU and ATD comment adjusted
13.02.2018	LAN	Ulrich Lösch	PLAN EP QL41212 & QL45611 added
02.03.2018	HD_SSD / S26361-F5701/F5700/F5706-*	Tatsuya Sudou	added
21.03.2018	FC	Ulrich Lösch	QLE274X max = 3, up from 2
21.03.2018	LAN	Ulrich Lösch	SFP28 S26361-F4055-E/L701 added for PLAN EP
19.04.2018	RAID w/o NVMe	Robert Brunnbauer	No NVMe support with PRAID EP 5x0i in RX2520 M4
19.04.2018	LAN	Ulrich Lösch	Added: PLAN EP X710-T4 4x10GBASE-T
17.05.2018	HD_SSD / F4064-*	Yuichi Sugiyama	added the Dual M.2

18.05.2018	Rack Mount Kit	Kouji Takahashi	added the comment of S26361-F2735-E176
23.05.2018	HD_SSD // Dual M.2	Yuichi Sugiyama	revised the description for Vmware
24.05.2018	RAID	Johannes Linne	reformatting comments etc.
25.06.2018	HD_SSD / S26361-F5707-* / M.2 for	Yuichi Sugiyama	added
29.06.2018	RAID	Johannes Linne	added PRAID EP540e (VS35), changed FBU cable length to 55mm for all PRAID EPxxx
04.07.2018	RAID	Johannes Linne	edited PTIM CP1001 & order code
11.07.2017	GFX	Sasaki Takayuki	Updated
01.08.2018	HD_SSD / Dual M.2	Tatsuya Sudou	Notes updated
23.08.2018	LAN / S26361-F4068-E202, L502	Ulrich Lösch	Added: PLAN EP QL41112 2x10GBASE-T LP
23.08.2018	LAN / S26361-F4068-E204, L504	Ulrich Lösch	Added: PLAN EP QL41134 4x10GBASE-T LP
23.08.2018	LAN / S26361-F4069-E202, L502	Ulrich Lösch	Added: PLAN EP QL41132 2x10Gb SFP+ LP
23.08.2018	LAN / S26361-F4070-E202, L502	Ulrich Lösch	Added: PCNA EP QL41262 2x10/25Gb SFP+/SFP28 LP
23.08.2018	LAN	Ulrich Lösch	Cosmetic changes: 25G Ethernet section
30.08.2018	LAN	Ulrich Lösch	LAN / Typo max 2 --> 2 / 4 / 6
18.09.2018	GFX	Takayuki Sasaki	Modify Graphic Card - Options in "GFX" tab. - add "DP- DVI/D" adapter
11.10.2018	HD_SSD / S26361-F5588/F5589-E384/L384	Yuichi Sugiyama	Added: SSD SATA 2.5" & 3.5" Mixed-Use 3.84TB
12.10.2018	HD_SSD / S26361-F5588/F5589-E384/L384	Yuichi Sugiyama	Cleared the highlight of the cells as yellow
26.10.2018	HD_SSD / HD_SSD / exclusions for 8/10TB	Yuichi Sugiyama	removed
29.10.2018	HD_SSD / S26361-F5635/F5638-E800/L800	Yuichi Sugiyama	added
13.02.2019	HD_SSD / S26361-F3907-* / added the	Yuichi Sugiyama	added the exclusion for HDD SATA 2.5" 7.2K 512e and PRAID
02.07.2019	HD_SSD / S26361-F5737/F5738-* / added	Yuichi Sugiyama	added PCIe-SSD 2.5"
26.07.2019	HD_SSD / S26361-F5737/F5738-* / updated	Yuichi Sugiyama	removed the description as "as soon as available"
06.12.2019	HD_SSD	Yuichi Sugiyama	updated the description about Hard Disk Sector Format